

Wickham, Jerry, Env. Health

From: Kris Larson [klarson@ninyoandmoore.com]
Sent: Friday, October 15, 2010 8:34 AM
To: Wickham, Jerry, Env. Health
Cc: Larry Lepore
Subject: Analytical results for samples around the Holland Park Tree
Attachments: 223169_RPTS.pdf

Jerry,

Attached are the sample results for the four point composite-confirmation samples collected around the tree at Holland Park. The sample boundaries included the parking lot to the north and northeast, the skate park to the south and southeast, and the children's play area to the west. We analyzed for TPH as diesel and PCBs. We did not analyze for TPH as gasoline because the previous samples we collected on site were less than the laboratory reporting limit for gasoline in all samples. The results for TPH as diesel of 130 mg/kg are close to the cleanup goal of 100 mg/kg, and no PCBs were detected above the laboratory reporting limits. Because the diesel results are so close to the cleanup goals, no PCBs are above the reporting limits, another three inches of mulch will be added to the area, and the frequency of public access to this area will be limited to park users who will probably be spending their time in other areas of the park (especially children), I would recommend leaving the existing soil in place, as it presents an unlikely environmental concern to the public. Please advise if you think any action should taken.

Best regards,

Kris M. Larson, P.G.

Principal Geologist

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Total Extractable Hydrocarbons			
Lab #:	223169	Location:	Holland PK
Client:	Ninyo & Moore	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	CST-ABCD	Sampled:	10/13/10
Matrix:	Soil	Received:	10/13/10
Units:	mg/Kg	Prepared:	10/13/10
Basis:	as received	Analyzed:	10/14/10
Batch#:	167942		

Type: SAMPLE Diln Fac: 5.000
 Lab ID: 223169-005

Analyte	Result	RL
Diesel C10-C24	130 Y	5.0

Surrogate	%REC	Limits
o-Terphenyl	95	45-130

Type: BLANK Diln Fac: 1.000
 Lab ID: QC564250

Analyte	Result	RL
Diesel C10-C24	ND	0.99

Surrogate	%REC	Limits
o-Terphenyl	90	45-130

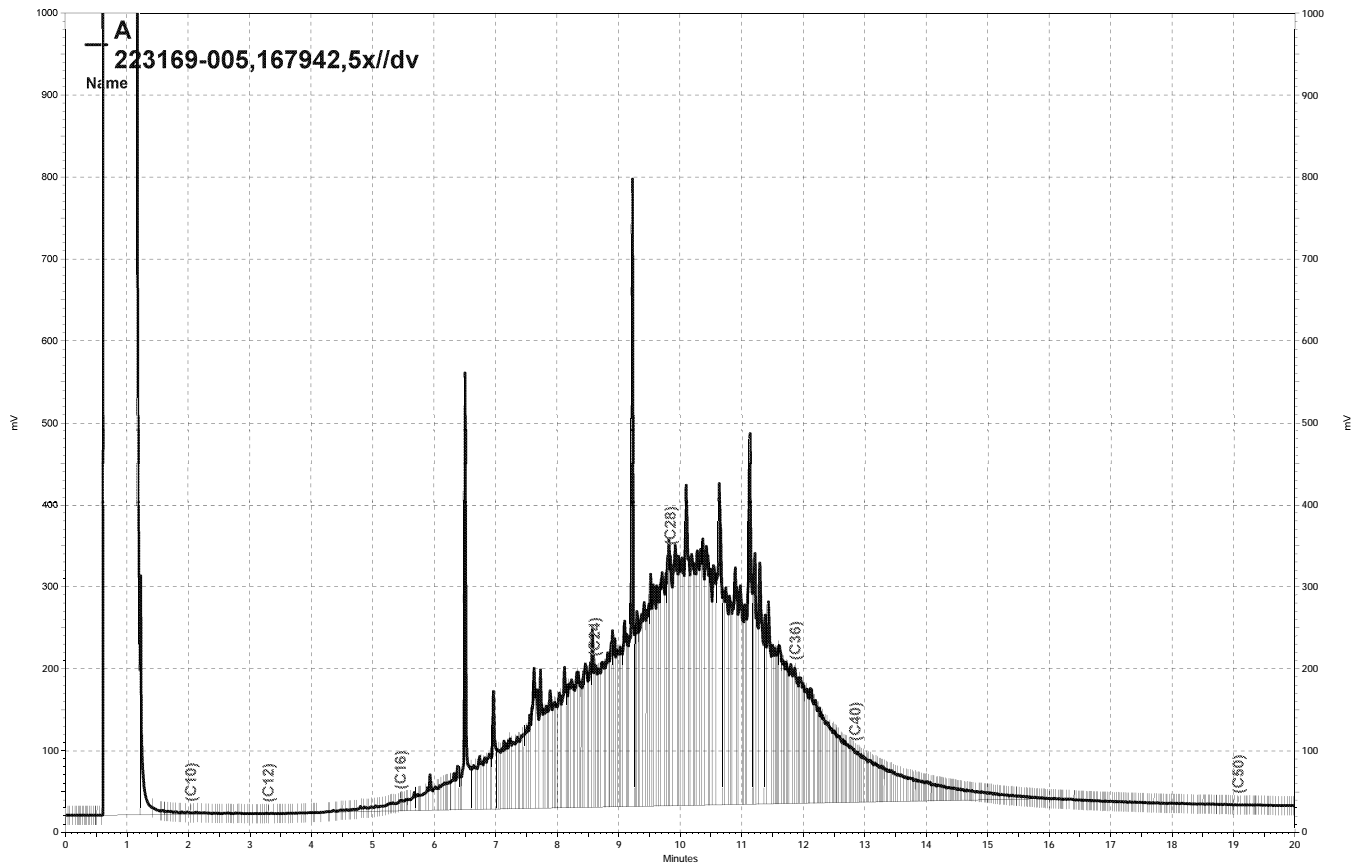
Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

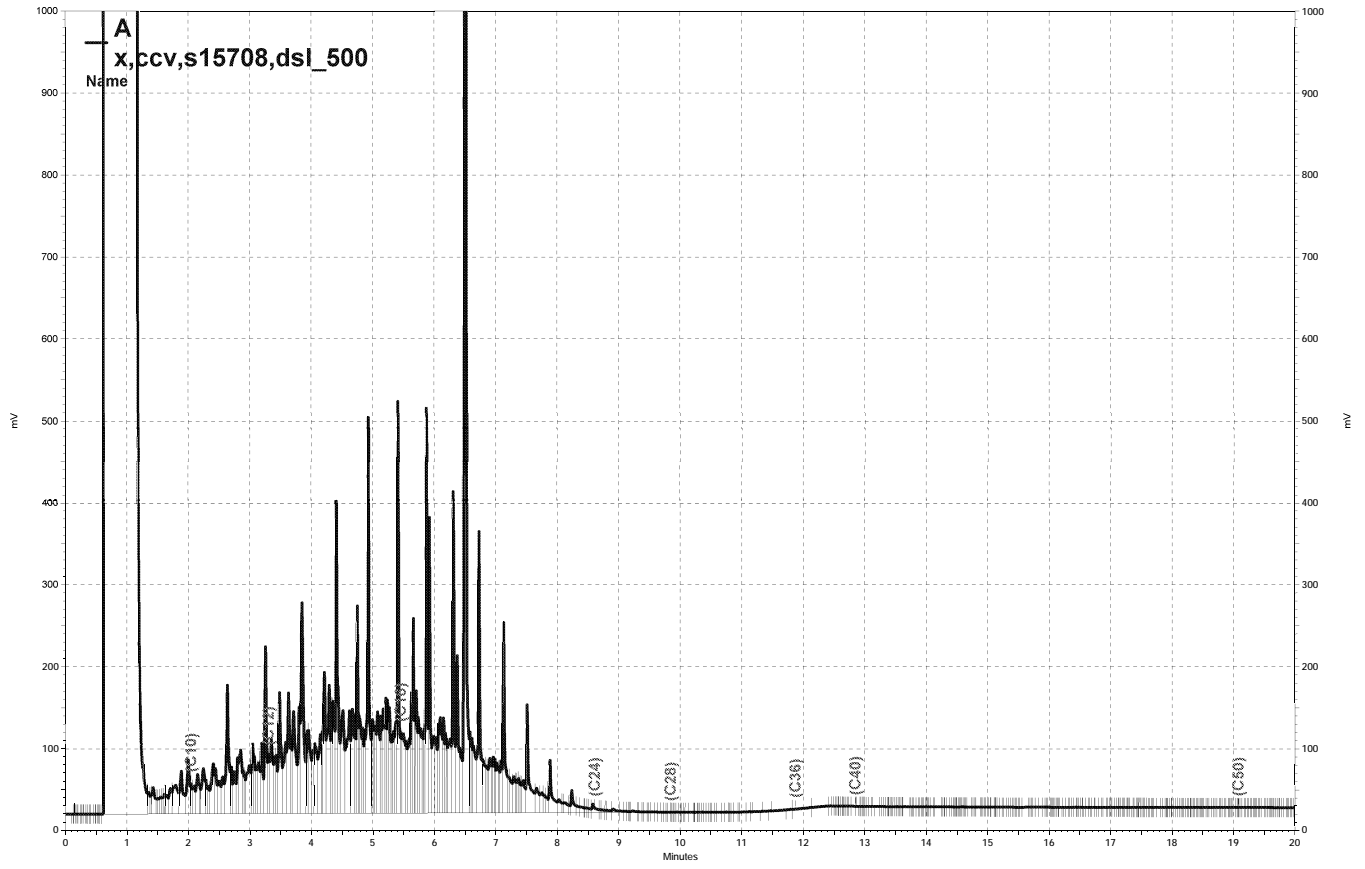
Total Extractable Hydrocarbons			
Lab #:	223169	Location:	Holland PK
Client:	Ninyo & Moore	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC564251	Batch#:	167942
Matrix:	Soil	Prepared:	10/13/10
Units:	mg/Kg	Analyzed:	10/14/10

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.57	42.03	85	45-143

Surrogate	%REC	Limits
o-Terphenyl	91	45-130



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Polychlorinated Biphenyls (PCBs)			
Lab #:	223169	Location:	Holland PK
Client:	Ninyo & Moore	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Field ID:	CST-ABCD	Batch#:	167930
Matrix:	Soil	Sampled:	10/13/10
Units:	ug/Kg	Received:	10/13/10
Basis:	as received	Prepared:	10/13/10
Diln Fac:	1.000	Analyzed:	10/14/10

Type: SAMPLE Lab ID: 223169-005

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	68	12

Surrogate	%REC	Limits
TCMX	97	72-145
Decachlorobiphenyl	79	35-120

Type: BLANK Lab ID: QC564209

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	98	72-145
Decachlorobiphenyl	115	35-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	223169	Location:	Holland PK
Client:	Ninyo & Moore	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC564210	Batch#:	167930
Matrix:	Soil	Prepared:	10/13/10
Units:	ug/Kg	Analyzed:	10/14/10

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.4	168.4	101	79-148
Aroclor-1260	166.4	169.9	102	77-152

Surrogate	%REC	Limits
TCMX	102	72-145
Decachlorobiphenyl	105	35-120