

Wickham, Jerry, Env. Health

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Monday, June 16, 2014 11:04 AM
To: Wickham, Jerry, Env. Health
Subject: RE: Results - Ashland, 402090002 (ATL# 1401724)
Attachments: kent soil location.pdf; ashland family housing - civil plans.pdf

Hi Jerry,

Kent Avenue fill will be placed on the southern site boundary in a thin layer covering an approximately 30 by 200 feet area (see attached). The area where the Kent Ave. fill will be placed is planned to be a paved driveway/parking area and is well away from planned housing/landscaping areas. Ninyo & Moore will witness the placement of the Kent Ave. fill, document fill placement with photographs and on a figure, and summarize fill testing and placement activities in our RACR. Fill placement is currently scheduled to begin tomorrow morning, Tuesday, June 17.

Please let me know if this is acceptable or if you have any comments.

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
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New San Jose office
2149 O'Toole Avenue, Suite 10
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Experience * Quality * Commitment

-----Original Message-----

From: Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]
Sent: Monday, June 16, 2014 9:28 AM
To: Peter Sims
Subject: RE: Results - Ashland, 402090002 (ATL# 1401724)

Hello Peter,

The concentration of TPH as motor oil (120 ppm) exceeds the Tier 1 ESL for residential soil. Lead and TPH as diesel were detected at concentrations below the Tier 1 ESL for residential soil but at concentrations above ambient. Therefore, the soil should not be used for general reuse within living areas at the site. There are two

options if the soil is to be reused on site:

- 1) Additional sampling could be performed to better define the chemical concentrations in the soil.
- 2) The soil could be reused below hardscape areas where there is a low potential for future disturbance or exposure. In order to use this option, please submit a brief outline on where the soil would be reused and how the fill placement would be documented. This would need to be summarized in the final report for the site.

Regards,
Jerry Wickham
Alameda Environmental Health

From: Peter Sims [psims@ninyoandmoore.com]
Sent: Friday, June 13, 2014 1:55 PM
To: Wickham, Jerry, Env. Health
Subject: FW: Results - Ashland, 402090002 (ATL# 1401724)

Hi Jerry,

Approximately 25 cubic yards of additional soil was excavated from trench work in Kent Avenue and the contractor would like to reuse it on site. Lab results are attached. The soil appeared as homogenous silty sand, no odors or staining, and was free of debris. The soil is intended for general use at the site and may be used beneath housing areas. Please confirm if the soil is acceptable and I will inform the contractor.

We are currently planning on importing fill soil from the Evelyn-Marshall property in Sunnyvale on Tuesday of next week. I will be on site to check loads to make sure they are as described in the documents provided by the fill source.

Thanks,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000
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-----Original Message-----
From: Rachelle Arada [<mailto:Rachelle@atlglobal.com>]
Sent: Fri 6/13/2014 8:04 AM
To: Peter Sims
Subject: Results - Ashland, 402090002 (ATL# 1401724)

Hi Peter,

Attached are the results for the above project.

Rachelle Arada

Project Manager

[<cid:image001.jpg@01CEF688.AB5E4430>]Advanced Technology Laboratories
www.atlglobal.com<<http://www.atlglobal.com>>

Tel: (562) 989-4045 ext. 237

Fax: (562) 989-4040

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June 13, 2014

Peter Sims
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
Tel: (510) 633-5640
Fax:(510) 633-5646

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1401724
Client Reference : Ashland, 402090002

Enclosed are the results for sample(s) received on June 11, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland, 402090002

Report To : Peter Sims

Reported : 06/13/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMPA	1401724-05	Soil	6/10/14 0:00	6/11/14 8:05



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1956 Webster Street, Suite 400
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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 06/13/2014

Client Sample ID COMPA

Lab ID: 1401724-05

Title 22 Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Arsenic	3.3	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Barium	65	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Beryllium	ND	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Cadmium	ND	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Chromium	22	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Cobalt	7.0	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Copper	21	2.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Lead	33	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Molybdenum	ND	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Nickel	26	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Selenium	ND	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Silver	ND	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Thallium	ND	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Vanadium	23	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	
Zinc	50	1.0	NA	1	B4F0193	06/11/2014	06/12/14 12:09	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B4F0192	06/11/2014	06/11/14 17:41	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B4F0174	06/11/2014	06/11/14 14:26	
Surrogate: 4-Bromofluorobenzene	84.0 %		48 - 137		B4F0174	06/11/2014	06/11/14 14:26	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	56	5.0	NA	5	B4F0214	06/12/2014	06/12/14 16:51	
ORO	120	5.0	NA	5	B4F0214	06/12/2014	06/12/14 16:51	
Surrogate: p-Terphenyl	76.9 %		26 - 145		B4F0214	06/12/2014	06/12/14 16:51	



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Project Number : Ashland, 402090002
Report To : Peter Sims
Reported : 06/13/2014

Client Sample ID COMPA

Lab ID: 1401724-05

Volatile Organic Compounds by EPA 8260B

Analyst: DP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	5.0	NA	1	B4F0182	06/11/2014	06/11/14 16:22	
Ethylbenzene	ND	5.0	NA	1	B4F0182	06/11/2014	06/11/14 16:22	
m,p-Xylene	ND	10	NA	1	B4F0182	06/11/2014	06/11/14 16:22	
o-Xylene	ND	5.0	NA	1	B4F0182	06/11/2014	06/11/14 16:22	
Toluene	ND	5.0	NA	1	B4F0182	06/11/2014	06/11/14 16:22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>94.0 %</i>		<i>67 - 152</i>		B4F0182	06/11/2014	<i>06/11/14 16:22</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>		<i>59 - 135</i>		B4F0182	06/11/2014	<i>06/11/14 16:22</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>94.6 %</i>		<i>71 - 150</i>		B4F0182	06/11/2014	<i>06/11/14 16:22</i>	
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>		<i>77 - 129</i>		B4F0182	06/11/2014	<i>06/11/14 16:22</i>	



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Project Number : Ashland, 402090002
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QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4F0193 - EPA 3050B

Blank (B4F0193-BLK1)

Prepared: 6/11/2014 Analyzed: 6/12/2014

Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				

LCS (B4F0193-BS1)

Prepared: 6/11/2014 Analyzed: 6/12/2014

Antimony	50.3510	2.0	50.0000		101	80 - 120			
Arsenic	49.2710	1.0	50.0000		98.5	80 - 120			
Barium	51.5994	1.0	50.0000		103	80 - 120			
Beryllium	50.9744	1.0	50.0000		102	80 - 120			
Cadmium	49.9979	1.0	50.0000		100	80 - 120			
Chromium	52.4748	1.0	50.0000		105	80 - 120			
Cobalt	51.5820	1.0	50.0000		103	80 - 120			
Copper	49.4930	2.0	50.0000		99.0	80 - 120			
Lead	50.8086	1.0	50.0000		102	80 - 120			
Molybdenum	52.2460	1.0	50.0000		104	80 - 120			
Nickel	50.4586	1.0	50.0000		101	80 - 120			
Selenium	46.0633	1.0	50.0000		92.1	80 - 120			
Silver	47.6073	1.0	50.0000		95.2	80 - 120			
Thallium	51.1162	1.0	50.0000		102	80 - 120			
Vanadium	50.6295	1.0	50.0000		101	80 - 120			
Zinc	52.2544	1.0	50.0000		105	80 - 120			

Matrix Spike (B4F0193-MS1)

Source: 1401724-05

Prepared: 6/11/2014 Analyzed: 6/12/2014

Antimony	89.1714	2.0	125.000	ND	71.3	21 - 109			
Arsenic	107.642	1.0	125.000	3.31523	83.5	55 - 102			
Barium	166.688	1.0	125.000	64.7134	81.6	40 - 130			
Beryllium	102.761	1.0	125.000	0.177228	82.1	60 - 104			



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Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 06/13/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4F0193 - EPA 3050B (continued)

Matrix Spike (B4F0193-MS1) - Continued

Source: 1401724-05

Prepared: 6/11/2014 Analyzed: 6/12/2014

Cadmium	94.2872	1.0	125.000	0.065330	75.4	52 - 100
Chromium	129.903	1.0	125.000	22.0024	86.3	53 - 113
Cobalt	104.138	1.0	125.000	7.03272	77.7	53 - 104
Copper	132.753	2.0	125.000	20.6640	89.7	51 - 122
Lead	127.821	1.0	125.000	32.6907	76.1	51 - 106
Molybdenum	103.110	1.0	125.000	0.214861	82.3	55 - 103
Nickel	123.130	1.0	125.000	26.4681	77.3	48 - 112
Selenium	98.9786	1.0	125.000	0.645632	78.7	53 - 104
Silver	106.230	1.0	125.000	ND	85.0	61 - 109
Thallium	94.9338	1.0	125.000	ND	75.9	44 - 103
Vanadium	129.870	1.0	125.000	22.8187	85.6	55 - 115
Zinc	140.997	1.0	125.000	50.3430	72.5	24 - 130

Matrix Spike Dup (B4F0193-MSD1)

Source: 1401724-05

Prepared: 6/11/2014 Analyzed: 6/12/2014

Antimony	96.2825	2.0	125.000	ND	77.0	21 - 109	7.67	20
Arsenic	113.152	1.0	125.000	3.31523	87.9	55 - 102	4.99	20
Barium	173.059	1.0	125.000	64.7134	86.7	40 - 130	3.75	20
Beryllium	107.983	1.0	125.000	0.177228	86.2	60 - 104	4.96	20
Cadmium	99.4970	1.0	125.000	0.065330	79.5	52 - 100	5.38	20
Chromium	136.325	1.0	125.000	22.0024	91.5	53 - 113	4.82	20
Cobalt	108.582	1.0	125.000	7.03272	81.2	53 - 104	4.18	20
Copper	134.916	2.0	125.000	20.6640	91.4	51 - 122	1.62	20
Lead	137.900	1.0	125.000	32.6907	84.2	51 - 106	7.59	20
Molybdenum	110.036	1.0	125.000	0.214861	87.9	55 - 103	6.50	20
Nickel	126.241	1.0	125.000	26.4681	79.8	48 - 112	2.49	20
Selenium	105.357	1.0	125.000	0.645632	83.8	53 - 104	6.24	20
Silver	110.115	1.0	125.000	ND	88.1	61 - 109	3.59	20
Thallium	101.317	1.0	125.000	ND	81.1	44 - 103	6.51	20
Vanadium	132.832	1.0	125.000	22.8187	88.0	55 - 115	2.25	20
Zinc	146.363	1.0	125.000	50.3430	76.8	24 - 130	3.73	20



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 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 06/13/2014

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4F0192 - EPA 7471									
Blank (B4F0192-BLK1)				Prepared: 6/11/2014 Analyzed: 6/11/2014					
Mercury	ND	0.10			NR				
LCS (B4F0192-BS1)				Prepared: 6/11/2014 Analyzed: 6/11/2014					
Mercury	0.900610	0.10	0.833333		108	80 - 120			
Matrix Spike (B4F0192-MS1)				Prepared: 6/11/2014 Analyzed: 6/11/2014					
Mercury	0.920322	0.10	0.833333	0.068503	102	70 - 130			
Matrix Spike Dup (B4F0192-MSD1)				Prepared: 6/11/2014 Analyzed: 6/11/2014					
Mercury	0.940730	0.10	0.833333	0.068503	105	70 - 130	2.19	20	
Post Spike (B4F0192-PS1)				Prepared: 6/11/2014 Analyzed: 6/11/2014					
Mercury	0.006530		5.00000E-3	0.000822	114	85 - 115			



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 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 06/13/2014

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B4F0174 - GCVOAS									
Blank (B4F0174-BLK1)					Prepared: 6/11/2014 Analyzed: 6/11/2014				
Gasoline Range Organics	ND	1.0			NR				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2143		0.200000		107	48 - 137			
LCS (B4F0174-BS1)					Prepared: 6/11/2014 Analyzed: 6/11/2014				
Gasoline Range Organics	4.02300	1.0	5.00000		80.5	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2119		0.200000		106	48 - 137			
Duplicate (B4F0174-DUP1)					Source: 1401728-01 Prepared: 6/11/2014 Analyzed: 6/11/2014				
Gasoline Range Organics	ND	1.0		ND	NR			20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2255		0.200000		113	48 - 137			
Matrix Spike (B4F0174-MS1)					Source: 1401718-01 Prepared: 6/11/2014 Analyzed: 6/11/2014				
Gasoline Range Organics	2.61300	1.0	5.00000	ND	52.3	50 - 122			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1990		0.200000		99.5	48 - 137			
Matrix Spike Dup (B4F0174-MSD1)					Source: 1401718-01 Prepared: 6/11/2014 Analyzed: 6/11/2014				
Gasoline Range Organics	2.51800	1.0	5.00000	ND	50.4	50 - 122	3.70	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1844		0.200000		92.2	48 - 137			



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Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 06/13/2014

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B4F0214 - GCSEMI_DRO_SOIL_LL									
Blank (B4F0214-BLK1)					Prepared: 6/12/2014 Analyzed: 6/12/2014				
DRO	ND	1.0			NR				
ORO	ND	1.0			NR				
<i>Surrogate: p-Terphenyl</i>	2.292		2.66667		86.0	26 - 145			
LCS (B4F0214-BS1)					Prepared: 6/12/2014 Analyzed: 6/12/2014				
DRO	28.4547	1.0	33.3333		85.4	28 - 138			
<i>Surrogate: p-Terphenyl</i>	2.685		2.66667		101	26 - 145			
Duplicate (B4F0214-DUP1)					Prepared: 6/12/2014 Analyzed: 6/12/2014				
				Source: 1401728-01					
DRO	21.8240	1.0		21.7590	NR		0.298	20	
<i>Surrogate: p-Terphenyl</i>	2.648		2.66667		99.3	26 - 145			
Matrix Spike (B4F0214-MS1)					Prepared: 6/12/2014 Analyzed: 6/12/2014				
				Source: 1401728-01					
DRO	40.6233	1.0	33.3333	21.7590	56.6	18 - 122			
<i>Surrogate: p-Terphenyl</i>	2.502		2.66667		93.8	26 - 145			
Matrix Spike Dup (B4F0214-MSD1)					Prepared: 6/12/2014 Analyzed: 6/12/2014				
				Source: 1401728-01					
DRO	40.6297	1.0	33.3333	21.7590	56.6	18 - 122	0.0156	20	
<i>Surrogate: p-Terphenyl</i>	2.572		2.66667		96.4	26 - 145			



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Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 06/13/2014

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4F0182 - MSVOAS2

Blank (B4F0182-BLK1)

Prepared: 6/11/2014 Analyzed: 6/11/2014

Benzene	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
o-Xylene	ND	5.0			NR				
Toluene	ND	5.0			NR				
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>48.95</i>		<i>50.0000</i>		<i>97.9</i>	<i>67 - 152</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.59</i>		<i>50.0000</i>		<i>103</i>	<i>59 - 135</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.91</i>		<i>50.0000</i>		<i>93.8</i>	<i>71 - 150</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.07</i>		<i>50.0000</i>		<i>102</i>	<i>77 - 129</i>			

LCS (B4F0182-BS1)

Prepared: 6/11/2014 Analyzed: 6/11/2014

1,1-Dichloroethene	42.7500	5.0	50.0000		85.5	62 - 129			
Benzene	51.7600	5.0	50.0000		104	82 - 121			
Chlorobenzene	57.1200	5.0	50.0000		114	83 - 132			
MTBE	56.9400	5.0	50.0000		114	55 - 138			
Toluene	56.1200	5.0	50.0000		112	80 - 129			
Trichloroethene	56.7600	5.0	50.0000		114	75 - 133			
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.64</i>		<i>50.0000</i>		<i>105</i>	<i>67 - 152</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>55.52</i>		<i>50.0000</i>		<i>111</i>	<i>59 - 135</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.27</i>		<i>50.0000</i>		<i>103</i>	<i>71 - 150</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.25</i>		<i>50.0000</i>		<i>106</i>	<i>77 - 129</i>			

Duplicate (B4F0182-DUP1)

Source: 1401728-01

Prepared: 6/11/2014 Analyzed: 6/11/2014

1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
<hr/>									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.79</i>		<i>50.0000</i>		<i>102</i>	<i>67 - 152</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.83</i>		<i>50.0000</i>		<i>104</i>	<i>59 - 135</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>20.16</i>		<i>50.0000</i>		<i>40.3</i>	<i>71 - 150</i>			S2
<i>Surrogate: Toluene-d8</i>	<i>50.10</i>		<i>50.0000</i>		<i>100</i>	<i>77 - 129</i>			

Matrix Spike (B4F0182-MS1)

Source: 1401725-01

Prepared: 6/11/2014 Analyzed: 6/11/2014

1,1-Dichloroethene	32.1300	5.0	50.0000	ND	64.3	51 - 125			
Benzene	44.6900	5.0	50.0000	ND	89.4	61 - 123			
Chlorobenzene	45.8700	5.0	50.0000	ND	91.7	46 - 140			
MTBE	54.6300	5.0	50.0000	ND	109	45 - 135			
Toluene	47.1800	5.0	50.0000	ND	94.4	45 - 140			
Trichloroethene	48.9000	5.0	50.0000	ND	97.8	50 - 146			



Certificate of Analysis

Ninyo & Moore
 1956 Webster Street, Suite 400
 Oakland, CA 94612

Project Number : Ashland, 402090002
 Report To : Peter Sims
 Reported : 06/13/2014

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4F0182 - MSVOAS2 (continued)

Matrix Spike (B4F0182-MS1) - Continued

Source: 1401725-01

Prepared: 6/11/2014 Analyzed: 6/11/2014

Surrogate: 1,2-Dichloroethane-d4	53.11		50.0000		106	67 - 152		
Surrogate: 4-Bromofluorobenzene	50.44		50.0000		101	59 - 135		
Surrogate: Dibromofluoromethane	51.65		50.0000		103	71 - 150		
Surrogate: Toluene-d8	51.30		50.0000		103	77 - 129		

Matrix Spike Dup (B4F0182-MSD1)

Source: 1401725-01

Prepared: 6/11/2014 Analyzed: 6/11/2014

1,1-Dichloroethene	31.8800	5.0	50.0000	ND	63.8	51 - 125	0.781	20	
Benzene	43.4000	5.0	50.0000	ND	86.8	61 - 123	2.93	20	
Chlorobenzene	43.6800	5.0	50.0000	ND	87.4	46 - 140	4.89	20	
MTBE	53.1800	5.0	50.0000	ND	106	45 - 135	2.69	20	
Toluene	45.4300	5.0	50.0000	ND	90.9	45 - 140	3.78	20	
Trichloroethene	47.1600	5.0	50.0000	ND	94.3	50 - 146	3.62	20	
<hr/>									
Surrogate: 1,2-Dichloroethane-d4	54.55		50.0000		109	67 - 152			
Surrogate: 4-Bromofluorobenzene	52.14		50.0000		104	59 - 135			
Surrogate: Dibromofluoromethane	51.27		50.0000		103	71 - 150			
Surrogate: Toluene-d8	51.57		50.0000		103	77 - 129			



Certificate of Analysis

Ninyo & Moore

1956 Webster Street, Suite 400

Oakland, CA 94612

Project Number : Ashland, 402090002

Report To : Peter Sims

Reported : 06/13/2014

Notes and Definitions

S2	Surrogate recovery was below laboratory acceptance limit. Reextraction and/or reanalysis confirms low recovery caused by matrix effects.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

CHAIN OF CUSTODY RECORD
 Page 4 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOG Ver:20130715	
Method of Transport	Sample Conditions Upon Receipt	Condition	Y N
Client: ATL FedEx GSO / Other:	1. CHILLED 2. HEADSPACE (N/A) 3. CONTAINER INTACT 4. SEALED	5. # OF SAMPLES MATCH COC /	Y N
	6. PRESERVED		
	7. COOLER TEMP. deg C:		

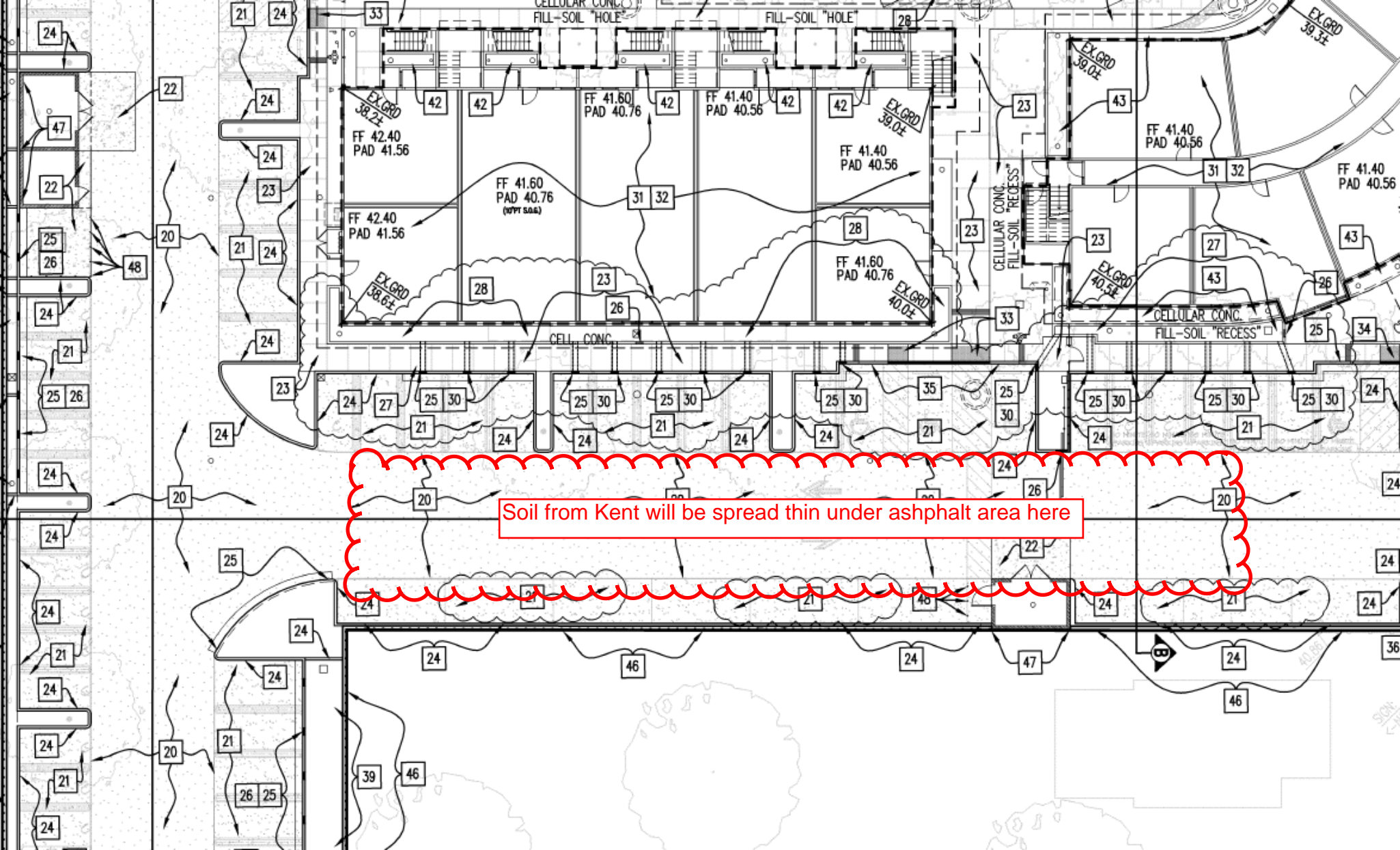
Company: **Ninyo & Moore** Address: 1956 Webster Street, Suite 400
 City: Oakland State: CA Zip: 94612
 Attn: Peter Sims Email: psims@ninyoandmoore.com
 Company: Ninyo & Moore Address: 1956 Webster Street, Suite 400
 City: Oakland State: CA Zip: 94612

Lab No.	Sample ID / Location	Date	Time	Sample Description	Quote #:	Special Instructions/Comments:
1	109724 - 1 SPA-3	6/10/14	0920			Prepare composite sample COMPA by combining SPA-1, SPA-2, SPA-3, and SPA-4. TAT = > 36 < 48 hours
2	109724 - 2 SPA-4		0931			
3	109724 - 3 SPA-2		0932			
4	109724 - 4 SPA-1		0933			
5	109724 - 5 COMPA		0934			

ITEM	Lab No.	Sample ID / Location	Date	Time	Sample Description	Quote #:	Special Instructions/Comments:	Encircle or Write Requested Analysis	Encircle Sample Matrix	TAT	Container	QA/QC	REMARKS
1	109724 - 1	SPA-3	6/10/14	0920			Prepare composite sample COMPA by combining SPA-1, SPA-2, SPA-3, and SPA-4. TAT = > 36 < 48 hours	Select Analysis Enter Custom Analysis	Select Soil Matrix	15	Type: 1-Tube; 2-VOA; 3-Liter; 4-Pint; 5-5lit; 6-Tedlar; 7 - Center	5-2n (Aa)2; 6-NaOH; 7-NH3; 2-NAS203	
2	109724 - 2	SPA-4		0931				Select Analysis Enter Custom Analysis	Select Aqueous Matrix	15			
3	109724 - 3	SPA-2		0932				Select Analysis Enter Custom Analysis	Select Wastewater Matrix	15			
4	109724 - 4	SPA-1		0933				Select Analysis Enter Custom Analysis	Select Water Matrix	15			
5	109724 - 5	COMPA		0934				Select Analysis Enter Custom Analysis	Select Solid Matrix	15			

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: Peter Sims Signature: Peter Sims
 Date: 6/10/14 Time: 12:10
 Received by: Jeff Siegfried Date: 6/10/14 Time: 1543
 Received by: GSO Date: 6/10/14 Time: 4131



Soil from Kent will be spread thin under asphalt area here