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22 January 2015

Naomi Azulai  
Maralex  
PO Box 338  
Ignacio, CO 81137  
RE: Garfield II Evap. Pit

Enclosed are the results of analyses for samples received by the laboratory on 01/06/15 08:00.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Debbie Zufelt". The signature is written in a cursive, flowing style.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water



Maralex PO Box 338 Ignacio CO, 81137	Project: Garfield II Evap. Pit Project Name / Number: [none] Project Manager: Naomi Azulai	Reported: 01/22/15 10:01
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sump @ 12	1501015-01	Solid	01/05/15 09:10	01/06/15 08:00
SW Corner	1501015-02	Solid	01/05/15 10:10	01/06/15 08:00
NE Corner	1501015-03	Solid	01/05/15 10:30	01/06/15 08:00
BG Comp.	1501015-04	Solid	01/05/15 11:00	01/06/15 08:00
SE Corner	1501015-05	Solid	01/05/15 11:20	01/06/15 08:00

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Debbie Zufelt, Reports Manager

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Maralex PO Box 338 Ignacio CO, 81137	Project: Garfield II Evap. Pit Project Name / Number: [none] Project Manager: Naomi Azulai	Reported: 01/22/15 10:01
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**Sump @ 12**

**1501015-01 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Conductivity	760			umhos/cm	1	01/14/15	ASA#9 10-3.3		ACH
pH	8.06			pH Units	1	01/14/15	ASA#9 12-2.6		ACH

**Subcontracted -- Cardinal Laboratories**

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.004	mg/kg	50	01/15/15	8021B		CK
Toluene*	<0.050	0.050	0.015	mg/kg	50	01/15/15	8021B		CK
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	01/15/15	8021B		CK
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	01/15/15	8021B		CK
Total BTEX	<0.300	0.300		mg/kg	50	01/15/15	8021B		CK

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 61-154 01/15/15 8021B CK

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	01/13/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	01/13/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	01/13/15	8015B		MS

Surrogate: 1-Chlorooctane 94.8 % 47.2-157 01/13/15 8015B MS

Surrogate: 1-Chlorooctadecane 97.4 % 52.1-176 01/13/15 8015B MS

Green Analytical Laboratories

*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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Maralex PO Box 338 Ignacio CO, 81137	Project: Garfield II Evap. Pit Project Name / Number: [none] Project Manager: Naomi Azulai	Reported: 01/22/15 10:01
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**Sump @ 12**

**1501015-01 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

**Semivolatile Organic Compounds by GCMS**

Naphthalene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
2-Methylnaphthalene	<0.034	0.040	0.034	mg/kg	40	01/20/15	8270C		ms
1-Methylnaphthalene	<0.034	0.040	0.034	mg/kg	40	01/20/15	8270C		ms
Acenaphthylene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Acenaphthene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Fluorene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Phenanthrene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Carbazole	<0.004	0.040	0.004	mg/kg	40	01/20/15	8270C		ms
Fluoranthene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Pyrene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Benzo[a]anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Chrysene	<0.005	0.040	0.005	mg/kg	40	01/20/15	8270C		ms
Benzo[b]fluoranthene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Benzo[k]fluoranthene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Benzo[a]pyrene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Indeno[1,2,3-cd]pyrene	<0.001	0.040	0.001	mg/kg	40	01/20/15	8270C		ms
Dibenz[a,h]anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Benzo[g,h,i]perylene	<0.001	0.040	0.001	mg/kg	40	01/20/15	8270C		ms
Surrogate: Nitrobenzene-d5			65.2 %	20.4-109		01/20/15	8270C		ms
Surrogate: 2-Fluorobiphenyl			66.8 %	23.4-133		01/20/15	8270C		ms
Surrogate: Terphenyl-dl4			70.3 %	38.4-163		01/20/15	8270C		ms

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Maralex PO Box 338 Ignacio CO, 81137	Project: Garfield II Evap. Pit Project Name / Number: [none] Project Manager: Naomi Azulai	Reported: 01/22/15 10:01
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**SW Corner**

**1501015-02 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Conductivity	9150			umhos/cm	1	01/14/15	ASA#9 10-3.3		ACH
pH	8.83			pH Units	1	01/14/15	ASA#9 12-2.6		ACH

Subcontracted -- **Cardinal Laboratories**

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.004	mg/kg	50	01/15/15	8021B		CK
Toluene*	<0.050	0.050	0.015	mg/kg	50	01/15/15	8021B		CK
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	01/15/15	8021B		CK
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	01/15/15	8021B		CK
Total BTEX	<0.300	0.300		mg/kg	50	01/15/15	8021B		CK

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 61-154 01/15/15 8021B CK

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	01/13/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	01/13/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	01/13/15	8015B		MS

Surrogate: 1-Chlorooctane 94.3 % 47.2-157 01/13/15 8015B MS

Surrogate: 1-Chlorooctadecane 96.7 % 52.1-176 01/13/15 8015B MS

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**SW Corner**

**1501015-02 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- **Cardinal Laboratories**

**Semivolatile Organic Compounds by GCMS**

Naphthalene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
2-Methylnaphthalene	<0.034	0.040	0.034	mg/kg	40	01/20/15	8270C		ms
1-Methylnaphthalene	<0.034	0.040	0.034	mg/kg	40	01/20/15	8270C		ms
Acenaphthylene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Acenaphthene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Fluorene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Phenanthrene	<b>0.006</b>	0.040	0.002	mg/kg	40	01/20/15	8270C	J	ms
Anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Carbazole	<0.004	0.040	0.004	mg/kg	40	01/20/15	8270C		ms
Fluoranthene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Pyrene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Benzo[a]anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Chrysene	<0.005	0.040	0.005	mg/kg	40	01/20/15	8270C		ms
Benzo[b]fluoranthene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Benzo[k]fluoranthene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Benzo[a]pyrene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Indeno[1,2,3-cd]pyrene	<0.001	0.040	0.001	mg/kg	40	01/20/15	8270C		ms
Dibenz[a,h]anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Benzo[g,h,i]perylene	<0.001	0.040	0.001	mg/kg	40	01/20/15	8270C		ms
Surrogate: Nitrobenzene-d5			63.2 %	20.4-109		01/20/15	8270C		ms
Surrogate: 2-Fluorobiphenyl			61.8 %	23.4-133		01/20/15	8270C		ms
Surrogate: Terphenyl-d14			72.0 %	38.4-163		01/20/15	8270C		ms

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**NE Corner**

**1501015-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Conductivity	5540			umhos/cm	1	01/14/15	ASA#9 10-3.3		ACH
pH	7.62			pH Units	1	01/14/15	ASA#9 12-2.6		ACH

Subcontracted -- **Cardinal Laboratories**

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.004	mg/kg	50	01/15/15	8021B		CK
Toluene*	<0.050	0.050	0.015	mg/kg	50	01/15/15	8021B		CK
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	01/15/15	8021B		CK
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	01/15/15	8021B		CK
Total BTEX	<0.300	0.300		mg/kg	50	01/15/15	8021B		CK

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61-154 01/15/15 8021B CK

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	01/14/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	01/14/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	01/14/15	8015B		MS

Surrogate: 1-Chlorooctane 96.6 % 47.2-157 01/14/15 8015B MS

Surrogate: 1-Chlorooctadecane 116 % 52.1-176 01/14/15 8015B MS

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Maralex PO Box 338 Ignacio CO, 81137	Project: Garfield II Evap. Pit Project Name / Number: [none] Project Manager: Naomi Azulai	Reported: 01/22/15 10:01
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**NE Corner**

**1501015-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

**Semivolatile Organic Compounds by GCMS**

Naphthalene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
2-Methylnaphthalene	<0.034	0.040	0.034	mg/kg	40	01/20/15	8270C		ms
1-Methylnaphthalene	<0.034	0.040	0.034	mg/kg	40	01/20/15	8270C		ms
Acenaphthylene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Acenaphthene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Fluorene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Phenanthrene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Carbazole	<0.004	0.040	0.004	mg/kg	40	01/20/15	8270C		ms
Fluoranthene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Pyrene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Benzo[a]anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Chrysene	<0.005	0.040	0.005	mg/kg	40	01/20/15	8270C		ms
Benzo[b]fluoranthene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Benzo[k]fluoranthene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Benzo[a]pyrene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Indeno[1,2,3-cd]pyrene	<0.001	0.040	0.001	mg/kg	40	01/20/15	8270C		ms
Dibenz[a,h]anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Benzo[g,h,i]perylene	<0.001	0.040	0.001	mg/kg	40	01/20/15	8270C		ms
Surrogate: Nitrobenzene-d5			69.1 %	20.4-109		01/20/15	8270C		ms
Surrogate: 2-Fluorobiphenyl			68.8 %	23.4-133		01/20/15	8270C		ms
Surrogate: Terphenyl-d14			76.3 %	38.4-163		01/20/15	8270C		ms

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Debbie Zufelt, Reports Manager

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**BG Comp.**

**1501015-04 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	84.9			%	1	01/08/15	EPA160.3		LLG
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**Total Metals by ICP**

Barium	206	1.00	0.368	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.125	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Chromium	11.6	5.00	0.767	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Copper	8.58	2.00	0.603	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Lead	<10.0	10.0	1.95	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Nickel	13.5	5.00	1.27	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Selenium	<20.0	20.0	3.38	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Silver	<5.00	5.00	0.212	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Zinc	48.6	1.00	0.699	mg/kg dry	100	01/09/15	EPA6010 B		JGS

**Total Metals by ICPMS**

Arsenic	2.88	0.500	0.202	mg/kg dry	1000	01/12/15	6020 A		JGS
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**Total Mercury by CVAA**

Mercury	<0.114	0.114	0.0215	mg/kg dry	485	01/13/15	EPA7471		JGS
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**Hot Water Extractable**

Boron	<1.50	1.50	0.163	mg/kg dry	5	01/13/15	EPA200.7		JGS
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**SE Corner**

**1501015-05 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

% Dry Solids	85.4			%	1	01/08/15	EPA160.3		LLG
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**Saturated Paste Extraction**

Calcium	21.5	10.0	0.039	mg/L	10	01/15/15	EPA200.7		JGS
Conductivity	16500			umhos/cm	1	01/14/15	ASA#9 10-3.3		ACH
Magnesium	<10.0	10.0	0.190	mg/L	10	01/15/15	EPA200.7		JGS
pH	8.72			pH Units	1	01/14/15	ASA#9 12-2.6		ACH
SAR	180			[blank]	1	01/15/15	Calculation		JGS
Sodium	3630	20.0	0.041	mg/L	10	01/15/15	EPA200.7		JGS

**Total Metals by ICP**

Barium	296	1.00	0.368	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.125	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Chromium	15.0	5.00	0.767	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Copper	8.89	2.00	0.603	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Lead	10.0	10.0	1.95	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Nickel	16.7	5.00	1.27	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Selenium	<20.0	20.0	3.38	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Silver	<5.00	5.00	0.212	mg/kg dry	100	01/09/15	EPA6010 B		JGS
Zinc	48.4	1.00	0.699	mg/kg dry	100	01/09/15	EPA6010 B		JGS

**Total Metals by ICPMS**

Arsenic	3.67	0.500	0.202	mg/kg dry	1000	01/12/15	6020 A		JGS
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**Total Mercury by CVAA**

Mercury	<0.116	0.116	0.0218	mg/kg dry	495	01/13/15	EPA7471		JGS
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**SE Corner**

**1501015-05 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Hot Water Extractable**

<b>Boron</b>	<b>49.6</b>	1.50	0.163	mg/kg dry	5	01/13/15	EPA200.7		JGS
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Subcontracted -- **Cardinal Laboratories**

**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<0.050	0.050	0.004	mg/kg	50	01/15/15	8021B		CK
<b>Toluene*</b>	<0.050	0.050	0.015	mg/kg	50	01/15/15	8021B		CK
<b>Ethylbenzene*</b>	<0.050	0.050	0.008	mg/kg	50	01/15/15	8021B		CK
<b>Total Xylenes*</b>	<0.150	0.150	0.018	mg/kg	50	01/15/15	8021B		CK
<b>Total BTEX</b>	<0.300	0.300		mg/kg	50	01/15/15	8021B		CK

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 61-154 01/15/15 8021B CK

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10</b>	<10.0	10.0	1.30	mg/kg	1	01/14/15	8015B		MS
<b>DRO &gt;C10-C28</b>	<10.0	10.0	2.91	mg/kg	1	01/14/15	8015B		MS
<b>EXT DRO &gt;C28-C35</b>	<10.0	10.0	2.91	mg/kg	1	01/14/15	8015B		MS

Surrogate: 1-Chlorooctane 92.0 % 47.2-157 01/14/15 8015B MS

Surrogate: 1-Chlorooctadecane 108 % 52.1-176 01/14/15 8015B MS

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SE Corner

1501015-05 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Naphthalene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
2-Methylnaphthalene	<0.034	0.040	0.034	mg/kg	40	01/20/15	8270C		ms
1-Methylnaphthalene	<0.034	0.040	0.034	mg/kg	40	01/20/15	8270C		ms
Acenaphthylene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Acenaphthene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Fluorene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Phenanthrene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Carbazole	<0.004	0.040	0.004	mg/kg	40	01/20/15	8270C		ms
Fluoranthene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Pyrene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Benzo[a]anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Chrysene	<0.005	0.040	0.005	mg/kg	40	01/20/15	8270C		ms
Benzo[b]flouranthene	<0.003	0.040	0.003	mg/kg	40	01/20/15	8270C		ms
Benzo[k]flouranthene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Benzo[a]pyrene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Indeno[1,2,3-cd]pyrene	<0.001	0.040	0.001	mg/kg	40	01/20/15	8270C		ms
Dibenz[a,h]anthracene	<0.002	0.040	0.002	mg/kg	40	01/20/15	8270C		ms
Benzo[g,h,i]perylene	<0.001	0.040	0.001	mg/kg	40	01/20/15	8270C		ms
Surrogate: Nitrobenzene-d5			65.1 %	20.4-109		01/20/15	8270C		ms
Surrogate: 2-Fluorobiphenyl			64.2 %	23.4-133		01/20/15	8270C		ms
Surrogate: Terphenyl-dl4			77.8 %	38.4-163		01/20/15	8270C		ms

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**Saturated Paste Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B501117 - General Prep - Wet Chem**

Duplicate (B501117-DUP1)	Source: 1501015-05		Prepared: 01/13/15 Analyzed: 01/14/15		
Conductivity	16800	umhos/cm	16500	1.50	20
pH	8.75	pH Units	8.72	0.343	20

**Batch B501123 - Dissolved Metals, E200.7/E200.8**

Duplicate (B501123-DUP1)	Source: 1501015-05		Prepared & Analyzed: 01/15/15		
Calcium	21.0	10.0 mg/L	21.5	2.09	20
Magnesium	4.94	10.0 mg/L	5.74	14.9	20
Sodium	3680	20.0 mg/L	3630	1.27	20

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**Total Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B501073 - EPA 3050**

**Blank (B501073-BLK1)**

Prepared & Analyzed: 01/09/15

Barium	ND	0.010	mg/kg dry							
Cadmium	ND	0.050	mg/kg dry							
Chromium	ND	0.050	mg/kg dry							
Copper	ND	0.020	mg/kg dry							
Lead	ND	0.100	mg/kg dry							
Nickel	ND	0.050	mg/kg dry							
Selenium	ND	0.200	mg/kg dry							
Silver	ND	0.050	mg/kg dry							
Zinc	ND	0.010	mg/kg dry							

**LCS (B501073-BS1)**

Prepared & Analyzed: 01/09/15

Barium	1.87	0.010	mg/kg dry	2.00		93.7	85-115			
Cadmium	1.91	0.050	mg/kg dry	2.00		95.4	85-115			
Chromium	1.95	0.050	mg/kg dry	2.00		97.5	85-115			
Copper	4.03	0.020	mg/kg dry	4.00		101	85-115			
Lead	1.95	0.100	mg/kg dry	2.00		97.5	85-115			
Nickel	1.87	0.050	mg/kg dry	2.00		93.5	85-115			
Selenium	7.69	0.200	mg/kg dry	8.00		96.1	85-115			
Silver	0.098	0.050	mg/kg dry	0.100		98.3	85-115			
Zinc	1.82	0.010	mg/kg dry	2.00		90.9	85-115			

**LCS Dup (B501073-BSD1)**

Prepared & Analyzed: 01/09/15

Barium	1.86	0.010	mg/kg dry	2.00		93.0	85-115	0.823	20	
Cadmium	1.82	0.050	mg/kg dry	2.00		91.2	85-115	4.50	20	
Chromium	1.94	0.050	mg/kg dry	2.00		97.0	85-115	0.528	20	
Copper	3.99	0.020	mg/kg dry	4.00		99.6	85-115	1.09	20	
Lead	1.93	0.100	mg/kg dry	2.00		96.5	85-115	0.977	20	
Nickel	1.86	0.050	mg/kg dry	2.00		92.9	85-115	0.703	20	
Selenium	7.66	0.200	mg/kg dry	8.00		95.8	85-115	0.294	20	
Silver	0.094	0.050	mg/kg dry	0.100		93.6	85-115	4.86	20	
Zinc	1.81	0.010	mg/kg dry	2.00		90.5	85-115	0.448	20	

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**Total Metals by ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B501096 - EPA 3050M**

<b>Blank (B501096-BLK1)</b>										
Prepared & Analyzed: 01/12/15										
Arsenic	ND	0.0005	mg/kg dry							
<b>LCS (B501096-BS1)</b>										
Prepared & Analyzed: 01/12/15										
Arsenic	0.0528	0.0005	mg/kg dry	0.0500		106	85-115			
<b>LCS Dup (B501096-BSD1)</b>										
Prepared & Analyzed: 01/12/15										
Arsenic	0.0525	0.0005	mg/kg dry	0.0500		105	85-115	0.695	20	

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**Total Mercury by CVAA - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B501102 - EPA 7471**

<b>Blank (B501102-BLK1)</b>				Prepared & Analyzed: 01/13/15						
Mercury	ND	0.0002	mg/kg wet							
<b>LCS (B501102-BS1)</b>				Prepared & Analyzed: 01/13/15						
Mercury	0.0023	0.0002	mg/kg wet	0.00200		115	85-115			
<b>LCS Dup (B501102-BSD1)</b>				Prepared & Analyzed: 01/13/15						
Mercury	0.0022	0.0002	mg/kg wet	0.00200		109	85-115	5.08	20	

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**Hot Water Extractable - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B501107 - Dissolved Metals, E200.7/E200.8**

<b>Blank (B501107-BLK1)</b>				Prepared & Analyzed: 01/13/15						
Boron	ND	0.300	mg/kg dry							
<b>LCS (B501107-BS1)</b>				Prepared & Analyzed: 01/13/15						
Boron	4.85	0.300	mg/kg dry	5.00		97.0	85-115			
<b>LCS Dup (B501107-BSD1)</b>				Prepared & Analyzed: 01/13/15						
Boron	4.77	0.300	mg/kg dry	5.00		95.3	85-115	1.71	20	

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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5011314 - Volatiles**

**Blank (5011314-BLK1)**

Prepared: 01/13/15 Analyzed: 01/15/15

Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.9	61-154			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

**LCS (5011314-BS1)**

Prepared: 01/13/15 Analyzed: 01/15/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0446		mg/kg	0.0500		89.3	61-154			
Benzene	1.71	0.050	mg/kg	2.00		85.7	77.1-114			
Ethylbenzene	1.64	0.050	mg/kg	2.00		81.9	63.5-121			
Toluene	1.72	0.050	mg/kg	2.00		86.1	67-114			
Total Xylenes	4.94	0.150	mg/kg	6.00		82.3	62.4-125			

**LCS Dup (5011314-BSD1)**

Prepared: 01/13/15 Analyzed: 01/15/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0446		mg/kg	0.0500		89.1	61-154			
Benzene	1.84	0.050	mg/kg	2.00		92.2	77.1-114	7.31	16.4	
Ethylbenzene	1.74	0.050	mg/kg	2.00		87.2	63.5-121	6.23	17	
Toluene	1.82	0.050	mg/kg	2.00		91.0	67-114	5.52	16.2	
Total Xylenes	5.27	0.150	mg/kg	6.00		87.9	62.4-125	6.52	17	

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**Petroleum Hydrocarbons by GC FID - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5011309 - General Prep - Organics**

**Blank (5011309-BLK1)**

Prepared & Analyzed: 01/13/15

Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		95.0	52.1-176			
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	47.2-157			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

**LCS (5011309-BS1)**

Prepared & Analyzed: 01/13/15

Surrogate: 1-Chlorooctadecane	48.7		mg/kg	50.0		97.3	52.1-176			
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	47.2-157			
DRO >C10-C28	173	10.0	mg/kg	200		86.4	81.3-118			
GRO C6-C10	186	10.0	mg/kg	200		93.2	72.5-115			
Total TPH C6-C28	359	10.0	mg/kg	400		89.8	80-113			

**LCS Dup (5011309-BSD1)**

Prepared & Analyzed: 01/13/15

Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0		102	52.1-176			
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	47.2-157			
DRO >C10-C28	187	10.0	mg/kg	200		93.7	81.3-118	8.06	15.3	
GRO C6-C10	186	10.0	mg/kg	200		93.1	72.5-115	0.0971	10.1	
Total TPH C6-C28	374	10.0	mg/kg	400		93.4	80-113	3.91	12.1	

**Batch 5011401 - General Prep - Organics**

**Blank (5011401-BLK1)**

Prepared & Analyzed: 01/14/15

Surrogate: 1-Chlorooctadecane	59.3		mg/kg	50.0		119	52.1-176			
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	47.2-157			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

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**Petroleum Hydrocarbons by GC FID - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5011401 - General Prep - Organics**

**LCS (5011401-BS1)**

Prepared & Analyzed: 01/14/15

Surrogate: 1-Chlorooctadecane	56.2		mg/kg	50.0		112	52.1-176			
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		97.0	47.2-157			
DRO >C10-C28	202	10.0	mg/kg	200		101	81.3-118			
GRO C6-C10	189	10.0	mg/kg	200		94.4	72.5-115			
Total TPH C6-C28	391	10.0	mg/kg	400		97.7	80-113			

**LCS Dup (5011401-BSD1)**

Prepared & Analyzed: 01/14/15

Surrogate: 1-Chlorooctadecane	58.5		mg/kg	50.0		117	52.1-176			
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.7	47.2-157			
DRO >C10-C28	210	10.0	mg/kg	200		105	81.3-118	3.96	15.3	
GRO C6-C10	193	10.0	mg/kg	200		96.7	72.5-115	2.45	10.1	
Total TPH C6-C28	403	10.0	mg/kg	400		101	80-113	3.23	12.1	

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**Semivolatile Organic Compounds by GCMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5010501 - SW846-3510**

**Blank (5010501-BLK1)**

Prepared: 01/05/15 Analyzed: 01/07/15

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.50		mg/kg	2.00		75.2	23.4-133			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	0.007	0.040	mg/kg							J
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	1.57		mg/kg	2.00		78.5	20.4-109			
Phenanthrene	0.008	0.040	mg/kg							J
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.64		mg/kg	2.00		81.8	38.4-163			

**LCS (5010501-BS1)**

Prepared: 01/05/15 Analyzed: 01/07/15

<i>Surrogate: 2-Fluorobiphenyl</i>	1.73		mg/kg	2.00		86.4	23.4-133			
2-Methylnaphthalene	0.336	0.040	mg/kg	0.400		83.9	41.4-151			
Acenaphthene	0.361	0.040	mg/kg	0.400		90.3	39.3-154			
Acenaphthylene	0.364	0.040	mg/kg	0.400		91.0	39.2-150			
Anthracene	0.403	0.040	mg/kg	0.400		101	33.5-162			
Benzo[a]anthracene	0.359	0.040	mg/kg	0.400		89.6	28.6-167			
Benzo[a]pyrene	0.392	0.040	mg/kg	0.400		98.1	27.2-163			
Benzo[b]fluoranthene	0.306	0.040	mg/kg	0.400		76.5	24-168			
Benzo[g,h,i]perylene	0.316	0.040	mg/kg	0.400		79.0	14.1-172			
Benzo[k]fluoranthene	0.408	0.040	mg/kg	0.400		102	28.9-170			
Carbazole	0.436	0.040	mg/kg	0.400		109	31.6-163			
Chrysene	0.364	0.040	mg/kg	0.400		91.0	27.7-171			
Dibenz[a,h]anthracene	0.340	0.040	mg/kg	0.400		85.1	19-164			
Fluoranthene	0.384	0.040	mg/kg	0.400		96.0	38.5-165			

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Maralex PO Box 338 Ignacio CO, 81137	Project: Garfield II Evap. Pit Project Name / Number: [none] Project Manager: Naomi Azulai	Reported: 01/22/15 10:01
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**Semivolatile Organic Compounds by GCMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5010501 - SW846-3510**

**LCS (5010501-BS1)**

Prepared: 01/05/15 Analyzed: 01/07/15

Fluorene	0.390	0.040	mg/kg	0.400		97.4	40.4-158			
Indeno[1,2,3-cd]pyrene	0.316	0.040	mg/kg	0.400		79.0	21.9-162			
Naphthalene	0.283	0.040	mg/kg	0.400		70.7	33.8-147			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.80</i>		mg/kg	<i>2.00</i>		<i>90.0</i>	<i>20.4-109</i>			
Phenanthrene	0.387	0.040	mg/kg	0.400		96.7	34.7-164			
Pyrene	0.373	0.040	mg/kg	0.400		93.3	28-180			
<i>Surrogate: Terphenyl-dl4</i>	<i>2.03</i>		mg/kg	<i>2.00</i>		<i>101</i>	<i>38.4-163</i>			

**LCS Dup (5010501-BS1)**

Prepared: 01/05/15 Analyzed: 01/07/15

<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.68</i>		mg/kg	<i>2.00</i>		<i>84.1</i>	<i>23.4-133</i>			
2-Methylnaphthalene	0.341	0.040	mg/kg	0.400		85.3	41.4-151	1.67	20	
Acenaphthene	0.361	0.040	mg/kg	0.400		90.2	39.3-154	0.111	20	
Acenaphthylene	0.365	0.040	mg/kg	0.400		91.3	39.2-150	0.357	20	
Anthracene	0.414	0.040	mg/kg	0.400		103	33.5-162	2.61	20	
Benzo[a]anthracene	0.370	0.040	mg/kg	0.400		92.5	28.6-167	3.15	20	
Benzo[a]pyrene	0.400	0.040	mg/kg	0.400		100	27.2-163	1.91	20	
Benzo[b]fluoranthene	0.371	0.040	mg/kg	0.400		92.6	24-168	19.1	21.5	
Benzo[g,h,i]perylene	0.335	0.040	mg/kg	0.400		83.7	14.1-172	5.82	39.3	
Benzo[k]fluoranthene	0.425	0.040	mg/kg	0.400		106	28.9-170	4.24	20.5	
Carbazole	0.446	0.040	mg/kg	0.400		112	31.6-163	2.44	20	
Chrysene	0.370	0.040	mg/kg	0.400		92.5	27.7-171	1.63	20	
Dibenz[a,h]anthracene	0.367	0.040	mg/kg	0.400		91.8	19-164	7.65	30.5	
Fluoranthene	0.399	0.040	mg/kg	0.400		99.8	38.5-165	3.92	20	
Fluorene	0.395	0.040	mg/kg	0.400		98.8	40.4-158	1.40	20	
Indeno[1,2,3-cd]pyrene	0.335	0.040	mg/kg	0.400		83.7	21.9-162	5.82	32.1	
Naphthalene	0.277	0.040	mg/kg	0.400		69.2	33.8-147	2.03	20	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.77</i>		mg/kg	<i>2.00</i>		<i>88.5</i>	<i>20.4-109</i>			
Phenanthrene	0.388	0.040	mg/kg	0.400		97.0	34.7-164	0.212	20	
Pyrene	0.358	0.040	mg/kg	0.400		89.6	28-180	4.07	20	
<i>Surrogate: Terphenyl-dl4</i>	<i>1.96</i>		mg/kg	<i>2.00</i>		<i>97.8</i>	<i>38.4-163</i>			

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*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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Maralex	Project: Garfield II Evap. Pit	
PO Box 338	Project Name / Number: [none]	<b>Reported:</b>
Ignacio CO, 81137	Project Manager: Naomi Azulai	01/22/15 10:01

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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Debbie Zufelt, Reports Manager

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