



LEGEND

	FENCE LINE
	CONTAINMENT BERM
	ABOVE GROUND STORAGE TANK
	FORMER FACILITY

Figure 1
SITE MAP

Noble Dechant X01-2,8
Facility ID - 418380
NE NE Section 1, T2N, R65W
Weld County, Colorado

API No. 05-123-31914	Prepared by JMA	Drawn by JMA	
Date 3/31/16	Reviewed by	Filename V009A	

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 09, 2016

Paul Henehan
Fremont Environmental
1759 Redwing Lane
Broomfield, CO 80020
RE: Noble - Dechant X01-2,8

Enclosed are the results of analyses for samples received by Summit Scientific on 02/08/16 16:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Noth Wall 4ft	1602040-01	Soil	02/08/16 00:00	02/08/16 16:35
Floor 6ft	1602040-02	Soil	02/08/16 00:00	02/08/16 16:35

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

Summit Scientific 1662040

S₂

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: FREMONT/NOBLES Project Manager: HENEHAN
Address: _____ E-Mail: _____
City/State/Zip: _____
Phone: 303-956-8714 Fax: _____ Project Name: NOBLE - DECHANT X01-2,8
Sampler Name: HENEHAN Project Number: _____

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	GR0/120	NAPHTH.	SAR	EC	PH	
1	NORTH WALL 4 FT	2/8/16		1															
2	FLOOR 6 FT	2/8/16		1															
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>Paul Henehan</u>	Date/Time: <u>2/8/16 16:35</u>	Received by: <u>MA</u>	Date/Time: <u>2-8-16 16:35</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard 48 hours <input type="checkbox"/> TUES AM PLZ.	Notes:
Relinquished by: <u>MA</u>	Date/Time: <u>2-8-16 17:45</u>	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>19.5°C</u>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

**Noth Wall 4ft
1602040-01 (Soil)**

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1602071	02/08/16	02/08/16	8015M	

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1602070	02/08/16	02/08/16	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

**Noth Wall 4ft
1602040-01 (Soil)**

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Calcium	213	11.2 mg/kg dry	1	1602068	02/08/16	02/08/16	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	196	5.62	"	"	"	"	"
Sodium	41.0	5.62	"	"	"	"	"

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.59		units	"	1602074	02/09/16	02/09/16	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.181	0.0100 mmhos/cm		1	1602073	02/08/16	02/08/16	SM 2510B	

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.54	0.100 pH Units		"	1602072	"	02/08/16	EPA 9045	

Date Sampled: 02/08/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	"	1602075	02/09/16	02/09/16	% calculation	

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

Floor 6ft
1602040-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/08/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1602071	02/08/16	02/08/16	8015M	

Date Sampled: **02/08/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/08/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1602070	02/08/16	02/08/16	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1602071 - EPA 3550A

Blank (1602071-BLK1)

Prepared & Analyzed: 02/08/16

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.0 " 12.5 96.0 30-150

LCS (1602071-BS1)

Prepared & Analyzed: 02/08/16

C10-C28 (DRO) 442 50 mg/kg 499 88.5 73-134

Surrogate: o-Terphenyl 11.5 " 12.5 91.8 30-150

Matrix Spike (1602071-MS1)

Source: 1602039-01

Prepared & Analyzed: 02/08/16

C10-C28 (DRO) 433 50 mg/kg 459 25.3 88.7 50-148

Surrogate: o-Terphenyl 10.9 " 11.5 94.6 30-150

Matrix Spike Dup (1602071-MSD1)

Source: 1602039-01

Prepared & Analyzed: 02/08/16

C10-C28 (DRO) 437 50 mg/kg 481 25.3 85.5 50-148 0.809 13

Surrogate: o-Terphenyl 11.0 " 12.0 91.2 30-150

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8
Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1602070 - EPA 5030 Soil MS

Blank (1602070-BLK1)

Prepared & Analyzed: 02/08/16

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400	97.9	23-173				
Surrogate: Toluene-d8	0.0406		"	0.0400	102	20-170				
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400	97.9	21-167				

LCS (1602070-BS1)

Prepared & Analyzed: 02/08/16

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.127	0.0020	"	0.100	127	58-130				
Toluene	0.129	0.0050	"	0.100	129	61-134				
Ethylbenzene	0.139	0.0050	"	0.0992	140	74-139				
m,p-Xylene	0.255	0.010	"	0.200	128	73-137				
o-Xylene	0.127	0.0050	"	0.0984	129	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400	99.4	23-173				
Surrogate: Toluene-d8	0.0408		"	0.0400	102	20-170				
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400	101	21-167				

Matrix Spike (1602070-MS1)

Source: 1602039-01

Prepared & Analyzed: 02/08/16

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.118	0.0020	"	0.0935	ND	126	30-131			
Toluene	0.122	0.0050	"	0.0935	ND	130	30-134			
Ethylbenzene	0.130	0.0050	"	0.0927	ND	141	22-153			
m,p-Xylene	0.241	0.010	"	0.187	ND	129	10-159			
o-Xylene	0.121	0.0050	"	0.0920	ND	132	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0374	105	23-173				
Surrogate: Toluene-d8	0.0379		"	0.0374	101	20-170				
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0374	98.9	21-167				

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1602070 - EPA 5030 Soil MS

Matrix Spike Dup (1602070-MSD1)		Source: 1602039-01			Prepared & Analyzed: 02/08/16					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.115	0.0020	"	0.0901	ND	128	30-131	2.25	34	
Toluene	0.120	0.0050	"	0.0901	ND	133	30-134	1.73	30	
Ethylbenzene	0.127	0.0050	"	0.0894	ND	142	22-153	2.81	24	
m,p-Xylene	0.236	0.010	"	0.180	ND	131	10-159	2.01	68	
o-Xylene	0.117	0.0050	"	0.0886	ND	132	31-151	3.35	38	
Surrogate: 1,2-Dichloroethane-d4		0.0379	"	0.0360		105	23-173			
Surrogate: Toluene-d8		0.0364	"	0.0360		101	20-170			
Surrogate: 4-Bromofluorobenzene		0.0353	"	0.0360		98.0	21-167			

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8
Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1602068 - General Preparation

Blank (1602068-BLK1)

Prepared & Analyzed: 02/08/16

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

LCS (1602068-BS1)

Prepared & Analyzed: 02/08/16

Calcium	557	10.0	mg/kg wet	500	111	82.9-118
Magnesium	557	5.00	"	500	111	77.1-123
Sodium	573	5.00	"	500	115	71-129

Duplicate (1602068-DUP1)

Source: 1601144-01

Prepared & Analyzed: 02/08/16

Calcium	1700	13.6	mg/kg dry	1780	4.45	200
Magnesium	277	6.80	"	278	0.262	200
Sodium	278	6.80	"	273	2.02	200

Matrix Spike (1602068-MS1)

Source: 1601144-01

Prepared & Analyzed: 02/08/16

Calcium	2430	13.6	mg/kg dry	680	1780	96.5	75-125
Magnesium	979	6.80	"	680	278	103	75-125
Sodium	1020	6.80	"	680	273	110	75-125

Matrix Spike Dup (1602068-MSD1)

Source: 1601144-01

Prepared & Analyzed: 02/08/16

Calcium	2660	13.6	mg/kg dry	680	1780	130	75-125	9.07	25	QM-07
Magnesium	986	6.80	"	680	278	104	75-125	0.683	25	
Sodium	1020	6.80	"	680	273	110	75-125	0.111	25	

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1602072 - General Preparation

LCS (1602072-BS1)

Prepared & Analyzed: 02/08/16

pH	6.14	0.100	pH Units	6.00	102	95-105
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Duplicate (1602072-DUP1)

Source: 1602040-01

Prepared & Analyzed: 02/08/16

pH	7.56	0.100	pH Units	7.54	0.265	20
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Batch 1602073 - General Preparation

Blank (1602073-BLK1)

Prepared & Analyzed: 02/08/16

Specific Conductance (EC)	ND	0.0100	mmhos/cm
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LCS (1602073-BS1)

Prepared & Analyzed: 02/08/16

Specific Conductance (EC)	0.499	0.0100	mmhos/cm	0.500	99.8	90-110
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Duplicate (1602073-DUP1)

Source: 1602040-01

Prepared & Analyzed: 02/08/16

Specific Conductance (EC)	0.162	0.0100	mmhos/cm	0.181	11.0	20
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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Dechant X01-2,8

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/16 07:04

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.

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

RPD Relative Percent Difference

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A handwritten signature in black ink, appearing to be 'MSH'.