



Power Knot, LLC
 Attention: Iain Milnes
 501 Valley Way
 Milpitas, CA 95035

January 27, 2014
 Report No.14-0057E

Subject: Chemical Analysis of Waste Water
 Sample Type: Grab
 Sample Collection (Date/Time): January 27, 2014
 Sample Analysis (Date/Time): January 27, 2014 1:35 PM
 Analyzed by: H. Ham

Sample ID	Analysis	Results	Units	Analysis Date	Method Detection Limit	Method	QC Batch	Qual
Sample Point	pH	6.56	pH	1/27/2014	0.02	SM4500-H+B	PH012714	

Datalab


 H. Ham

Analyzed by: H. Ham
 Reviewed by: MC Bautista Jr
 California ELAP Certificate 2781

ND = Not Detected at or above the Detection Limit
 Qual = Data Qualifier



1893 Concourse Drive, San Jose, CA 95131
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Analytical Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Project: #14-0057E Sample Point **Extraction Method:** E1664A_SG
Date Received: 1/28/14 19:04 **Analytical Method:** E1664A
Date Prepared: 1/30/14 **Unit:** mg/L

Hexane Extractable Material with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
#14-0057E Sample Point	1401778-001B	Water	01/27/2014 09:00	O&G	86606
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
HEMSGT	24		5.3	1	01/31/2014 11:30



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Analytical Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Project: #14-0057E Sample Point **Extraction Method:** SM5210B
Date Received: 1/28/14 19:04 **Analytical Method:** SM5210B
Date Prepared: 1/28/14 **Unit:** mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
#14-0057E Sample Point	1401778-001A	Water	01/27/2014 09:00	SPECTROPHOTOMETER	86501

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
BOD	390	200	50	02/02/2014 20:25



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Analytical Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Project: #14-0057E Sample Point **Extraction Method:** SM5220D
Date Received: 1/28/14 19:04 **Analytical Method:** SM5220D
Date Prepared: 1/31/14 **Unit:** mg/L

Chemical Oxygen Demand (COD)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
#14-0057E Sample Point	1401778-001E	Water	01/27/2014 09:00	SPECTROPHOTOMETER	86550

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
COD	1100	50	5	01/31/2014 15:10



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Analytical Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Project: #14-0057E Sample Point **Extraction Method:** SM2540C
Date Received: 1/28/14 19:04 **Analytical Method:** SM2540C
Date Prepared: 1/30/14 **Unit:** mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
#14-0057E Sample Point	1401778-001D	Water	01/27/2014 09:00	WetChem	86582
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Dissolved Solids	445		10.0	1	01/31/2014 18:25



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Analytical Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Project: #14-0057E Sample Point **Extraction Method:** SM2540D
Date Received: 1/28/14 19:04 **Analytical Method:** SM2540D
Date Prepared: 1/29/14 **Unit:** mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
#14-0057E Sample Point	1401778-001C	Water	01/27/2014 09:00	WetChem	86520
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Total Suspended Solids	373		10.0	10	01/29/2014 19:45



Quality Control Documentation

QC Batch ID PH012714
QC/Prep Date 1/27/2014

Analysis	Pt One	Pt Two	Pt Three	Units	QC Type	Method
pH	4.00	7.00	10.00	pH	Buffers	SM4500-H+B

Automatic temperature adjustment.

California ELAP Certificate 2781



Quality Control Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Date Prepared: 1/31/14 **BatchID:** 86606
Date Analyzed: 1/31/14 **Extraction Method:** E1664A_SG
Instrument: O&G **Analytical Method:** E1664A
Matrix: Water **Unit:** mg/L
Project: #14-0057E Sample Point **Sample ID:** MB/LCS-86606
1401763-001AMS/MSD

QC Summary Report for E1664A

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
HEMSGT	ND	9.767	5.0	10.42	-	93.8	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
HEMSGT	15.28	14.76	10.42	ND	147,F1	142,F1	70-130	0	30



Quality Control Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Date Prepared: 1/28/14 **BatchID:** 86501
Date Analyzed: 2/2/14 **Extraction Method:** SM5210B
Instrument: SPECTROPHOTOMETER **Analytical Method:** SM5210B
Matrix: Water **Unit:** mg/L
Project: #14-0057E Sample Point **Sample ID:** MB/LCS-86501

QC Summary Report for SM5210B (BOD)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
BOD	ND	171.5	4.0	198	-	86.6	80-120



Quality Control Report

Client: Power Knot,LLC	Contact: Iain Milnes	WorkOrder: 1401778
Date Prepared: 1/30/14		BatchID: 86550
Date Analyzed: 1/31/14		Extraction Method: SM5220D
Instrument: SPECTROPHOTOMETER		Analytical Method: SM5220D
Matrix: Water		Unit: mg/L
Project: #14-0057E Sample Point		Sample ID: MB/LCS-86550 1401713-002BMS/MSD

QC Summary Report for E410.4

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
COD	ND	421.9	10	400	-	105	90-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
COD	566	578.8	400	128.6	109	113	80-120	2.25	20



Quality Control Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Date Prepared: 1/30/14 **BatchID:** 86582
Date Analyzed: 1/31/14 **Extraction Method:** SM2540C
Instrument: WetChem **Analytical Method:** SM2540C
Matrix: Water **Unit:** mg/L
Project: #14-0057E Sample Point

QC Summary Report for SM2540C (TDS)

SampleID	Sample Result	Sample DF	Dup / Serial Dilution Result	Dup / Serial Dilution DF	RPD	Acceptance Criteria (%)
1401796-001F	1480	1	1430	1	3.45	<20



Quality Control Report

Client: Power Knot,LLC **Contact:** Iain Milnes **WorkOrder:** 1401778
Date Prepared: 1/29/14 - 1/30/14 **BatchID:** 86520
Date Analyzed: 1/29/14 - 1/30/14 **Extraction Method:** SM2540D
Instrument: WetChem **Analytical Method:** SM2540D
Matrix: Water **Unit:** mg/L
Project: #14-0057E Sample Point

QC Summary Report for SM2540D (TSS)

SampleID	Sample Result	Sample DF	Dup / Serial Dilution Result	Dup / Serial Dilution DF	RPD	Acceptance Criteria (%)
1401701-001B	26.0	5	24.5	5	5.94	<15
1401805-001D	1780	50	1780	50	0.281	<15



Chain of Custody QF 7.4.1B

14-0057E

Report To			Analysis Requested												
Attn:	Iain Milnes														
Company:	Power Knot, LLC														
Address:	501 Valley Way														
City, State, Zip:	Milpitas, CA 95035														
Phone:	408.889.8433 X8222														
Fax:															
Email:	iain.milnes@powerknot.com														
Sampler Signature: Iain Milnes			Date	Time											
			1/27/14	9:00 AM	BOD	FOG	TSS	TDS	OH and PH	PH	COD	Seal Intact?	Received by	Date	Time
Sample ID			Comp/Grab	Date	Solid/Liquid										
Sample Point			Grab	1/27/2014	Liquid	X									
Sample Point			Grab	1/27/2014	Liquid		X								
Sample Point			Grab	1/27/2014	Liquid										
Sample Point			Grab	1/27/2014	Liquid			X							
Sample Point			Grab	1/27/2014	Liquid										
Sample Point			Grab	1/27/2014	Liquid					X					
Sample Point			Grab	1/27/2014	Liquid										
Relinquished by:					Date	Time	Seal Intact?	yes	no	NA	Received by	Date	Time		
Relinquished by:					1/27/14	1:39pm					Sharon O'Flynn	1/27/14	1:30pm		
Relinquished by:					Date	Time	Seal Intact?	yes	no	NA	Received by	Date	Time		
Relinquished by:					Date	Time	Seal Intact?	yes	no	NA	Received by	Date	Time		
Relinquished by:					Date	Time	Seal Intact?	yes	no	NA	Received by	Date	Time		
Relinquished by:					Date	Time	Seal Intact?	yes	no	NA	Received by	Date	Time		