



6/23/2010

LT Environmental, Inc.

Matthew Harrison

4600 West 60th Avenue

Arvada

CO

80003

Project Name- Noble - Skim Pit Closure

Project Number- NEP1023

Attached are your analytical results for Noble - Skim Pit Closure received by Origins Laboratory, Inc. June 18, 2010 11:19 am. This project is associated with Origins project number X006136-01 .

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all,

Origins Laboratory, Inc.

303.433.1322

o-squad@oelabinc.com



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled | Date Received |
|---------------------|---------------|--------|----------------------|------------------|
| Raystate 13.16 SS01 | X006136-01 | Soil | 6/17/2010 12:00:00PM | 06/18/2010 11:19 |
| Raystate 13.16 SS02 | X006136-02 | Soil | 6/17/2010 12:05:00PM | 06/18/2010 11:19 |
| Raystate 13.16 SS03 | X006136-03 | Soil | 6/17/2010 12:10:00PM | 06/18/2010 11:19 |
| Raystate 13.16 SS04 | X006136-04 | Soil | 6/17/2010 12:15:00PM | 06/18/2010 11:19 |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEP1023
Project: Noble - Skim Pit Closure

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page 1 of 1

Y0060136

Project Manager: M. Harrison
Project Name: Skim Pit Closure
Project Number: NEP1023
Samples Collected By: E. Baum.

ORIGINS
LABORATORY, INC

Client: LT Env.
Address:
Telephone Number:
Email Address:

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions | |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|-------------------------|----------|---------------------|-----|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa Canister # | | | |
| Sample 1 | 6-17-10 | | 4 | X | | | | X | | | | PH | 1 |
| Sample 2 | 6-17-10 | 1200 | 4 | X | | | | X | | | | SAR | 2 |
| Sample 3 | 6-17-10 | 1205 | 4 | X | | | | X | | | | CE | 3 |
| Sample 4 | 6-17-10 | 1210 | 4 | X | | | | X | | | | DrKro/ro | 4 |
| Sample 5 | 6-17-10 | 1215 | 4 | X | | | | X | | | | BTEX | 5 |
| Sample 6 | 6-18-10 | | 4 | X | | | | X | | | | | 6 |
| Sample 7 | 6-18-10 | | 4 | X | | | | X | | | | | 7 |
| Sample 8 | 6-18-10 | | 4 | X | | | | X | | | | | 8 |
| Sample 9 | 6-18-10 | | 4 | X | | | | X | | | | | 9 |
| Sample 10 | 6-18-10 | | 4 | X | | | | X | | | | | 10 |
| Sample 11 | 6-18-10 | | 4 | X | | | | X | | | | | 11 |
| Sample 12 | 6-18-10 | | 4 | X | | | | X | | | | | 12 |
| Sample 13 | 6-18-10 | | 4 | X | | | | X | | | | | 13 |
| Sample 14 | 6-18-10 | | 4 | X | | | | X | | | | | 14 |
| Sample 15 | 6-18-10 | | 4 | X | | | | X | | | | | 15 |
| Sample 16 | 6-18-10 | | 4 | X | | | | X | | | | | 16 |
| Sample 17 | 6-18-10 | | 4 | X | | | | X | | | | | 17 |
| Sample 18 | 6-18-10 | | 4 | X | | | | X | | | | | 18 |
| Sample 19 | 6-18-10 | | 4 | X | | | | X | | | | | 19 |
| Sample 20 | 6-18-10 | | 4 | X | | | | X | | | | | 20 |
| Sample 21 | 6-18-10 | | 4 | X | | | | X | | | | | 21 |
| Sample 22 | 6-18-10 | | 4 | X | | | | X | | | | | 22 |
| Sample 23 | 6-18-10 | | 4 | X | | | | X | | | | | 23 |
| Sample 24 | 6-18-10 | | 4 | X | | | | X | | | | | 24 |
| Sample 25 | 6-18-10 | | 4 | X | | | | X | | | | | 25 |
| Sample 26 | 6-18-10 | | 4 | X | | | | X | | | | | 26 |
| Sample 27 | 6-18-10 | | 4 | X | | | | X | | | | | 27 |
| Sample 28 | 6-18-10 | | 4 | X | | | | X | | | | | 28 |
| Sample 29 | 6-18-10 | | 4 | X | | | | X | | | | | 29 |
| Sample 30 | 6-18-10 | | 4 | X | | | | X | | | | | 30 |
| Sample 31 | 6-18-10 | | 4 | X | | | | X | | | | | 31 |
| Sample 32 | 6-18-10 | | 4 | X | | | | X | | | | | 32 |
| Sample 33 | 6-18-10 | | 4 | X | | | | X | | | | | 33 |
| Sample 34 | 6-18-10 | | 4 | X | | | | X | | | | | 34 |
| Sample 35 | 6-18-10 | | 4 | X | | | | X | | | | | 35 |
| Sample 36 | 6-18-10 | | 4 | X | | | | X | | | | | 36 |
| Sample 37 | 6-18-10 | | 4 | X | | | | X | | | | | 37 |
| Sample 38 | 6-18-10 | | 4 | X | | | | X | | | | | 38 |
| Sample 39 | 6-18-10 | | 4 | X | | | | X | | | | | 39 |
| Sample 40 | 6-18-10 | | 4 | X | | | | X | | | | | 40 |
| Sample 41 | 6-18-10 | | 4 | X | | | | X | | | | | 41 |
| Sample 42 | 6-18-10 | | 4 | X | | | | X | | | | | 42 |
| Sample 43 | 6-18-10 | | 4 | X | | | | X | | | | | 43 |
| Sample 44 | 6-18-10 | | 4 | X | | | | X | | | | | 44 |
| Sample 45 | 6-18-10 | | 4 | X | | | | X | | | | | 45 |
| Sample 46 | 6-18-10 | | 4 | X | | | | X | | | | | 46 |
| Sample 47 | 6-18-10 | | 4 | X | | | | X | | | | | 47 |
| Sample 48 | 6-18-10 | | 4 | X | | | | X | | | | | 48 |
| Sample 49 | 6-18-10 | | 4 | X | | | | X | | | | | 49 |
| Sample 50 | 6-18-10 | | 4 | X | | | | X | | | | | 50 |
| Sample 51 | 6-18-10 | | 4 | X | | | | X | | | | | 51 |
| Sample 52 | 6-18-10 | | 4 | X | | | | X | | | | | 52 |
| Sample 53 | 6-18-10 | | 4 | X | | | | X | | | | | 53 |
| Sample 54 | 6-18-10 | | 4 | X | | | | X | | | | | 54 |
| Sample 55 | 6-18-10 | | 4 | X | | | | X | | | | | 55 |
| Sample 56 | 6-18-10 | | 4 | X | | | | X | | | | | 56 |
| Sample 57 | 6-18-10 | | 4 | X | | | | X | | | | | 57 |
| Sample 58 | 6-18-10 | | 4 | X | | | | X | | | | | 58 |
| Sample 59 | 6-18-10 | | 4 | X | | | | X | | | | | 59 |
| Sample 60 | 6-18-10 | | 4 | X | | | | X | | | | | 60 |
| Sample 61 | 6-18-10 | | 4 | X | | | | X | | | | | 61 |
| Sample 62 | 6-18-10 | | 4 | X | | | | X | | | | | 62 |
| Sample 63 | 6-18-10 | | 4 | X | | | | X | | | | | 63 |
| Sample 64 | 6-18-10 | | 4 | X | | | | X | | | | | 64 |
| Sample 65 | 6-18-10 | | 4 | X | | | | X | | | | | 65 |
| Sample 66 | 6-18-10 | | 4 | X | | | | X | | | | | 66 |
| Sample 67 | 6-18-10 | | 4 | X | | | | X | | | | | 67 |
| Sample 68 | 6-18-10 | | 4 | X | | | | X | | | | | 68 |
| Sample 69 | 6-18-10 | | 4 | X | | | | X | | | | | 69 |
| Sample 70 | 6-18-10 | | 4 | X | | | | X | | | | | 70 |
| Sample 71 | 6-18-10 | | 4 | X | | | | X | | | | | 71 |
| Sample 72 | 6-18-10 | | 4 | X | | | | X | | | | | 72 |
| Sample 73 | 6-18-10 | | 4 | X | | | | X | | | | | 73 |
| Sample 74 | 6-18-10 | | 4 | X | | | | X | | | | | 74 |
| Sample 75 | 6-18-10 | | 4 | X | | | | X | | | | | 75 |
| Sample 76 | 6-18-10 | | 4 | X | | | | X | | | | | 76 |
| Sample 77 | 6-18-10 | | 4 | X | | | | X | | | | | 77 |
| Sample 78 | 6-18-10 | | 4 | X | | | | X | | | | | 78 |
| Sample 79 | 6-18-10 | | 4 | X | | | | X | | | | | 79 |
| Sample 80 | 6-18-10 | | 4 | X | | | | X | | | | | 80 |
| Sample 81 | 6-18-10 | | 4 | X | | | | X | | | | | 81 |
| Sample 82 | 6-18-10 | | 4 | X | | | | X | | | | | 82 |
| Sample 83 | 6-18-10 | | 4 | X | | | | X | | | | | 83 |
| Sample 84 | 6-18-10 | | 4 | X | | | | X | | | | | 84 |
| Sample 85 | 6-18-10 | | 4 | X | | | | X | | | | | 85 |
| Sample 86 | 6-18-10 | | 4 | X | | | | X | | | | | 86 |
| Sample 87 | 6-18-10 | | 4 | X | | | | X | | | | | 87 |
| Sample 88 | 6-18-10 | | 4 | X | | | | X | | | | | 88 |
| Sample 89 | 6-18-10 | | 4 | X | | | | X | | | | | 89 |
| Sample 90 | 6-18-10 | | 4 | X | | | | X | | | | | 90 |
| Sample 91 | 6-18-10 | | 4 | X | | | | X | | | | | 91 |
| Sample 92 | 6-18-10 | | 4 | X | | | | X | | | | | 92 |
| Sample 93 | 6-18-10 | | 4 | X | | | | X | | | | | 93 |
| Sample 94 | 6-18-10 | | 4 | X | | | | X | | | | | 94 |
| Sample 95 | 6-18-10 | | 4 | X | | | | X | | | | | 95 |
| Sample 96 | 6-18-10 | | 4 | X | | | | X | | | | | 96 |
| Sample 97 | 6-18-10 | | 4 | X | | | | X | | | | | 97 |
| Sample 98 | 6-18-10 | | 4 | X | | | | X | | | | | 98 |
| Sample 99 | 6-18-10 | | 4 | X | | | | X | | | | | 99 |
| Sample 100 | 6-18-10 | | 4 | X | | | | X | | | | | 100 |

Data Results Needed

Origins Laboratory, Inc.

Noelle E Doyle

Noelle E Doyle, Laboratory Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Raystate 13.16 SS01
6/17/2010 12:00:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.
X006136-01 (Soil)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|--------|---------|-------|---|---------|------------|------------|--|
| Benzene | 0.0304 | 0.00400 | mg/kg | 1 | OF21003 | 06/21/2010 | 06/22/2010 | |
| Toluene | 0.142 | 0.00400 | " | " | " | " | " | |
| Ethylbenzene | 0.0277 | 0.00400 | " | " | " | " | " | |
| Xylenes, total | 0.166 | 0.00400 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 99.0 % | 77.6-134 | | | " | " | " | |
| Surrogate: Toluene-d8 | 104 % | 81.4-121 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 113 % | 74.7-123 | | | " | " | " | |

Conductivity by E120.1

| | | | | | | | | |
|--------------|-----|---|-------|---|--------|------------|------------|--|
| Conductivity | 116 | 2 | US/CM | 1 | 811549 | 06/21/2010 | 06/21/2010 | |
|--------------|-----|---|-------|---|--------|------------|------------|--|

Percent Moisture by AD2216A

| | | | | | | | | |
|------------------|------|---|---|---|--------|------------|------------|--|
| Percent Moisture | 4.31 | 1 | % | 1 | 811484 | 06/21/2010 | 06/21/2010 | |
|------------------|------|---|---|---|--------|------------|------------|--|

pH by SW9045C

| | | | | | | | | |
|----|------|--|----|---|--------|------------|------------|--|
| pH | 9.27 | | SU | 1 | 811554 | 06/21/2010 | 06/21/2010 | |
|----|------|--|----|---|--------|------------|------------|--|

Sodium Absorption Ratio (SAR) by S29B08

| | | | | | | | | |
|-------------------------|-------|--|--|---|--------|------------|------------|--|
| Sodium absorption ratio | 0.137 | | | 1 | 811801 | 06/23/2010 | 06/23/2010 | |
|-------------------------|-------|--|--|---|--------|------------|------------|--|

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Raystate 13.16 SS01
6/17/2010 12:00:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

XENCO

X006136-01 (Soil)

TPH-Carbon Chain by EPA Method 8015M

| | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | OF21002 | 06/21/2010 | 06/21/2010 |
| Diesel (C10-C28) | ND | 50.0 | " | " | " | " | " |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " |
| TPH - Carbon Chain Total | ND | 50.0 | " | " | " | " | " |

Surrogate: o-Terphenyl

93.8 %

65-140

"

"

"

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Raystate 13.16 SS02
6/17/2010 12:05:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.
X006136-02 (Soil)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|---------|-------|---|---------|------------|------------|--|
| Benzene | ND | 0.00400 | mg/kg | 1 | OF21003 | 06/21/2010 | 06/22/2010 | |
| Toluene | ND | 0.00400 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00400 | " | " | " | " | " | |
| Xylenes, total | ND | 0.00400 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 95.0 % | 77.6-134 | | | " | " | " | |
| Surrogate: Toluene-d8 | 102 % | 81.4-121 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 111 % | 74.7-123 | | | " | " | " | |

Conductivity by E120.1

| | | | | | | | | |
|--------------|------|---|-------|---|--------|------------|------------|--|
| Conductivity | 60.2 | 2 | US/CM | 1 | 811549 | 06/21/2010 | 06/21/2010 | |
|--------------|------|---|-------|---|--------|------------|------------|--|

Percent Moisture by AD2216A

| | | | | | | | | |
|------------------|------|---|---|---|--------|------------|------------|--|
| Percent Moisture | 2.94 | 1 | % | 1 | 811484 | 06/21/2010 | 06/21/2010 | |
|------------------|------|---|---|---|--------|------------|------------|--|

pH by SW9045C

| | | | | | | | | |
|----|------|--|----|---|--------|------------|------------|--|
| pH | 9.04 | | SU | 1 | 811554 | 06/21/2010 | 06/21/2010 | |
|----|------|--|----|---|--------|------------|------------|--|

Sodium Absorption Ratio (SAR) by S29B08

| | | | | | | | | |
|-------------------------|------|--|--|---|--------|------------|------------|--|
| Sodium absorption ratio | 0.02 | | | 1 | 811801 | 06/23/2010 | 06/23/2010 | |
|-------------------------|------|--|--|---|--------|------------|------------|--|

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Raystate 13.16 SS02
6/17/2010 12:05:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

XENCO

X006136-02 (Soil)

TPH-Carbon Chain by EPA Method 8015M

| | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | OF21002 | 06/21/2010 | 06/21/2010 |
| Diesel (C10-C28) | ND | 50.0 | " | " | " | " | " |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " |
| TPH - Carbon Chain Total | ND | 50.0 | " | " | " | " | " |

Surrogate: o-Terphenyl

95.6 %

65-140

"

"

"

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Raystate 13.16 SS03
6/17/2010 12:10:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.
X006136-03 (Soil)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|---------|-------|---|---------|------------|------------|--|
| Benzene | ND | 0.00400 | mg/kg | 1 | OF21003 | 06/21/2010 | 06/22/2010 | |
| Toluene | ND | 0.00400 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00400 | " | " | " | " | " | |
| Xylenes, total | ND | 0.00400 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | 77.6-134 | | | " | " | " | |
| Surrogate: Toluene-d8 | 98.8 % | 81.4-121 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 108 % | 74.7-123 | | | " | " | " | |

Conductivity by E120.1

| | | | | | | | | |
|--------------|------|---|-------|---|--------|------------|------------|--|
| Conductivity | 81.6 | 2 | US/CM | 1 | 811549 | 06/21/2010 | 06/21/2010 | |
|--------------|------|---|-------|---|--------|------------|------------|--|

Percent Moisture by AD2216A

| | | | | | | | | |
|------------------|------|---|---|---|--------|------------|------------|--|
| Percent Moisture | 14.4 | 1 | % | 1 | 811484 | 06/21/2010 | 06/21/2010 | |
|------------------|------|---|---|---|--------|------------|------------|--|

pH by SW9045C

| | | | | | | | | |
|----|------|--|----|---|--------|------------|------------|--|
| pH | 8.67 | | SU | 1 | 811554 | 06/21/2010 | 06/21/2010 | |
|----|------|--|----|---|--------|------------|------------|--|

Sodium Absorption Ratio (SAR) by S29B08

| | | | | | | | | |
|-------------------------|-------|--|--|---|--------|------------|------------|--|
| Sodium absorption ratio | 0.042 | | | 1 | 811801 | 06/23/2010 | 06/23/2010 | |
|-------------------------|-------|--|--|---|--------|------------|------------|--|

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Raystate 13.16 SS03
6/17/2010 12:10:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

XENCO

X006136-03 (Soil)

TPH-Carbon Chain by EPA Method 8015M

| | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | OF21002 | 06/21/2010 | 06/21/2010 |
| Diesel (C10-C28) | ND | 50.0 | " | " | " | " | " |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " |
| TPH - Carbon Chain Total | ND | 50.0 | " | " | " | " | " |

Surrogate: o-Terphenyl

93.6 %

65-140

"

"

"

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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Raystate 13.16 SS04
6/17/2010 12:15:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|-------|

Origins Laboratory, Inc.
X006136-04 (Soil)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|---------|-------|---|---------|------------|------------|--|
| Benzene | ND | 0.00400 | mg/kg | 1 | OF21003 | 06/21/2010 | 06/22/2010 | |
| Toluene | ND | 0.00400 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00400 | " | " | " | " | " | |
| Xylenes, total | ND | 0.00400 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 94.2 % | 77.6-134 | | | " | " | " | |
| Surrogate: Toluene-d8 | 104 % | 81.4-121 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 115 % | 74.7-123 | | | " | " | " | |

Conductivity by E120.1

| | | | | | | | | |
|--------------|-----|---|-------|---|--------|------------|------------|--|
| Conductivity | 127 | 2 | US/CM | 1 | 811549 | 06/21/2010 | 06/21/2010 | |
|--------------|-----|---|-------|---|--------|------------|------------|--|

Percent Moisture by AD2216A

| | | | | | | | | |
|------------------|------|---|---|---|--------|------------|------------|--|
| Percent Moisture | 16.8 | 1 | % | 1 | 811484 | 06/21/2010 | 06/21/2010 | |
|------------------|------|---|---|---|--------|------------|------------|--|

pH by SW9045C

| | | | | | | | | |
|----|------|--|----|---|--------|------------|------------|--|
| pH | 9.41 | | SU | 1 | 811554 | 06/21/2010 | 06/21/2010 | |
|----|------|--|----|---|--------|------------|------------|--|

Sodium Absorption Ratio (SAR) by S29B08

| | | | | | | | | |
|-------------------------|-------|--|--|---|--------|------------|------------|--|
| Sodium absorption ratio | 0.098 | | | 1 | 811801 | 06/23/2010 | 06/23/2010 | |
|-------------------------|-------|--|--|---|--------|------------|------------|--|

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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Raystate 13.16 SS04
6/17/2010 12:15:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

XENCO

X006136-04 (Soil)

TPH-Carbon Chain by EPA Method 8015M

| | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | OF21002 | 06/21/2010 | 06/21/2010 |
| Diesel (C10-C28) | ND | 50.0 | " | " | " | " | " |
| Residual Range Organics (C28-C36) | ND | 200 | " | " | " | " | " |
| TPH - Carbon Chain Total | ND | 50.0 | " | " | " | " | " |

Surrogate: o-Terphenyl

95.1 %

65-140

"

"

"

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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Extractable Petroleum Hydrocarbons by 8015M - Quality Control Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|-------------|-----------------|----------|-------------|---|---|---------------|------|-----------|-------|
| Batch OF21002 - Default Prep GC-Semi | | | | | | | | | | |
| Blank (OF21002-BLK1) | | | | | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | | |
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | | | | | | | |
| Diesel (C10-C28) | ND | 50.0 | " | | | | | | | |
| Residual Range Organics (C28-C36) | ND | 200 | " | | | | | | | |
| TPH - Carbon Chain Total | ND | 50.0 | " | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | <i>50.0</i> | | <i>g</i> | <i>50.0</i> | | <i>100</i> | <i>65-140</i> | | | |
| LCS (OF21002-BSI) | | | | | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | | |
| Gasoline (C6-C10) | 126 | 50.0 | mg/kg | | | | 65-140 | | | |
| Diesel (C10-C28) | 471 | 50.0 | " | 500 | | 94.1 | 60-140 | | | |
| <i>Surrogate: o-Terphenyl</i> | <i>49.6</i> | | <i>g</i> | <i>50.0</i> | | <i>99.2</i> | <i>65-140</i> | | | |
| Matrix Spike (OF21002-MSI) | | | | | Source: X006135-01 | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | |
| Gasoline (C6-C10) | 123 | 50.0 | mg/kg | | ND | | 65-130 | | | |
| Diesel (C10-C28) | 459 | 50.0 | " | 500 | 31.7 | 85.5 | 60-140 | | | |
| <i>Surrogate: o-Terphenyl</i> | <i>49.1</i> | | <i>g</i> | <i>50.0</i> | | <i>98.1</i> | <i>65-140</i> | | | |
| Matrix Spike Dup (OF21002-MSD1) | | | | | Source: X006135-01 | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | |
| Gasoline (C6-C10) | 113 | 50.0 | mg/kg | | ND | | 65-130 | 9.10 | 20 | |
| Diesel (C10-C28) | 419 | 50.0 | " | 500 | 31.7 | 77.5 | 60-140 | 9.10 | 25 | |
| <i>Surrogate: o-Terphenyl</i> | <i>49.4</i> | | <i>g</i> | <i>50.0</i> | | <i>98.7</i> | <i>65-140</i> | | | |

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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Volatile Organic Compounds by EPA Method 8260B - Quality Control Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|---|-------------|------|-----------|-------|
| Batch OF21003 - EPA 5030B | | | | | | | | | | |
| Blank (OF21003-BLK1) | | | | | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | | |
| Benzene | ND | 0.004 | mg/kg | | | | | | | |
| Toluene | ND | 0.004 | " | | | | | | | |
| Ethylbenzene | ND | 0.004 | " | | | | | | | |
| o-Xylene | ND | 0.004 | " | | | | | | | |
| m,p-Xylene | ND | 0.008 | " | | | | | | | |
| Xylenes, total | ND | 0.004 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 60.7 | | ug/L | 62.5 | | 97.1 | 77.6-134 | | | |
| Surrogate: Toluene-d8 | 63.5 | | " | 62.5 | | 102 | 81.4-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 71.8 | | " | 62.5 | | 115 | 74.7-123 | | | |
| LCS (OF21003-BS1) | | | | | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | | |
| Benzene | 0.20 | 0.004 | mg/kg | 0.200 | | 101 | 75.2-128 | | | |
| Toluene | 0.20 | 0.004 | " | 0.200 | | 98.5 | 76.3-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 63.0 | | ug/L | 62.5 | | 101 | 77.6-134 | | | |
| Surrogate: Toluene-d8 | 64.1 | | " | 62.5 | | 103 | 81.4-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 71.4 | | " | 62.5 | | 114 | 74.7-123 | | | |
| Matrix Spike (OF21003-MS1) | | | | | Source: X006135-02 | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | |
| Benzene | 0.18 | 0.004 | mg/kg | 0.200 | ND | 90.5 | 77.6-132 | | | |
| Toluene | 0.15 | 0.004 | " | 0.200 | ND | 74.4 | 74-136 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 61.6 | | ug/L | 62.5 | | 98.6 | 77.6-134 | | | |
| Surrogate: Toluene-d8 | 64.3 | | " | 62.5 | | 103 | 81.4-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 70.8 | | " | 62.5 | | 113 | 74.7-123 | | | |
| Matrix Spike Dup (OF21003-MSD1) | | | | | Source: X006135-02 | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | |
| Benzene | 0.18 | 0.004 | mg/kg | 0.200 | ND | 90.5 | 77.6-132 | 0.00 | 13.1 | |
| Toluene | 0.15 | 0.004 | " | 0.200 | ND | 74.4 | 74-136 | 0.00 | 20.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 61.6 | | ug/L | 62.5 | | 98.6 | 77.6-134 | | | |
| Surrogate: Toluene-d8 | 64.3 | | " | 62.5 | | 103 | 81.4-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 70.8 | | " | 62.5 | | 113 | 74.7-123 | | | |

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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
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Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Origins Laboratory, Inc.

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

Batch OF21003 - EPA 5030B

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

**Conductivity by E120.1 - Quality Control
XENCO**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|----------------------|-------|----------------|---|------|----------------|-----|--------------|-------|
| Batch 811549 - NONE | | | | | | | | | | |
| LCS (811549-1-BKS) | | Source: 811549-1-BKS | | | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | | |
| Conductivity | 1440 | 2 | US/CM | 1410 | 11.00 | 102 | 80-120 | 0 | 20 | |
| BLANK (811549-1-BLK) | | Source: 811549-1-BLK | | | Prepared: 06/21/2010 Analyzed: 06/21/2010 | | | | | |
| Conductivity | ND | 2 | US/CM | 0.00 | | | - | 0 | 20 | |

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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Percent Moisture by AD2216A - Quality Control XENCO

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

Batch 811484 - NONE

BLANK (811484-1-BLK)

Source: 811484-1-BLK

Prepared: 06/21/2010 Analyzed: 06/21/2010

| | | | | | | | |
|------------------|----|---|---|------|---|---|----|
| Percent Moisture | ND | 1 | % | 0.00 | - | 0 | 20 |
|------------------|----|---|---|------|---|---|----|

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Noelle E Doyle, Laboratory Manager

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Matthew Harrison
Project Number: NEPI023
Project: Noble - Skim Pit Closure

Notes and Definitions

VI [Undefined]

V detected in sample and blank

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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Noelle E Doyle, Laboratory Manager