



- NOTES**
1. ORIGINAL DRAWING IN COLOUR.
 2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED ON SITE. NOT ALL UTILITIES MAY BE SHOWN.
 3. 2007 ORTHO AIR PHOTO.

LEGEND

TEST PIT

REFERENCE DRAWINGS

2007 AERIAL PHOTO – COPYRIGHT © CAPITAL REGIONAL DISTRICT

REVISIONS

| REV. | DATE | DESCRIPTION | BY | CHK |
|------|------|-------------|----|-----|
| 0 | | | | |



CLIENT NAME: DEPARTMENT OF NATIONAL DEFENCE PROJECT LOCATION: CFB ESQUIMALT ESQUIMALT, BC

TITLE: **COL-15 SITE PLAN AND TEST PIT LOCATIONS**

DWN BY: PRT/PB SCALE: 1:1,000 DATE: 2015-12-15 DWG No: REV: 0
 PLOT: 20151215.1108 CADFILE: **632733-003**



Client
Defence Construction Canada

Test Pit No. : TP15-01

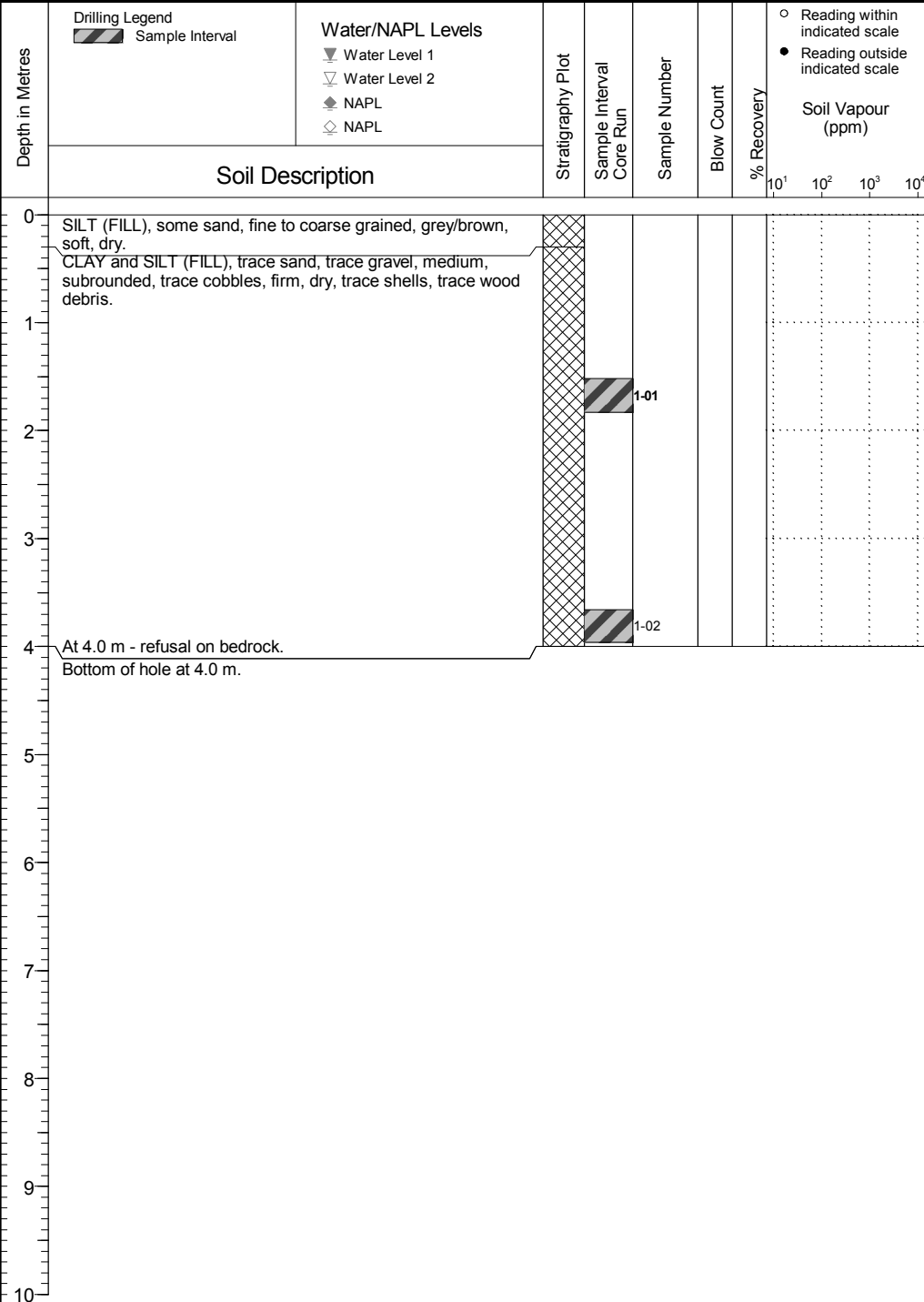
Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5365022.000 Easting: 466885.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS



NOTES
Bolded sample denotes sample analyzed.



Client
Defence Construction Canada

Test Pit No. : TP15-02

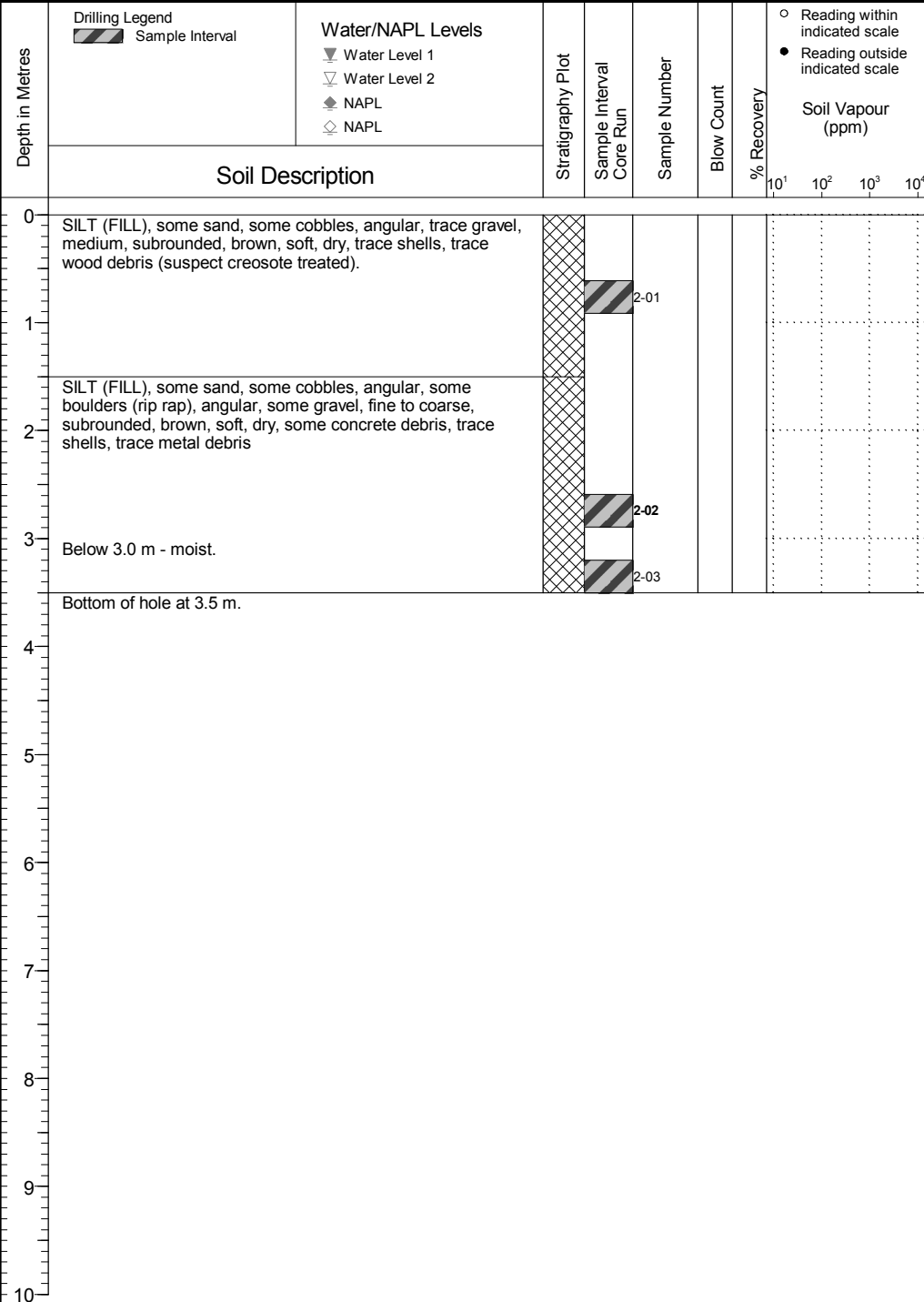
Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
 Drilling Method Excavator
 Borehole Dia. (m) n/a
 Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
 Ground Surface Elev. (m) n/a
 Top of Casing Elev. (m) n/a
 Northing: 5365009.000 Easting: 466902.000

Project Number: 504542
 Borehole Logged By: ME
 Date Drilled: 2015 07 22
 Log Typed By: NDS



Drilling Legend
 Sample Interval

Water/NAPL Levels

- Water Level 1
- Water Level 2
- NAPL
- NAPL

- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm)

Print Date: 2015.08.17 QA1: ME Date Approved: 2015.08.17

NOTES

Bolded sample denotes sample analyzed.



Client
Defence Construction Canada

Test Pit No. : TP15-03

Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5365000.000 Easting: 466915.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS

| Depth in Metres | Drilling Legend | Water/NAPL Levels | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm) |
|------------------|--|--|-------------------|-----------------------------|---------------|------------|------------|----------------------|
| | ▨ Sample Interval | ▽ Water Level 1 ▽ Water Level 2 ◆ NAPL ◇ NAPL | | | | | | |
| Soil Description | | | | | | | | |
| 0 | SILT (FILL), some sand, fine to coarse grained, some gravel, fine to coarse, subrounded, trace cobbles, light brown, soft, dry, trace shells, trace wood debris. | | | 3-01 | | | | |
| 1 | | | | 3-02 | | | | |
| 2 | Bottom of hole at 2.0 m. | | | 3-03 | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |

NOTES
Bolded sample denotes sample analyzed.



Client
Defence Construction Canada

Test Pit No. : TP15-04

Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5365026.000 Easting: 466902.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS

| Depth in Metres | Soil Description | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | Soil Vapour (ppm) | | | |
|-----------------|--|-------------------|-----------------------------|---------------|------------|------------|-------------------|-----------------|-----------------|-----------------|
| | | | | | | | 10 ¹ | 10 ² | 10 ³ | 10 ⁴ |
| 0 | SILT (FILL), some sand, fine to coarse grained, some gravel, fine to coarse, subangular, trace cobbles, trace boulders (rip rap), trace wood debris. | | 4-01 | 4-01 | | | | | | |
| 1 | Below 1.3 m - trace clay. | | 4-02 | 4-02 | | | | | | |
| 2 | | | 4-03 | 4-03 | | | | | | |
| 3 | SILT (FILL), some clay, trace sand, trace gravel, subrounded, trace cobbles, trace boulders, grey/brown, soft, damp. | | 4-04 | 4-04 | | | | | | |
| 3.5 | Bottom of hole at 3.5 m. | | | | | | | | | |

Drilling Legend
Sample Interval

Water/NAPL Levels

- Water Level 1
- Water Level 2
- NAPL
- NAPL

- Reading within indicated scale
- Reading outside indicated scale

Soil Vapour (ppm)

NOTES

Bolded sample denotes sample analyzed.



Client
Defence Construction Canada

Test Pit No. : TP15-05

Location
Col. 15, Esquimalt, BC

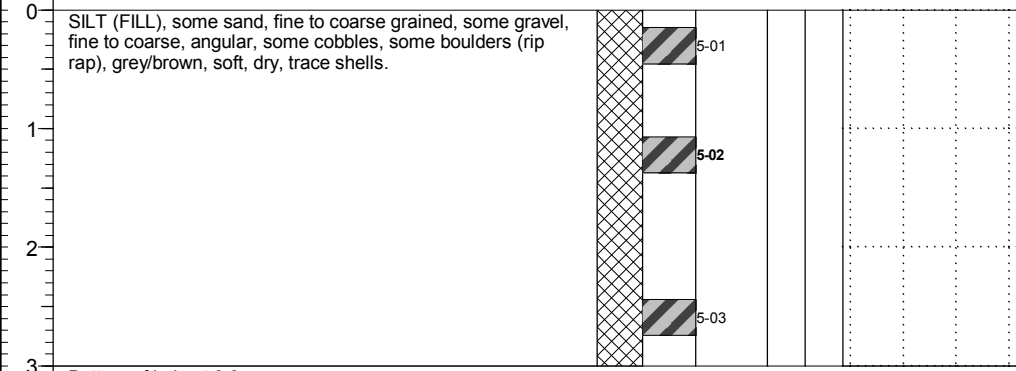
PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5364979.000 Easting: 466926.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS

| | | | | | | | | | |
|-----------------|--------------------------------------|---|-------------------|-----------------------------|---------------|------------|------------|-----------------------------------|-------------------|
| Depth in Metres | Drilling Legend ▨ Sample Interval | Water/NAPL Levels ▽ Water Level 1 ▽ Water Level 2 ◆ NAPL ◇ NAPL | Stratigraphy Plot | Sample Interval Core Run | Sample Number | Blow Count | % Recovery | ○ Reading within indicated scale | Soil Vapour (ppm) |
| | Soil Description | | | | | | | ● Reading outside indicated scale | |



NOTES
Bolded sample denotes sample analyzed.



Client
Defence Construction Canada

Test Pit No. : TP15-06

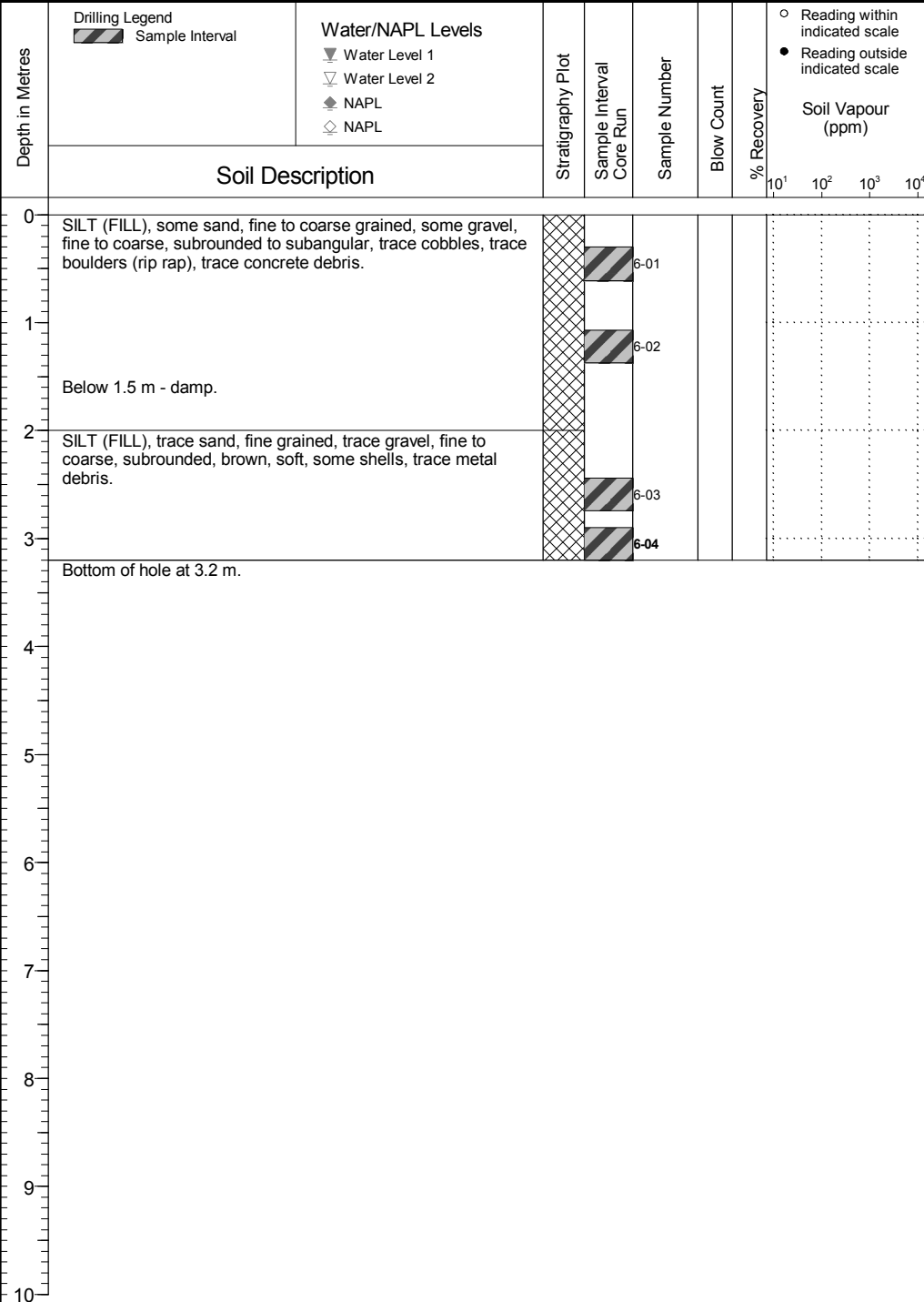
Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5364977.000 Easting: 466911.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS



NOTES
Bolded sample denotes sample analyzed.

Print Date: 2015.08.17 QA1: ME Date Approved: 2015.08.17



Client
Defence Construction Canada

Test Pit No. : TP15-07

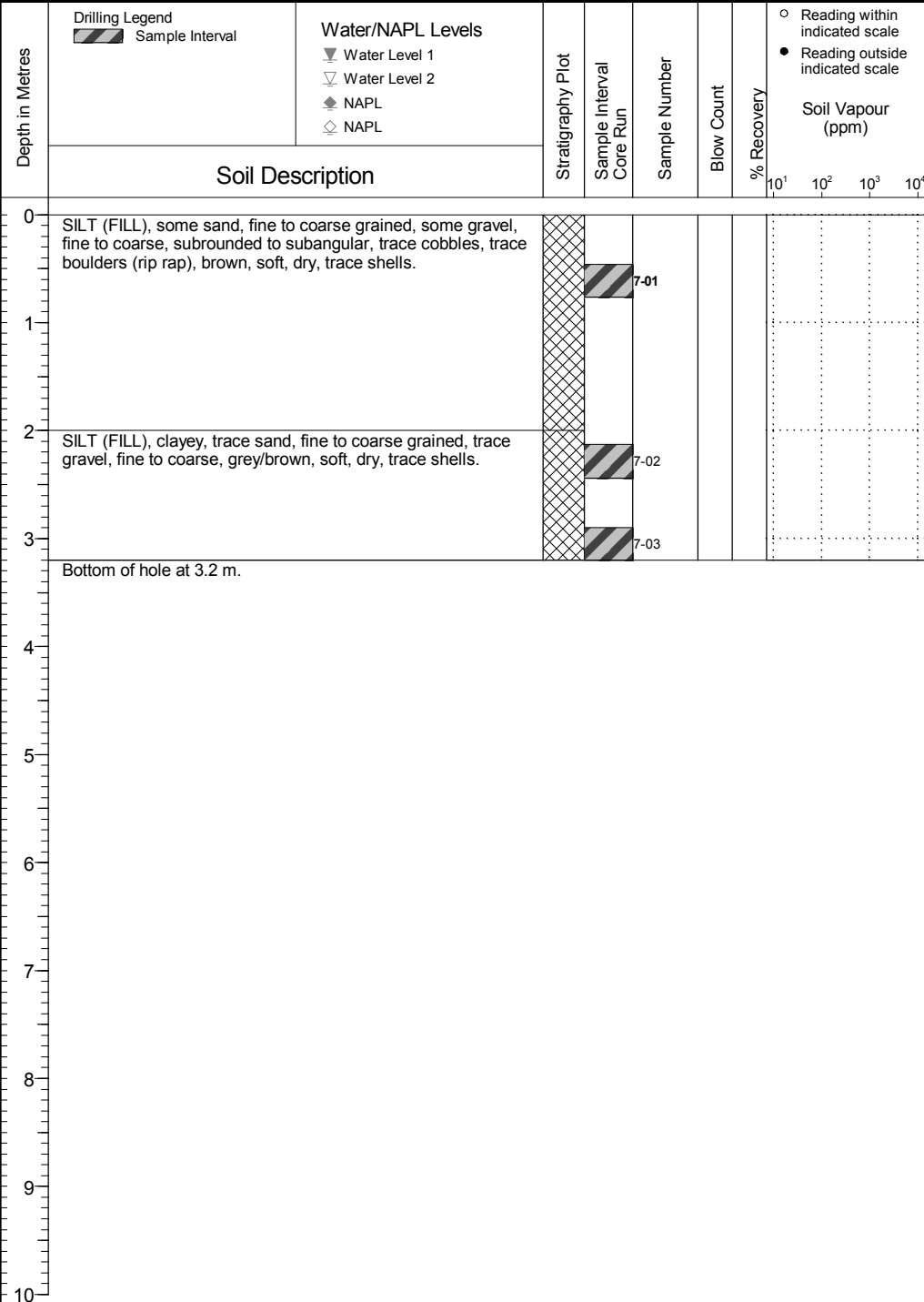
Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5364970.000 Easting: 466896.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS



NOTES
Bolded sample denotes sample analyzed.

Print Date: 2015.08.17 QA1: ME Date Approved: 2015.08.17



Client
Defence Construction Canada

Test Pit No. : TP15-08

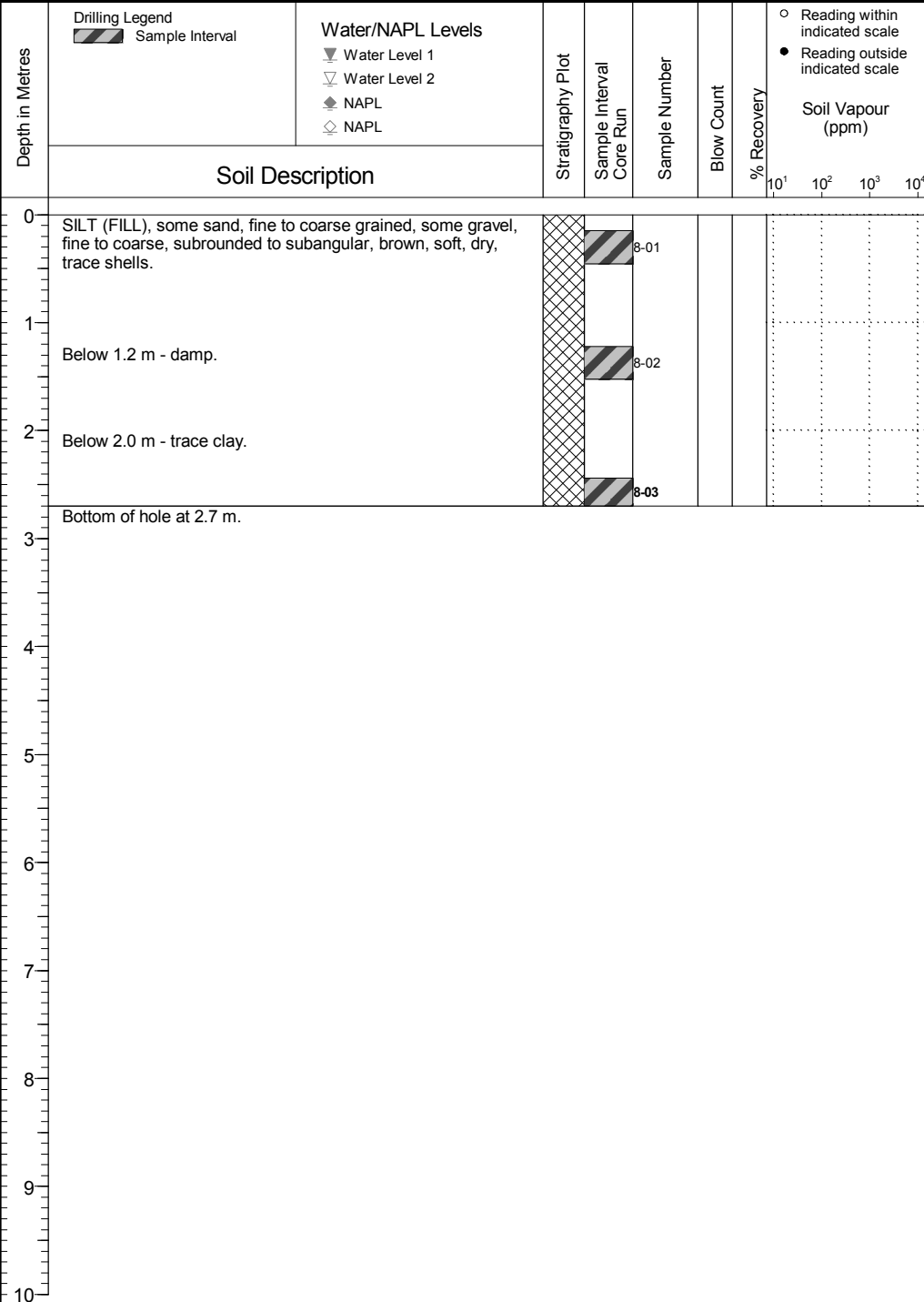
Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5364970.000 Easting: 466886.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS



NOTES
Bolded sample denotes sample analyzed.



Client
Defence Construction Canada

Test Pit No. : TP15-09

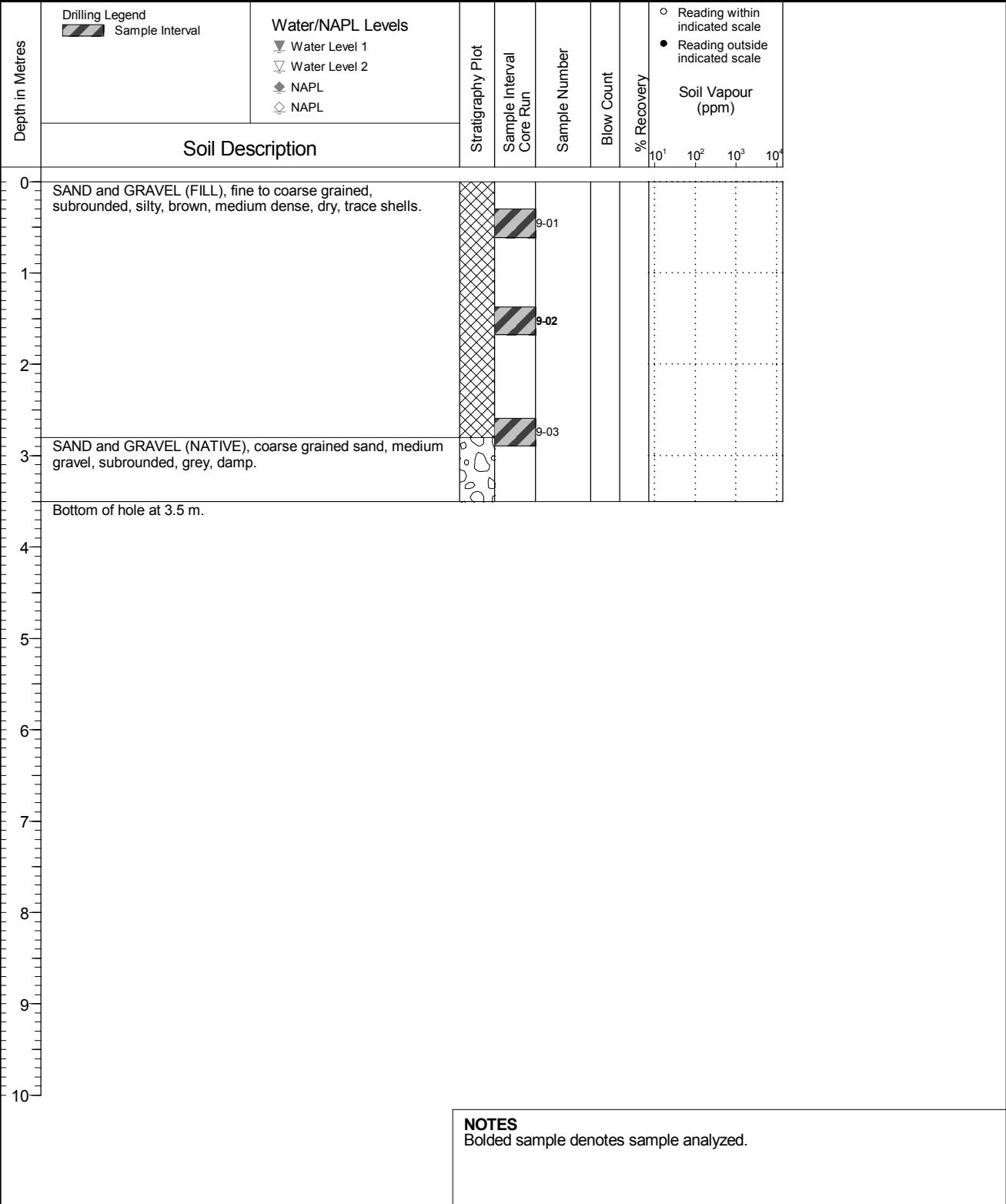
Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5364966.000 Easting: 466865.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS



Print Date: 2015.08.17 QA1: ME Date Approved: 2015.08.17



Client
Defence Construction Canada

Test Pit No. : TP15-10

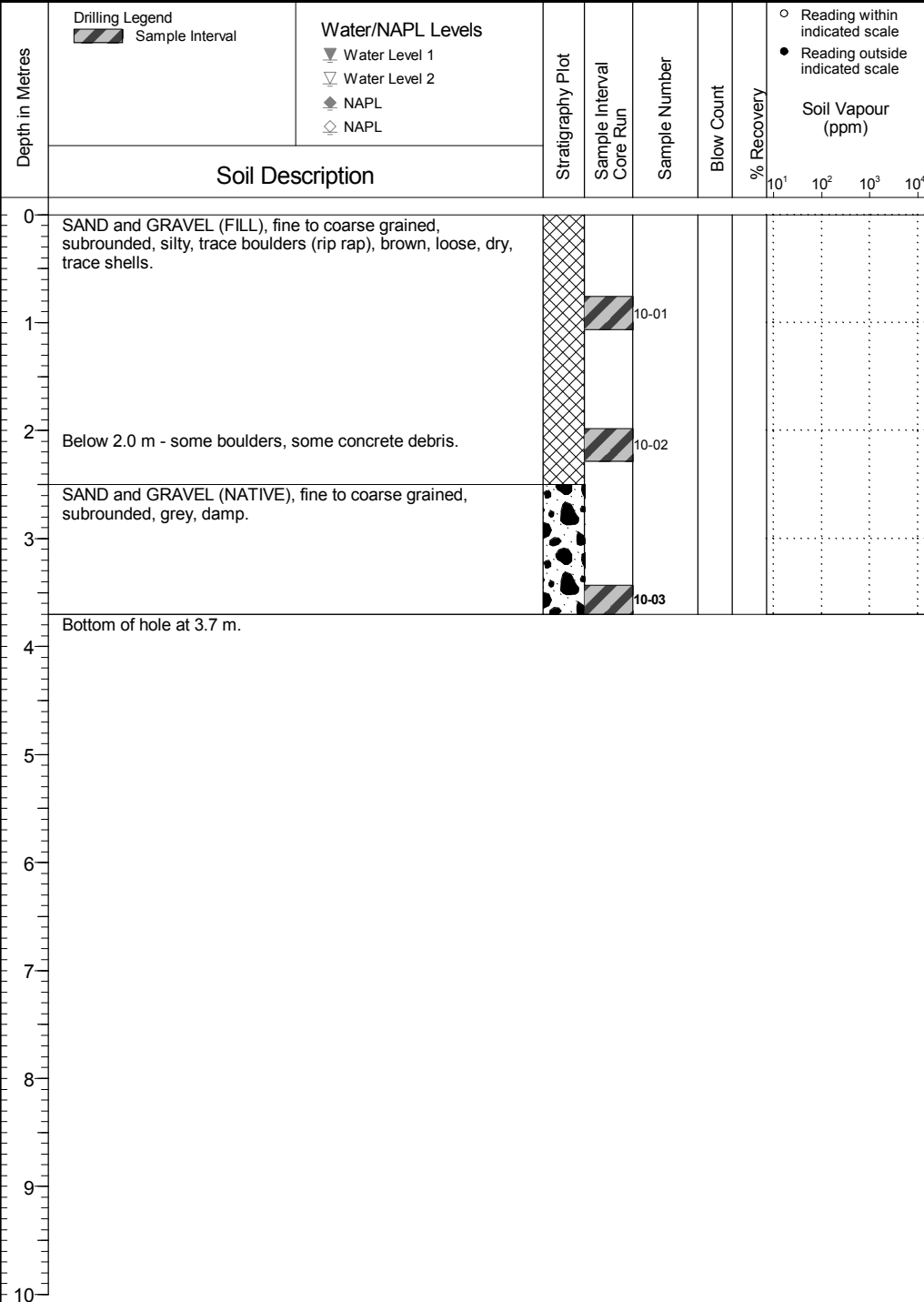
Location
Col. 15, Esquimalt, BC

PAGE 1 OF 1

Drilling Contractor Tervita Corporation
Drilling Method Excavator
Borehole Dia. (m) n/a
Pipe/Slotted Pipe Dia. (m) none/none

Date Monitored n/a
Ground Surface Elev. (m) n/a
Top of Casing Elev. (m) n/a
Northing: 5364961.000 Easting: 466859.000

Project Number: 504542
Borehole Logged By: ME
Date Drilled: 2015 07 22
Log Typed By: NDS



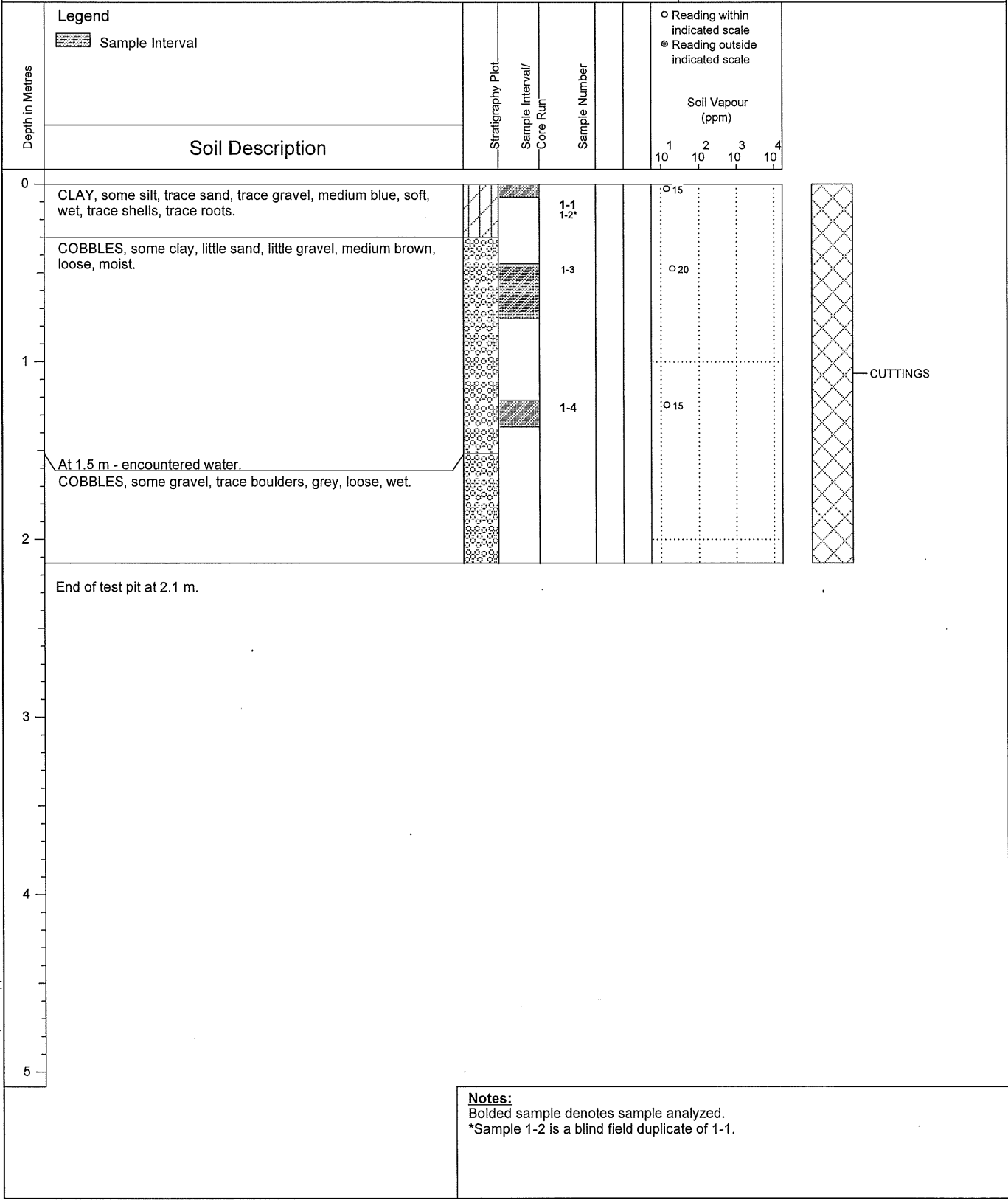
NOTES
Bolded sample denotes sample analyzed.

Print Date: 2015.08.17 QA1: ME Date Approved: 2015.08.17



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

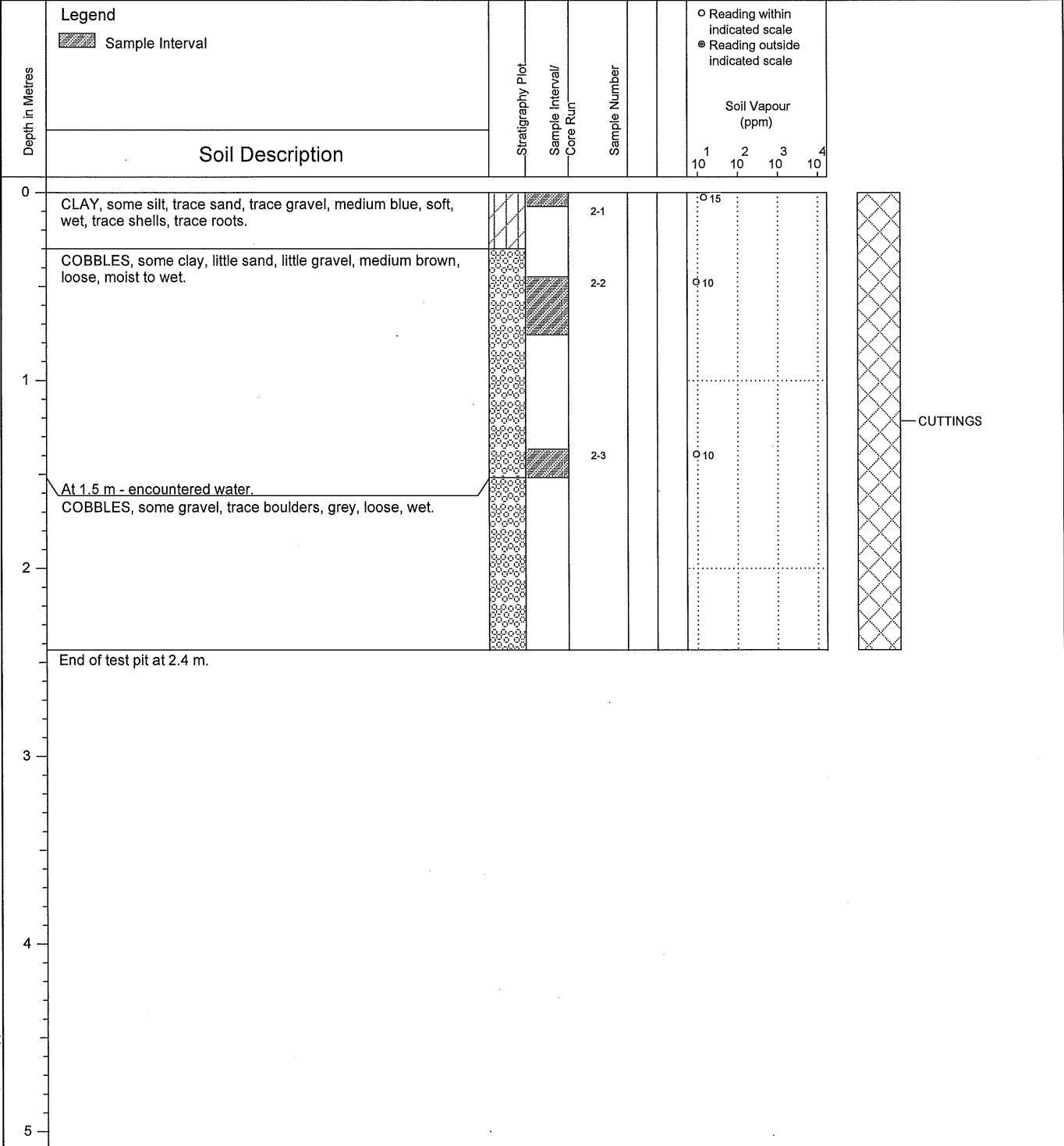


Notes:
Bolded sample denotes sample analyzed.
 *Sample 1-2 is a blind field duplicate of 1-1.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

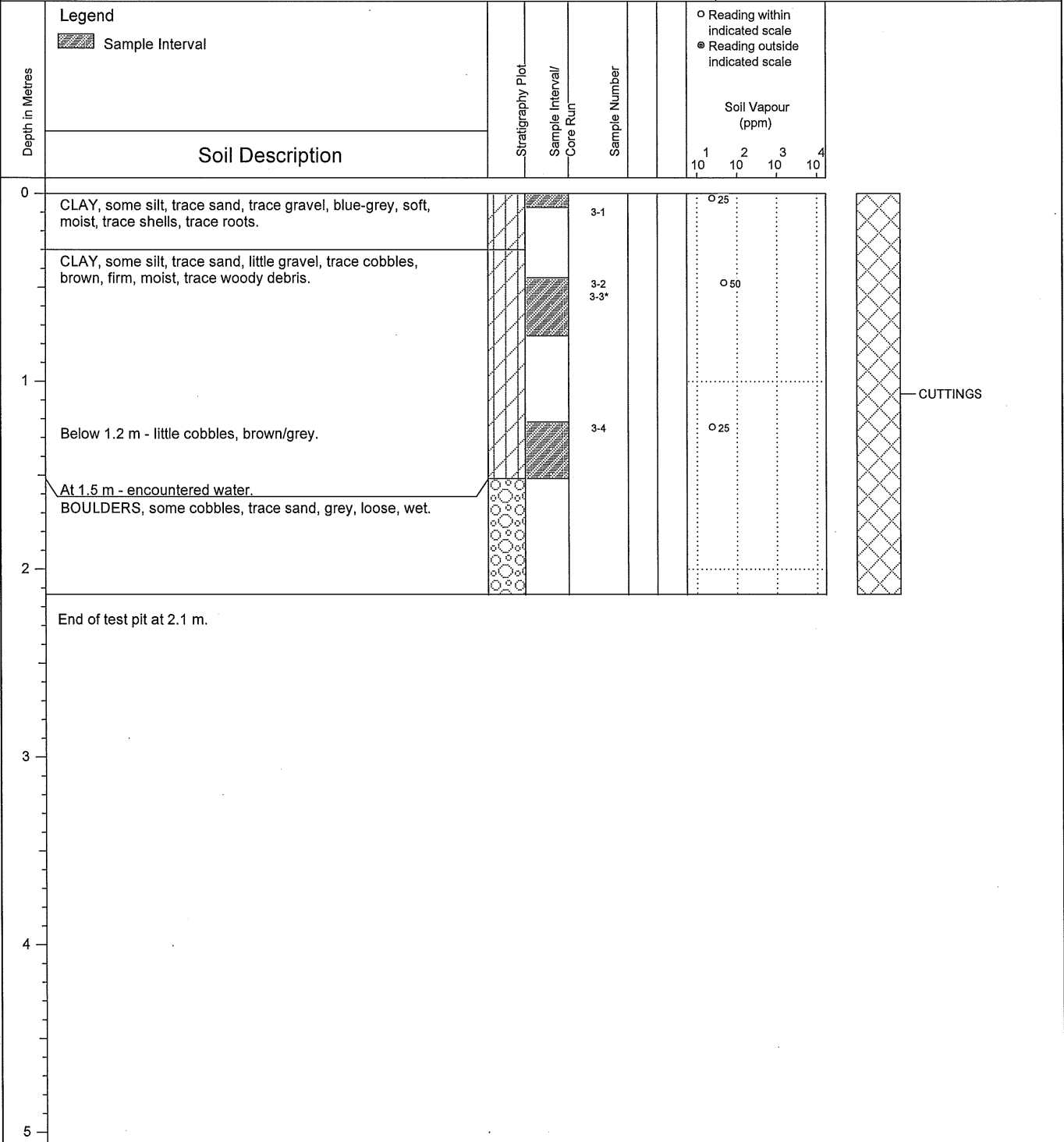


Notes:
Bolted sample denotes sample analyzed.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

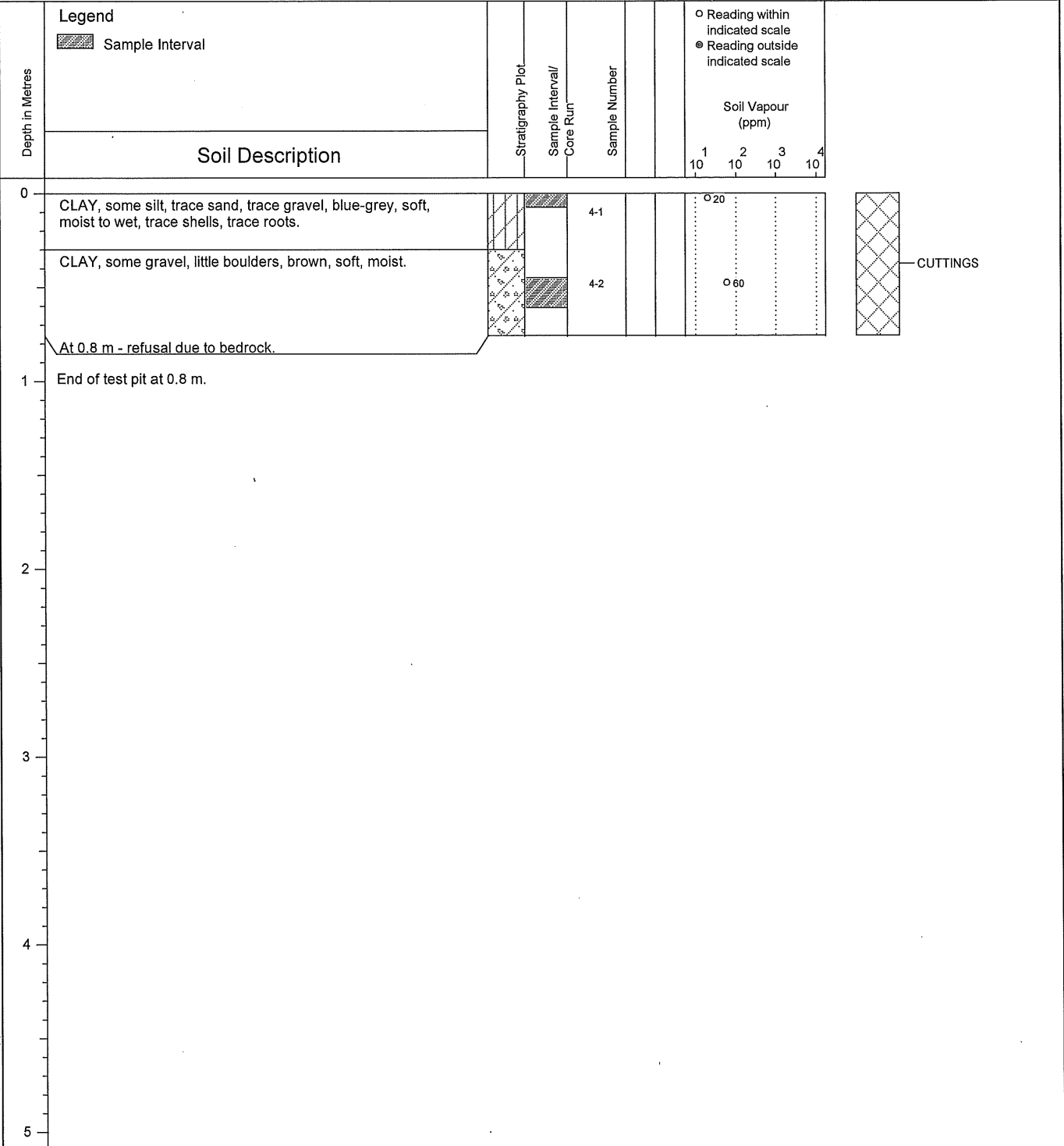


Notes:
Boded sample denotes sample analyzed.
*Sample 3-3 is a blind field duplicate of 3-2.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR



Notes:
Bolded sample denotes sample analyzed.



**SNC-LAVALIN
Environment**

Client :
Defence Construction Canada

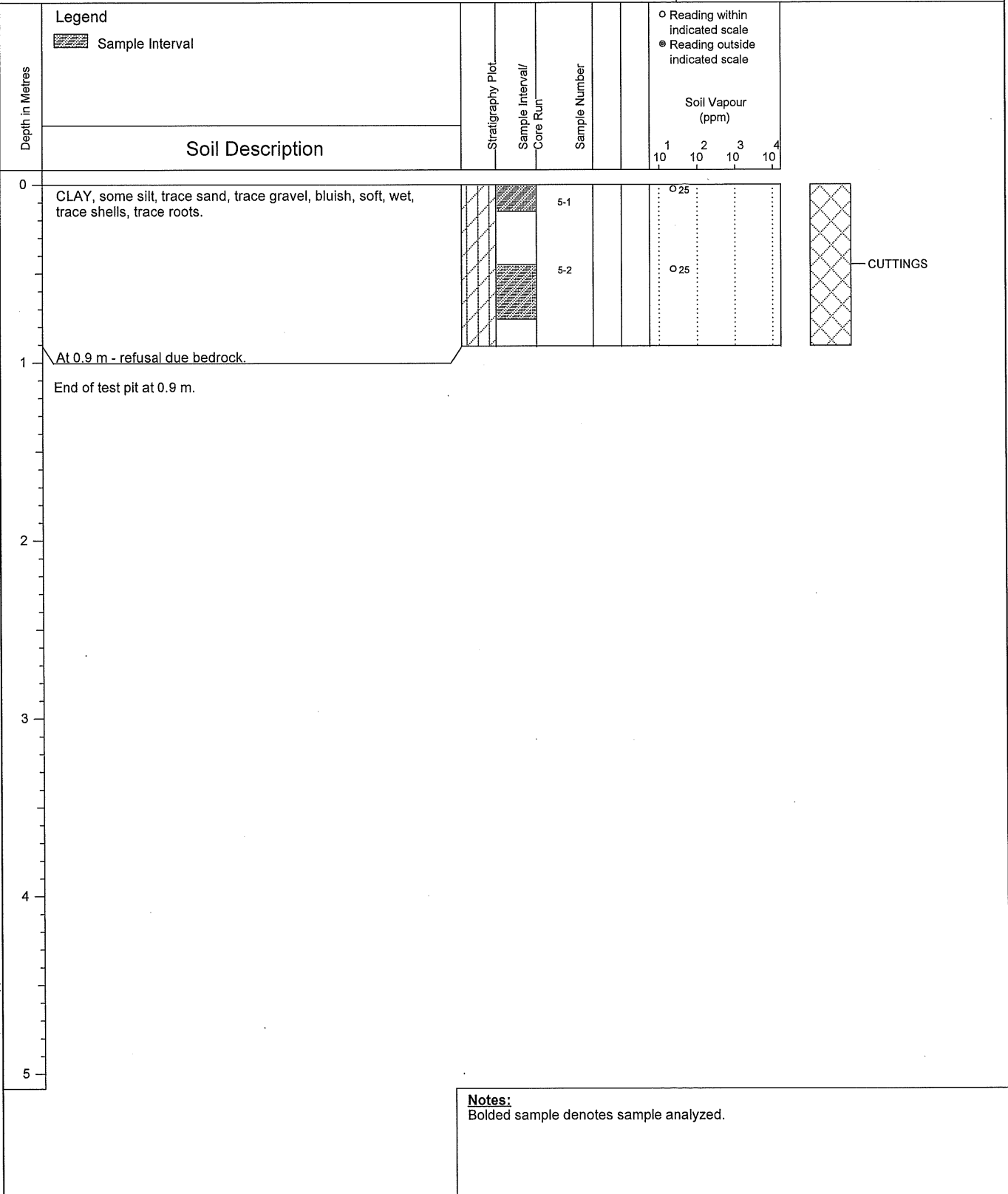
Test Pit No. : 10-5

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR





**SNC-LAVALIN
Environment**

Client :
Defence Construction Canada

Test Pit No. : 10-6

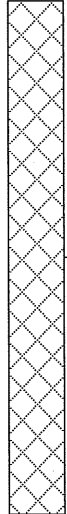
Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

| Depth in Metres | Legend | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | | | | |
|------------------|--|-------------------|------------------------------|---------------|-------------------|----|----|----|--|
| | ▨ Sample Interval | | | | 1 | 2 | 3 | 4 | |
| Soil Description | | | | | 10 | 10 | 10 | 10 | |
| 0 | CLAY, some silt, trace gravel, blue grey, soft, moist, trace shells, trace roots, trace debris (cables). | | | 6-1 | ○ 15 | | | | |
| | COBBLES, some clay, little sand, little gravel, medium brown, loose, moist. | | | | ● 20 | | | | |
| 1 | COBBLES, some gravel, trace boulders, grey/green, loose, wet. | | | | | | | | |
| | At 1.5 m - encountered water. | | | | | | | | |
| 2 | At 2.1 m - refusal due to bedrock/large boulders. | | | | | | | | |
| | End of test pit at 2.1 m. | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |



CUTTINGS

Notes:
Bolted sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada


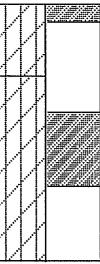

Test Pit No. : 10-7

Location :
Col. 15, Esquimalt, BC

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Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

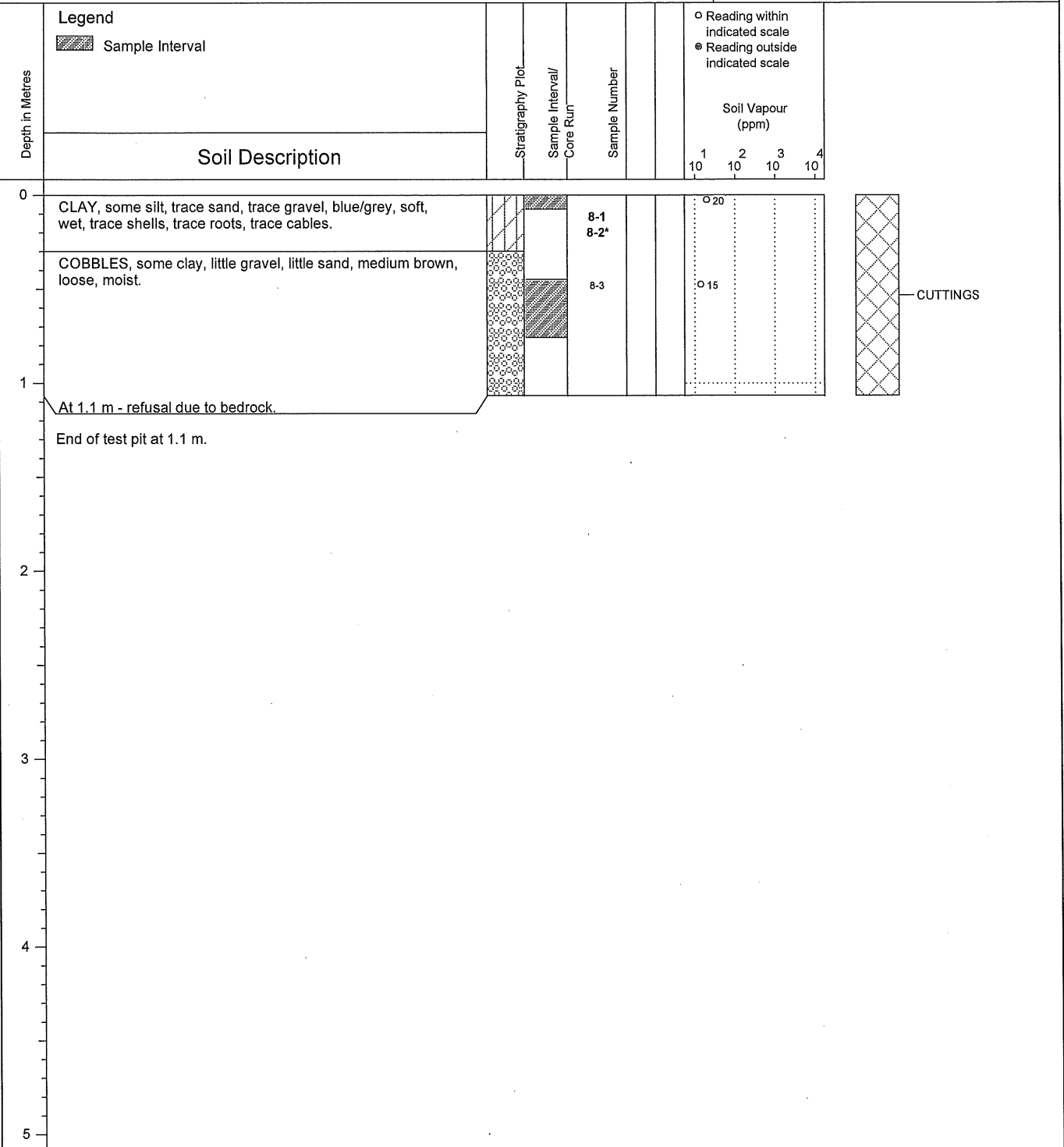
| Depth in Metres | Legend | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | CUTTINGS |
|-----------------|---|---|------------------------------|---------------|-------------------|---|
| |  Sample Interval Soil Description | | | | | |
| 0 | CLAY, some silt, trace sand, trace gravel, grey-blue, soft, wet, trace shells, trace roots, trace debris. |  | 7-1 | | ○ 15 |  |
| | CLAY, some silt, trace sand, little gravel, trace cobbles, brown, firm, moist, trace woody debris. | | 7-2 | | ○ 30 | |
| 1 | At 1.1 m - refusal due to bedrock. | End of test pit at 1.1 m. | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

Notes:
Bolded sample denotes sample analyzed.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR



Notes:
Bolded sample denotes sample analyzed.
*Sample 8-2 is a blind field duplicate of 8-1.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada




Test Pit No. : 10-9

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

| Depth in Metres | Legend | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | | | |
|-----------------|---|---|------------------------------|---------------|-------------------|------|---|---|
| |  Sample Interval | | | | 1 | 2 | 3 | 4 |
| | Soil Description | | | | | | | |
| 0 | CLAY, some silt, trace sand, trace gravel, blue-grey, soft, moist, trace shells, trace roots. |  | | 9-1 | | ○ 20 | | |
| | COBBLES, some clay, little gravel, little sand, medium brown, loose, dry. |  | | 9-2 | | ○ 25 | | |
| | At 0.6 m - bedrock. | | | | | | | |
| | End of test pit at 0.6 m. | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

Notes:
Bolded sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

Test Pit No. : 10-10

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

| Depth in Metres | Legend | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | CUTTINGS |
|------------------|---|-------------------|------------------------------|---------------|-------------------|----------|
| | Sample Interval Reading within indicated scale Reading outside indicated scale | | | | | |
| Soil Description | | | | | | |
| 0 | CLAY, some silt, trace sand, trace gravel, grey/blue, soft, wet, trace shells, trace roots, trace debris. | | | 10-1 | ○ 15 | |
| | Below 0.5 m - trace boulders, trace cobbles, no roots. | | | 10-2 | ○ 25 | |
| 1 | At 1.1 m - encountered water. | | | | | |
| | At 1.2 m - refusal due to bedrock. | | | | | |
| | End of test pit at 1.2 m. | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

Notes:
Bolted sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

Test Pit No. : 10-11

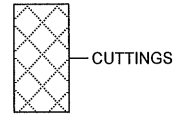
Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

| Depth in Metres | Legend | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | ○ Reading within indicated scale ● Reading outside indicated scale |
|-----------------|---|-------------------|------------------------------|---------------|-------------------|---|
| | Sample Interval | | | | | |
| 0 | | | | 11-1 11-2* | ○ 15 | |
| | CLAY, some silt, trace sand, trace gravel, blue/grey, soft, moist to wet, trace shells trace roots. | | | | | |
| | At 0.5 m - refusal due to bedrock. | | | | | |
| | End of test pit at 0.5 m. | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |



Notes:
Boded sample denotes sample analyzed.
*Sample 11-2 is a blind field duplicate of 11-1.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

Test Pit No. : 10-12

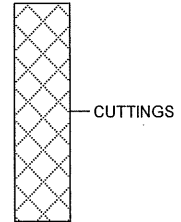
Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

| Depth in Metres | Legend | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | | | |
|-----------------|---|-------------------|------------------------------|---------------|-------------------|---------|---------|---------|
| | Soil Description | | | | 1 10 | 2 10 | 3 10 | 4 10 |
| 0 | <p>CLAY, some silt, trace sand, trace gravel, blue/grey, soft, moist, trace shells, trace roots.</p> <p>COBBLES, some clay, little sand, little gravel, medium brown, loose, moist.</p> | | 12-1 | | 0 | | | |
| 1 | <p>At 0.9 m - refusal due to bedrock.</p> <p>End of test pit at 0.9 m.</p> | | 12-2 | | 0 | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |



Notes:
Bolted sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

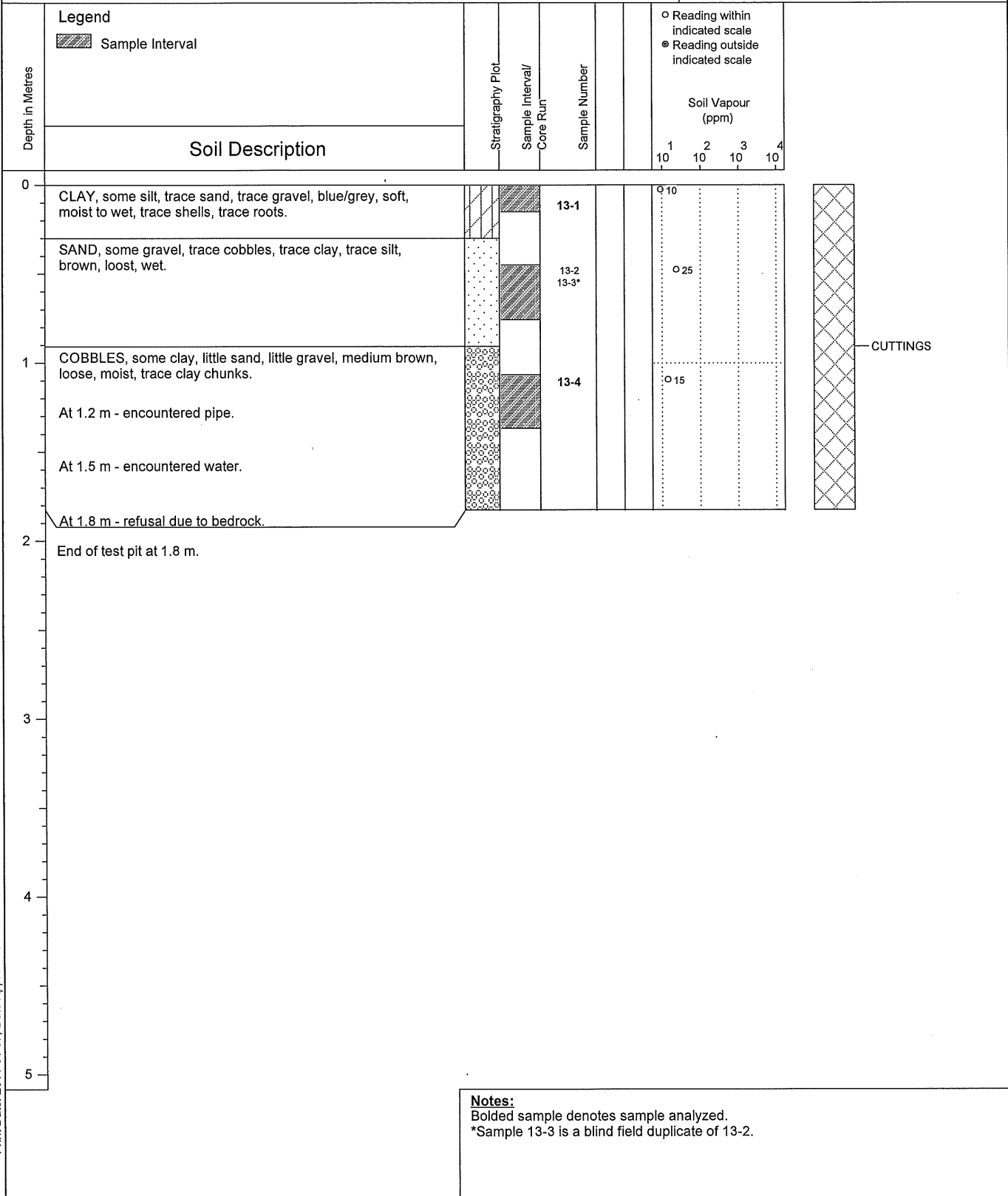
Test Pit No. : 10-13

Location :
Col. 15, Esquimalt, BC

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Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

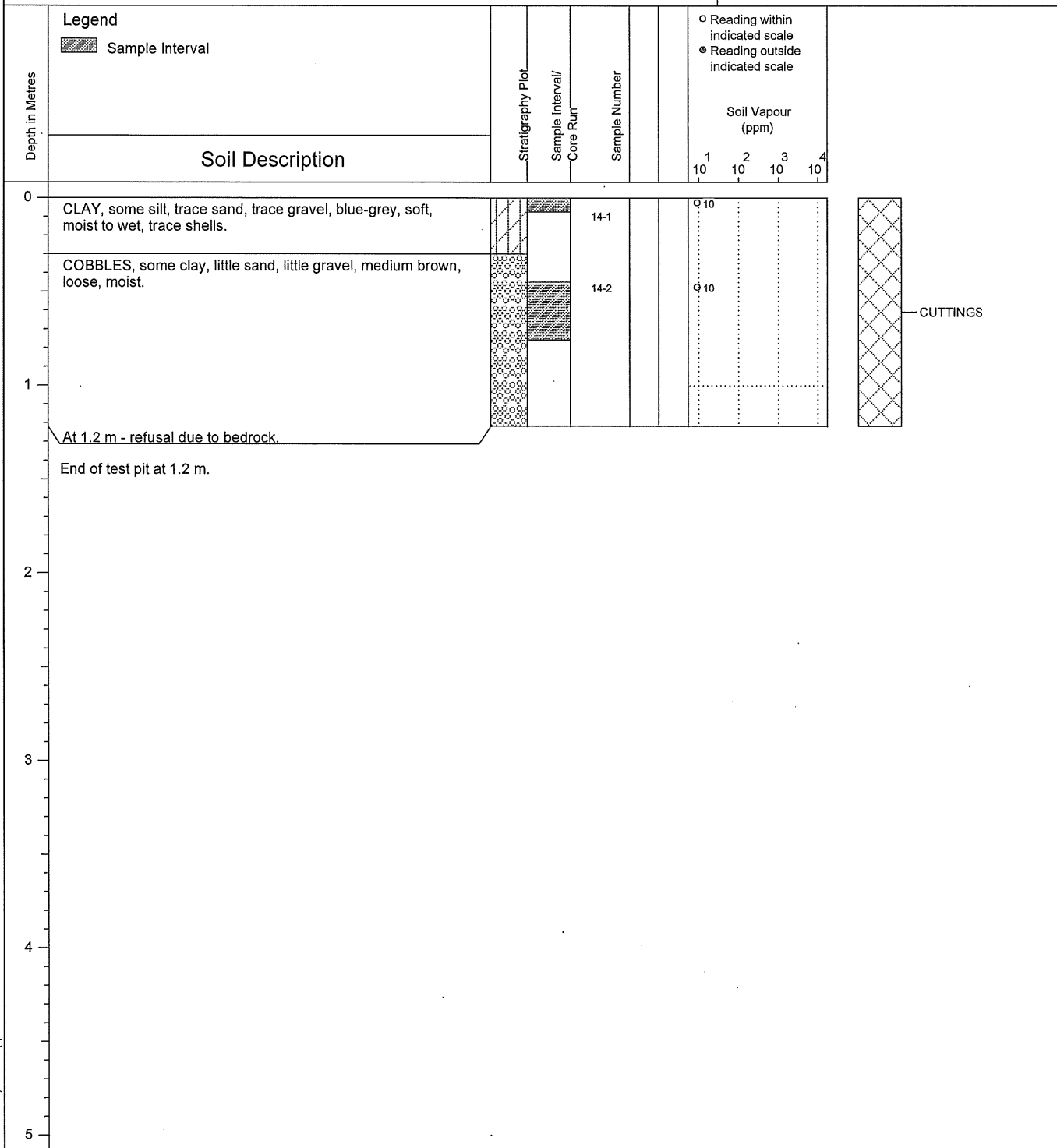


Notes:
 Bolded sample denotes sample analyzed.
 *Sample 13-3 is a blind field duplicate of 13-2.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR



Notes:
Bolded sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

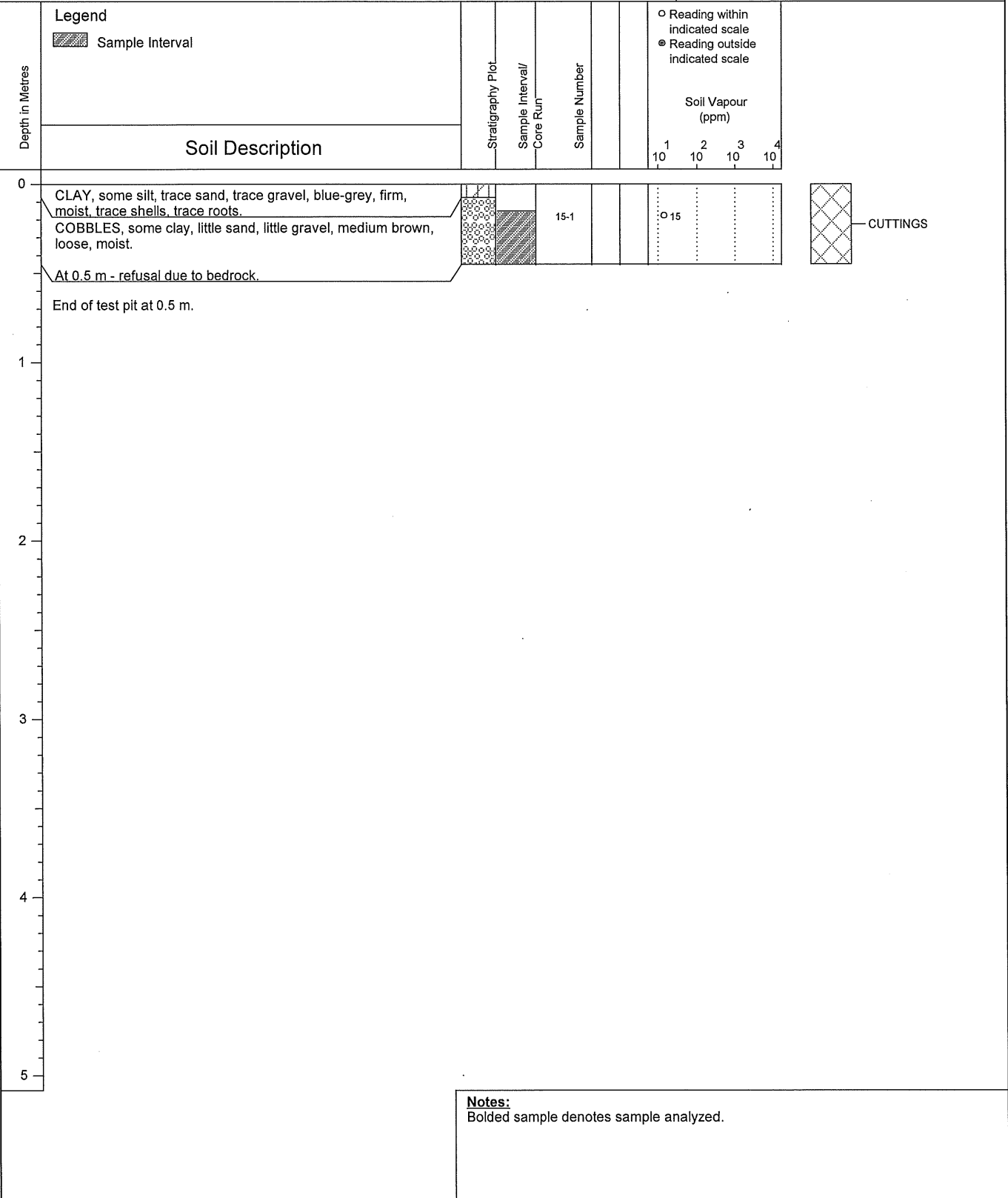
Test Pit No. : 10-15

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR



Notes:
Bolded sample denotes sample analyzed.



**SNC-LAVALIN
Environment**

Client :
Defence Construction Canada

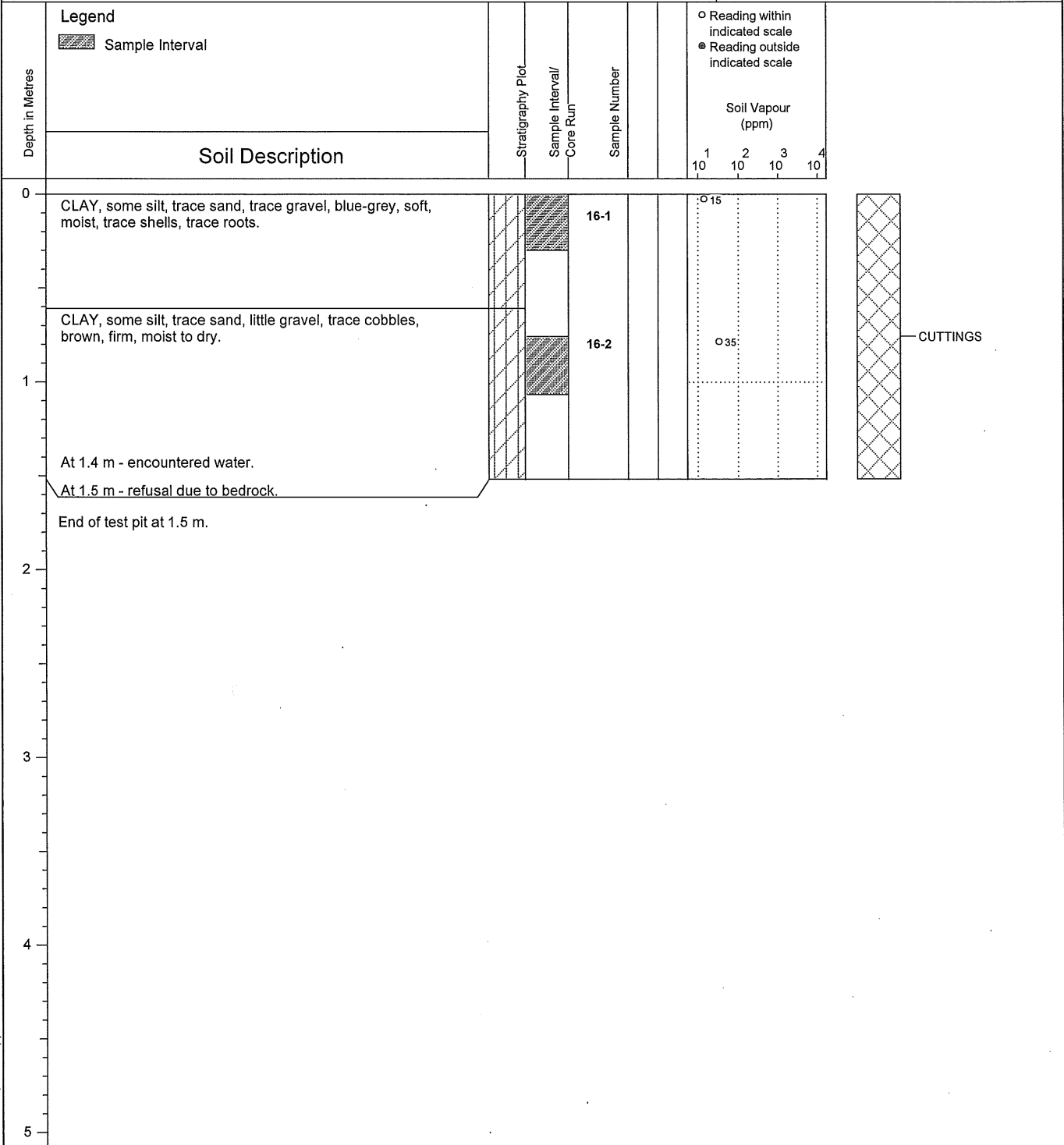
Test Pit No. : 10-16

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

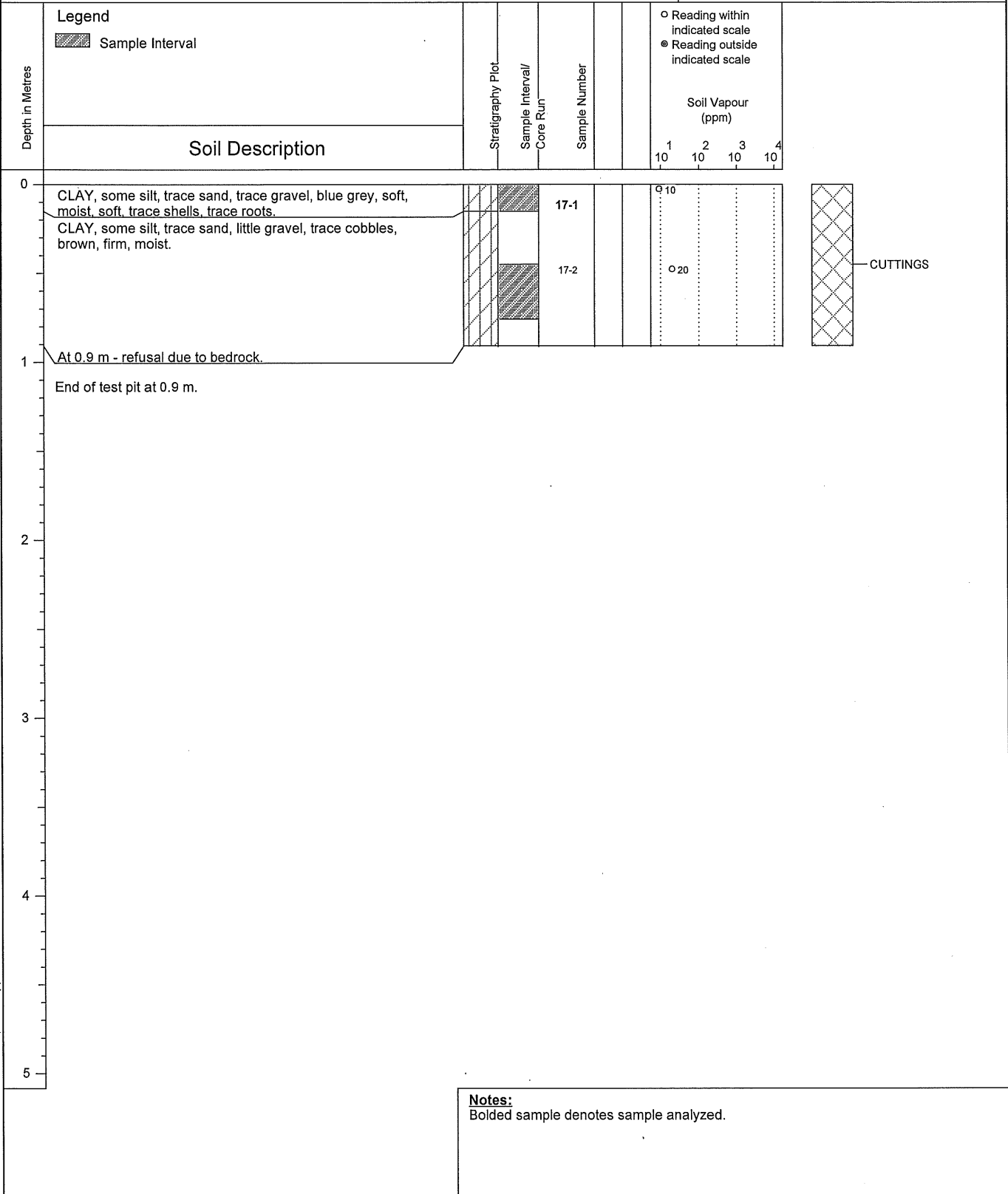


Notes:
Bolted sample denotes sample analyzed.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

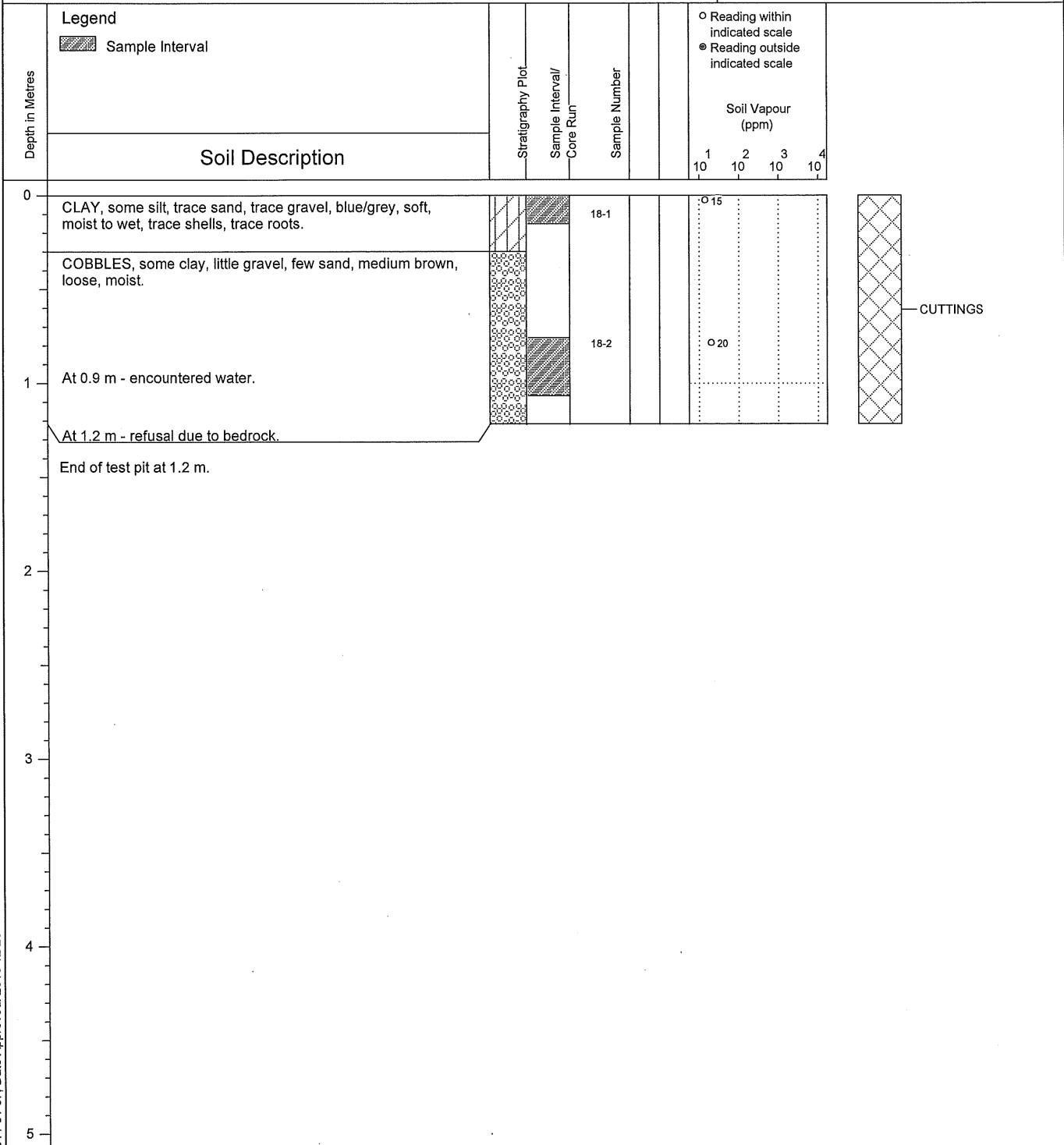


Notes:
Bolded sample denotes sample analyzed.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR



Notes:
Bolded sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

Test Pit No. : 10-19

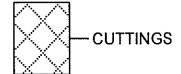
Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR

| Depth in Metres | Legend | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | ○ Reading within indicated scale ● Reading outside indicated scale |
|-----------------|--|-------------------|------------------------------|---------------|-------------------|---|
| | Sample Interval | | | | | |
| 0 | CLAY, some silt, trace sand, trace gravel, blue/grey, soft, moist, trace shells trace roots. | | | 19-1 | ● | |
| | At 0.3 m - refusal due to bedrock. | | | | | |
| | End of test pit at 0.3 m. | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |



Notes:
Bolted sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

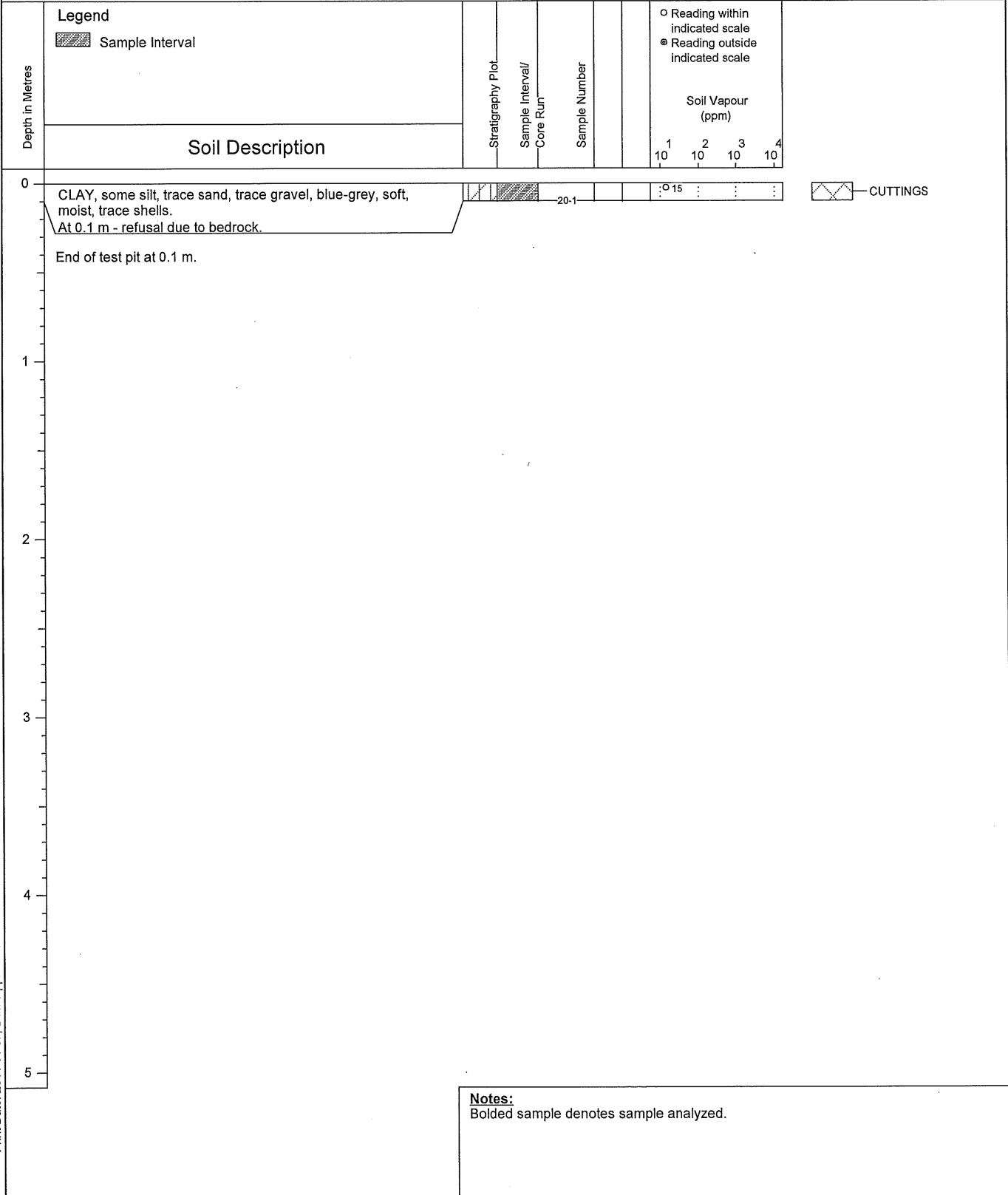
Test Pit No. : 10-20

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR



Notes:
Bolted sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

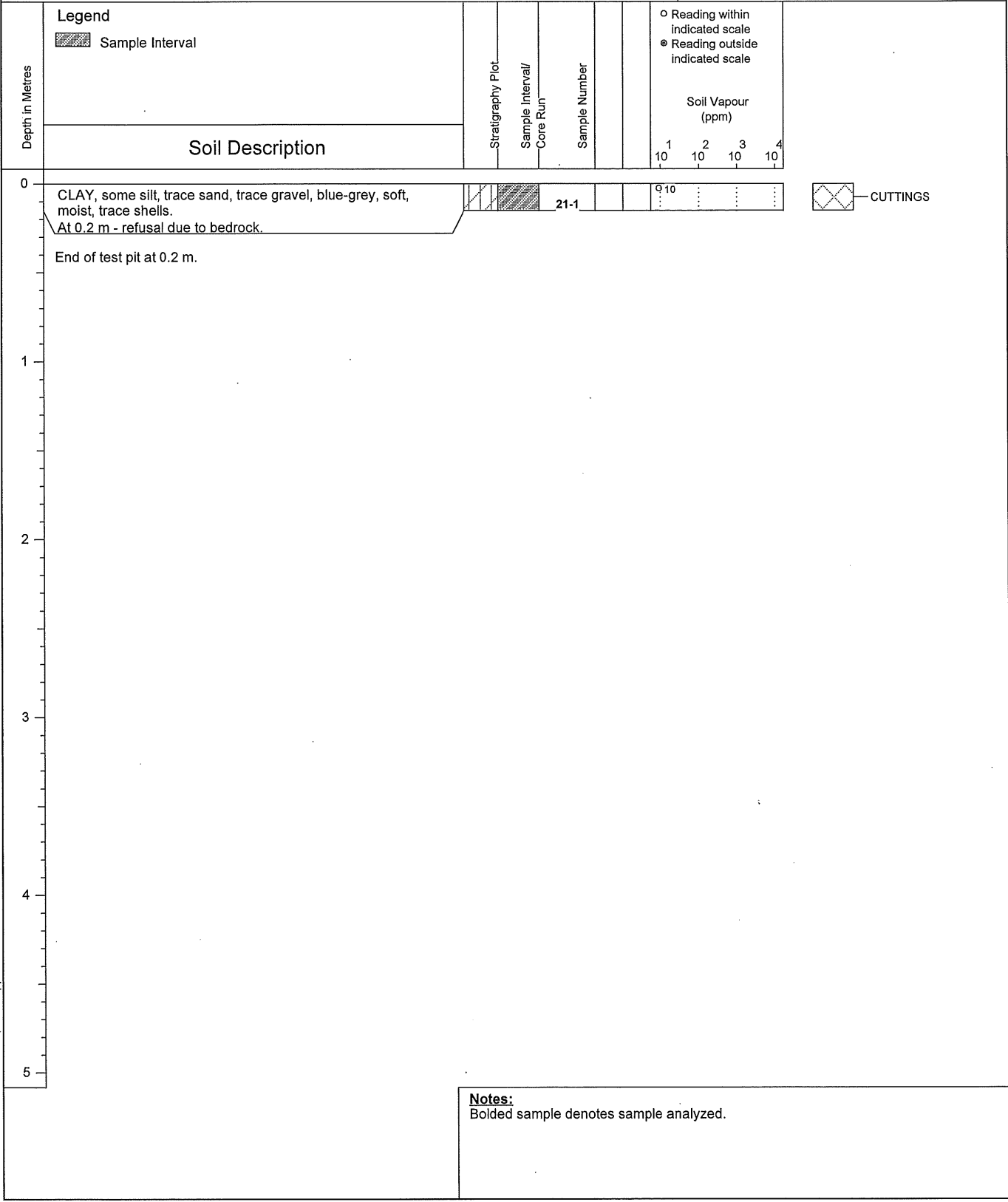
Test Pit No. : 10-21

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR



Notes:
Bolted sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

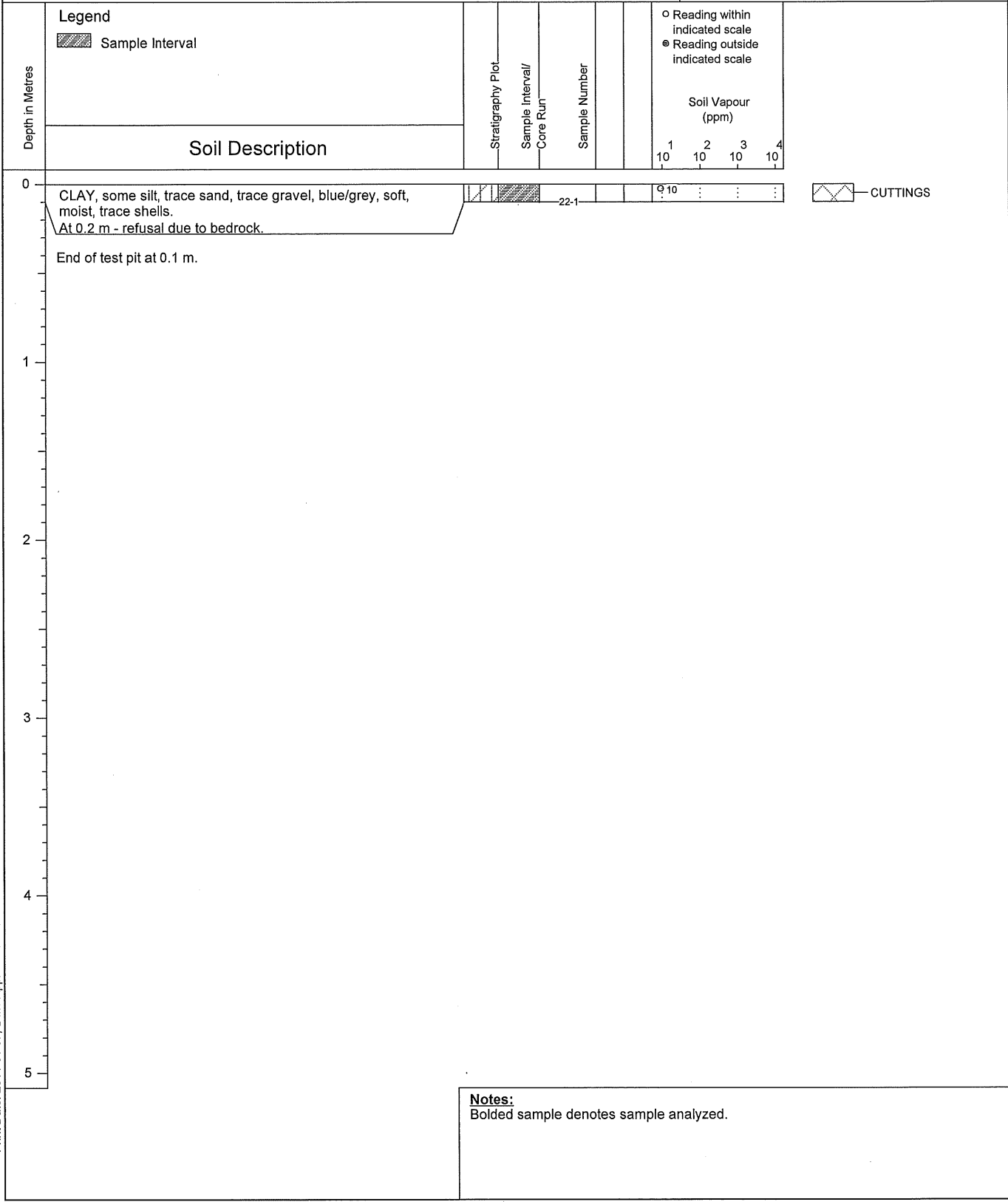
Test Pit No. : 10-22

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 14
Log Typed By : MAL/AR



Notes:
Bolted sample denotes sample analyzed.



**SNC-LAVALIN
Environment**

Client :
Defence Construction Canada

Test Pit No. : 10-23

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR

| Depth in Metres | Soil Description | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | | | |
|-----------------|--|-------------------|------------------------------|-----------------------------|-------------------|---------|---------|---------|
| | | | | | 1 10 | 2 10 | 3 10 | 4 10 |
| 0 | CLAY, some silt, trace sand, trace gravel, blue-grey, firm, moist, trace shells. | | | 23-1 | ○ 15 | | | |
| | | | | 23-2 | ○ 10 | | | |
| 1 | | | | 23-3 | ○ 10 | | | |
| 2 | CLAY, some silt, trace gravel trace cobbles, medium brown, firm, moist. | | | 23-4 23-5* | ○ 25 | | | |
| | At 2.4 m - refusal due to bedrock. End of test pit at 2.4 m. | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |



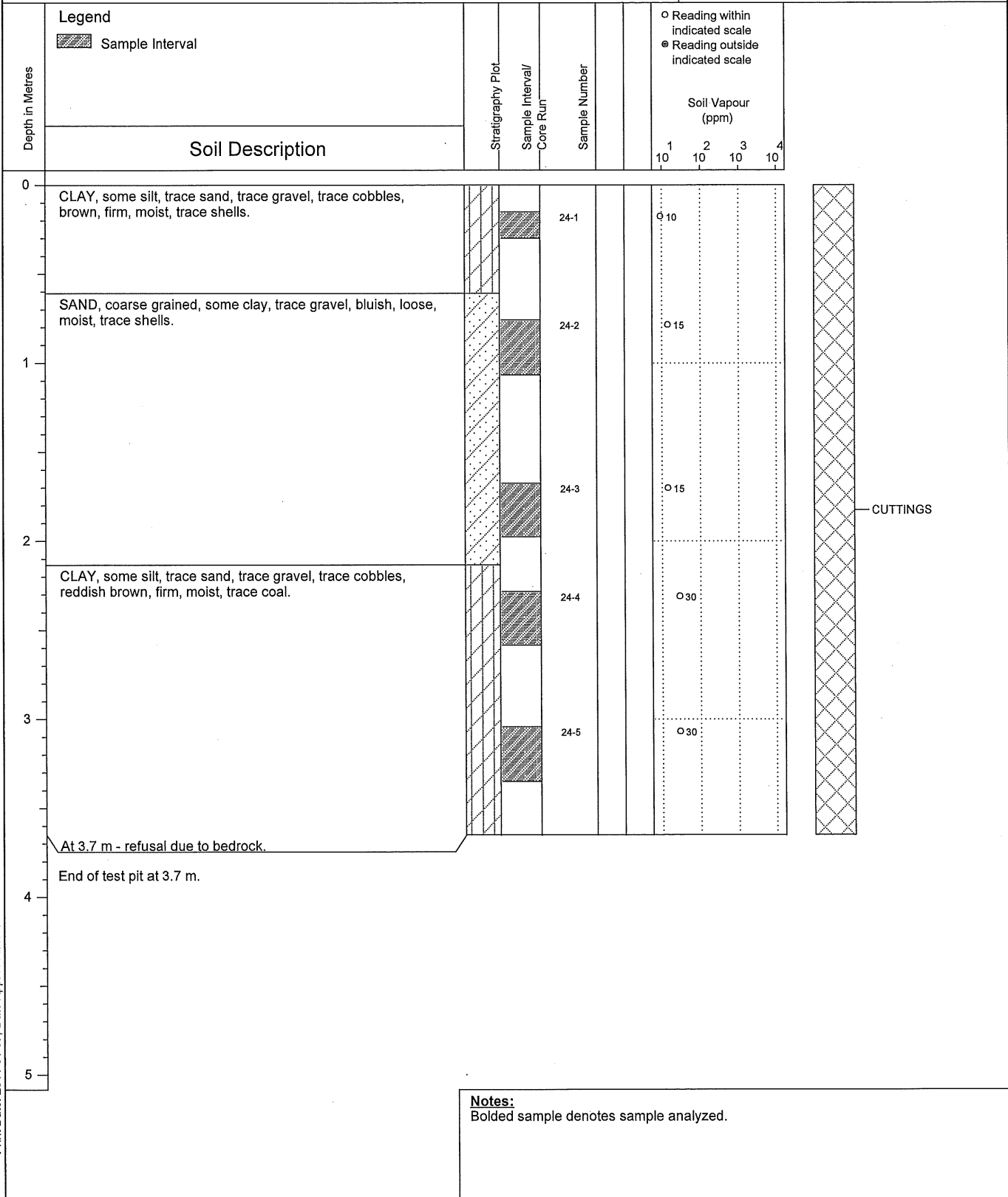
CUTTINGS

Notes:
Bolted sample denotes sample analyzed.
*Sample 23-5 is a blind field duplicate of 23-4.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR





**SNC-LAVALIN
Environment**

Client :
Defence Construction Canada

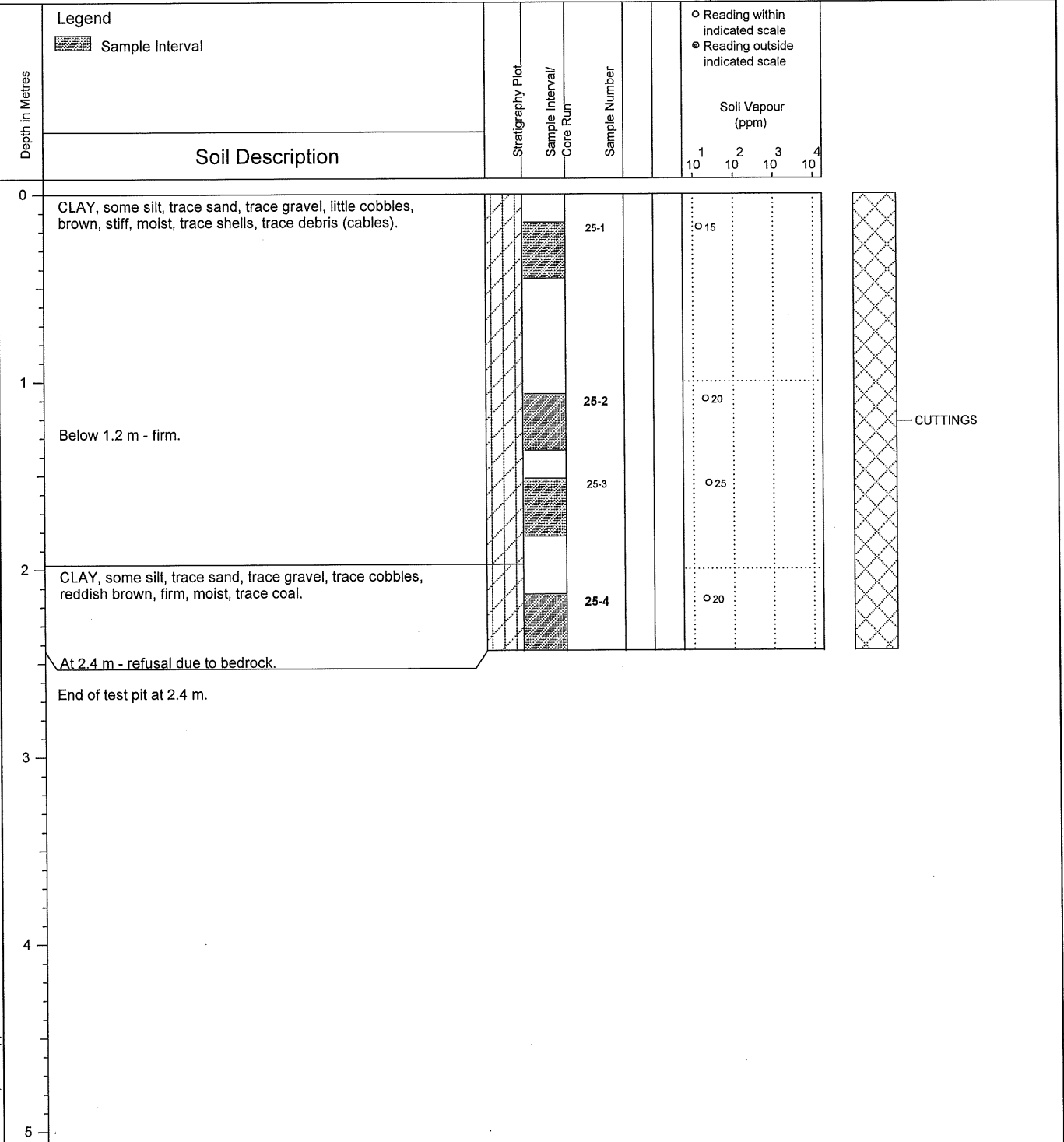
Test Pit No. : 10-25

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR



Notes:
Bolded sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

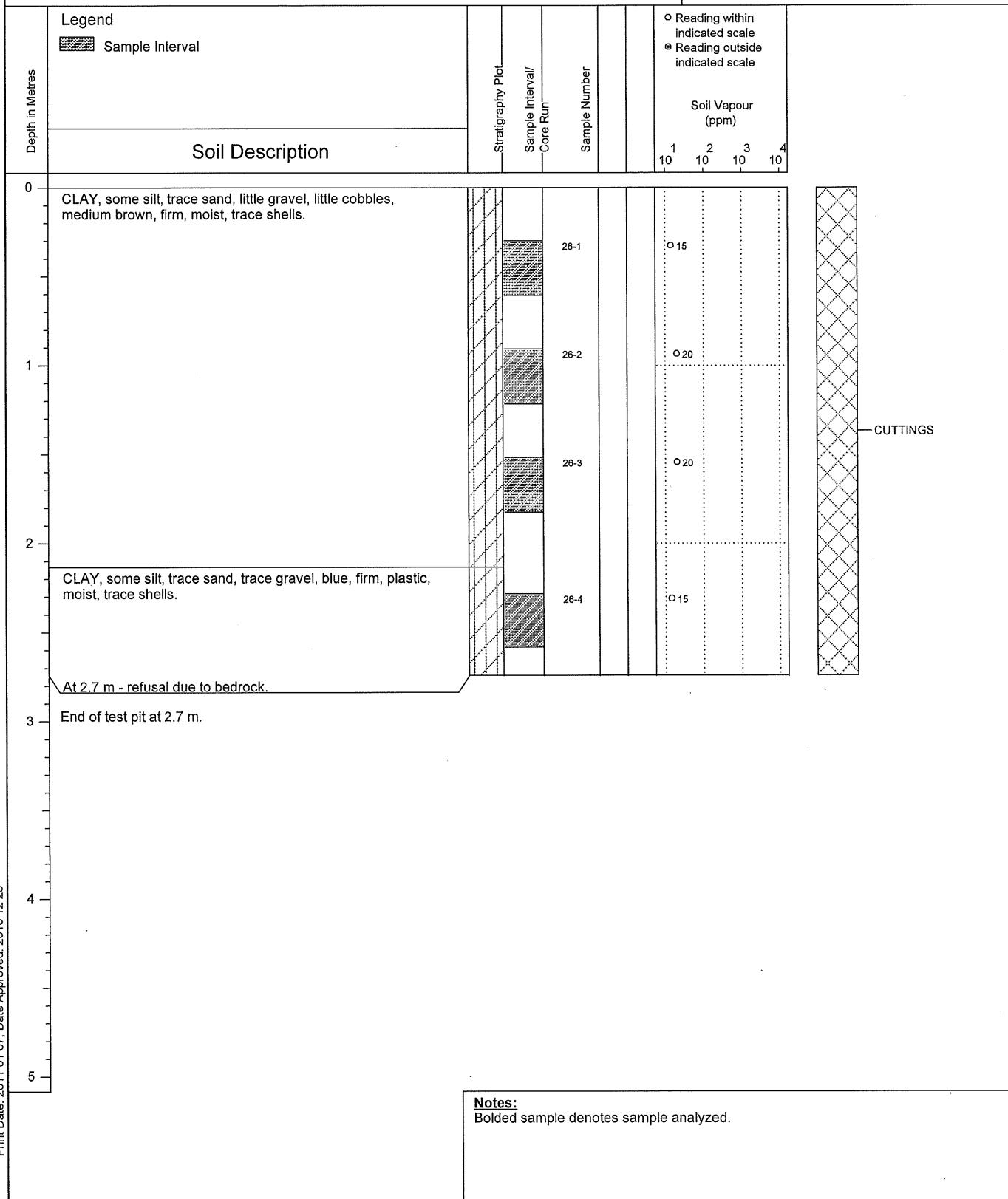
Test Pit No. : 10-26

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

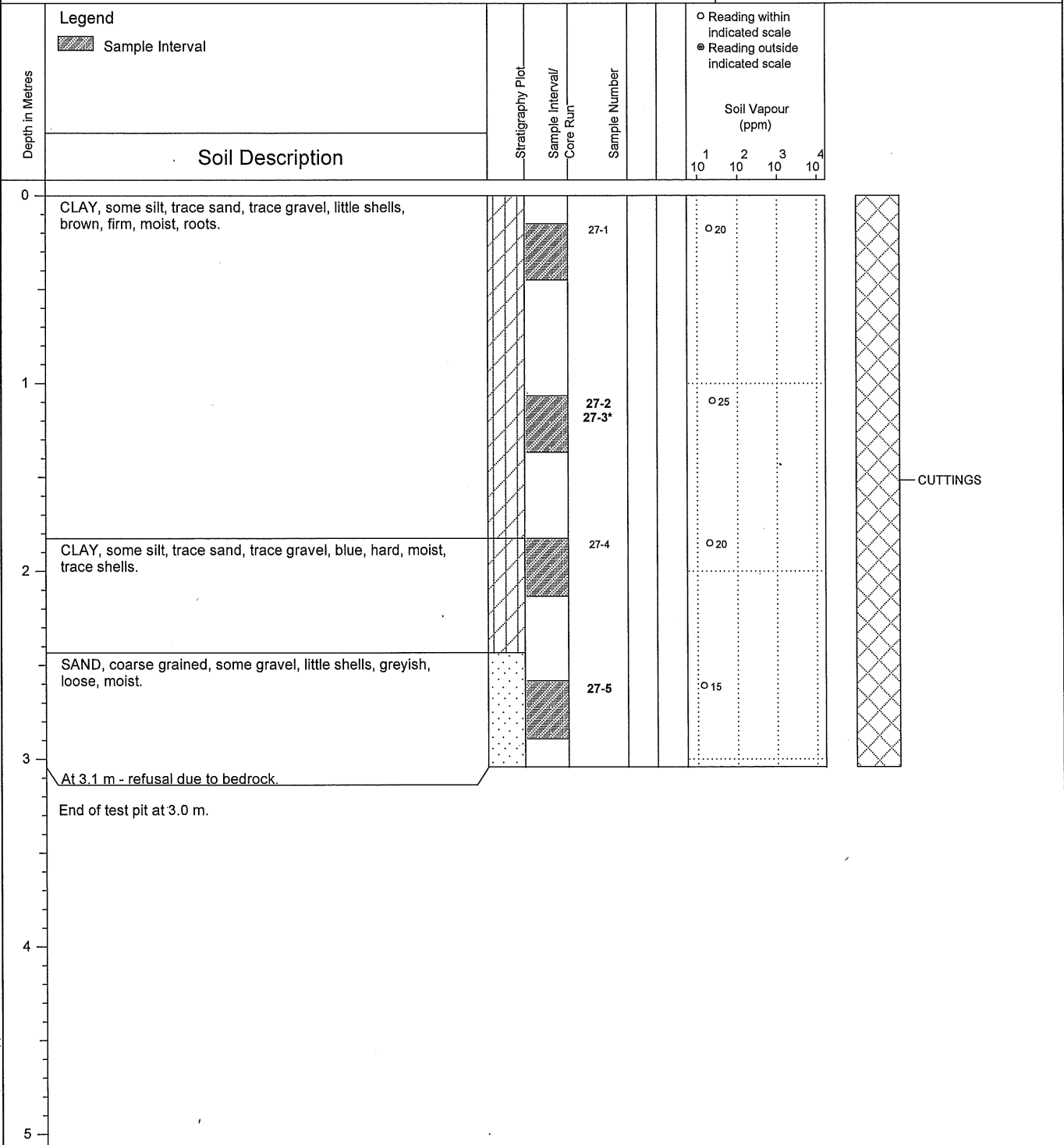
Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR





Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR

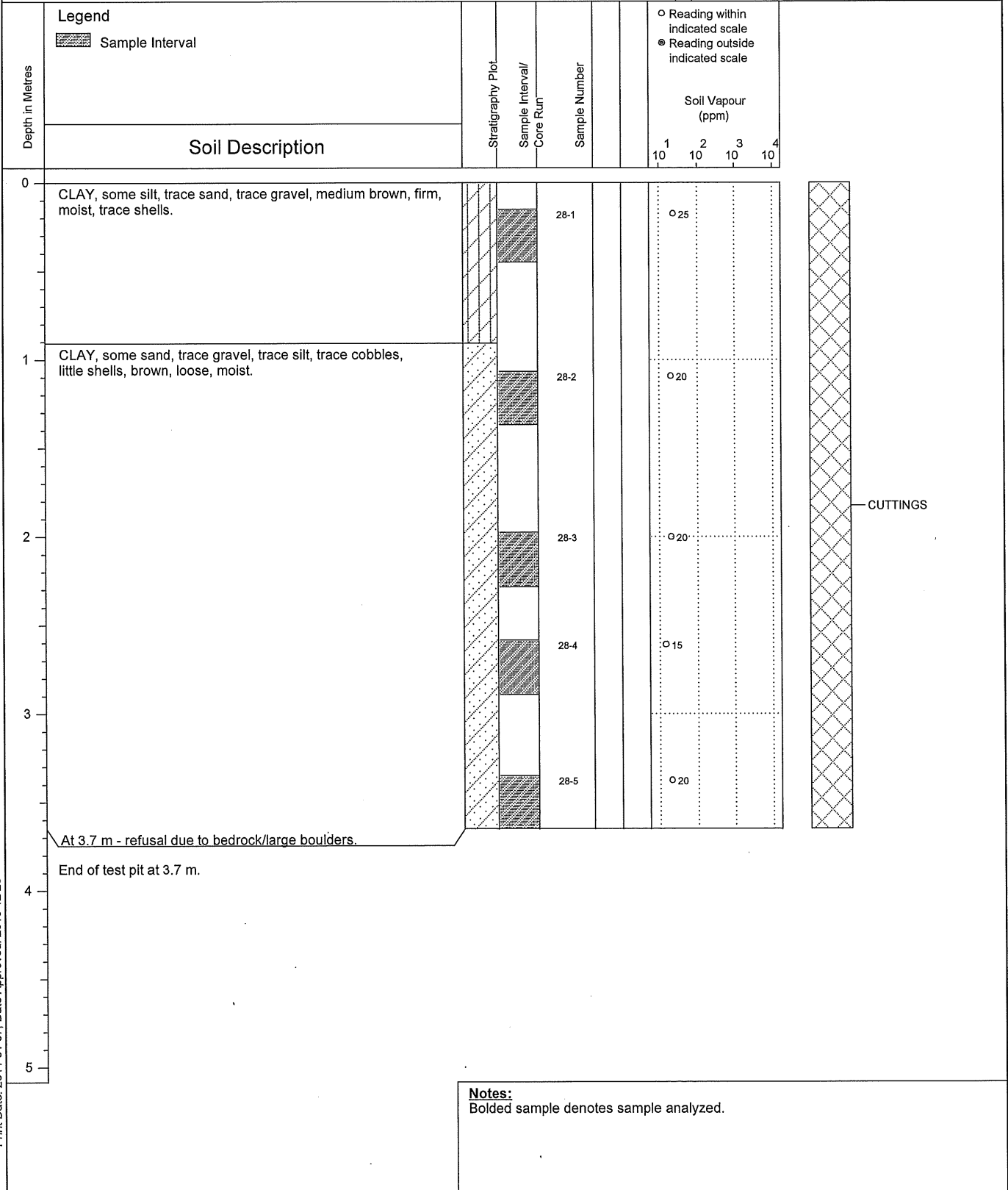


Notes:
Bolted sample denotes sample analyzed.
*Sample 27-3 is a blind field duplicate of 27-2.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR

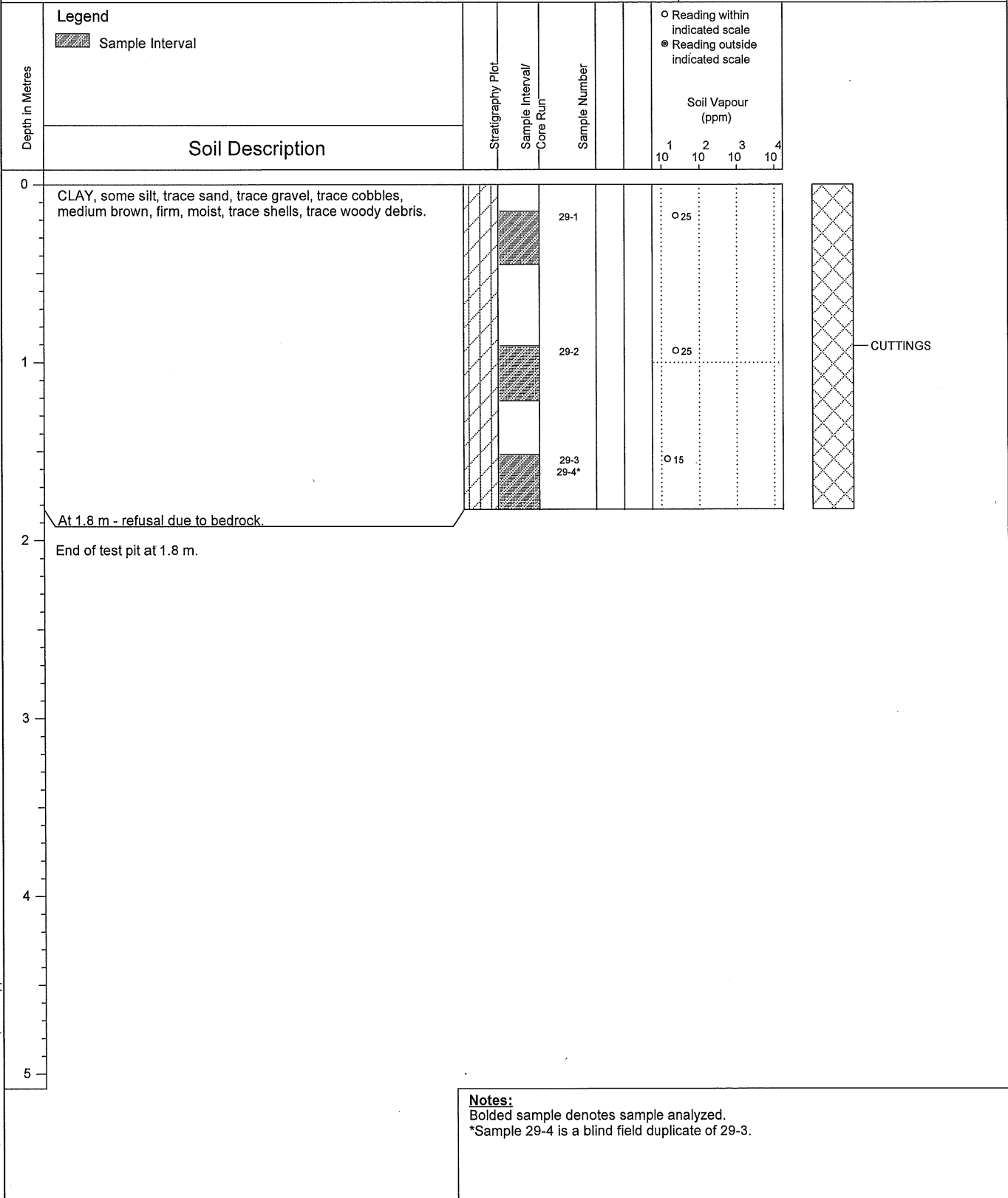


Notes:
Bolded sample denotes sample analyzed.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR



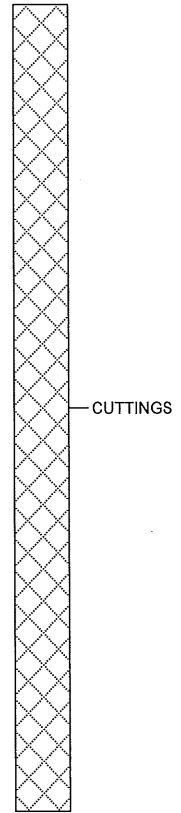
Notes:
 Bolded sample denotes sample analyzed.
 *Sample 29-4 is a blind field duplicate of 29-3.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR

| Depth in Metres | Soil Description | Stratigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | | | |
|---------------------------|---|-------------------|------------------------------|---------------|-------------------|---------|---------|---------|
| | | | | | 1 10 | 2 10 | 3 10 | 4 10 |
| 0 | CLAY, some silt, trace sand, trace gravel, trace cobbles, blue/grey, firm, moist, trace shells, trace debris. | | | 30-1 | ○ 25 | | | |
| 1 | CLAY, some silt, little sand, trace gravel, trace cobbles, brown, firm, moist. | | | 30-2 | ○ 15 | | | |
| 2 | CLAY, some silt, trace sand, trace gravel, reddish brown, firm, moist, trace woody debris. | | | 30-3 | ○ 20 | | | |
| 3 | | | | 30-4 | ○ 25 | | | |
| End of test pit at 3.4 m. | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |



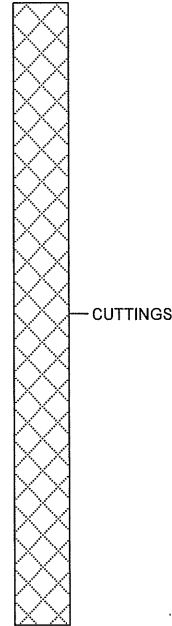
Notes:
Bolded sample denotes sample analyzed.



Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR

| Depth in Metres | Legend | Soil Description | Straigraphy Plot | Sample Interval/ Core Run | Sample Number | Soil Vapour (ppm) | | | |
|-----------------|-----------------|---|------------------|------------------------------|---------------|-------------------|---|---|---|
| | Sample Interval | | | | | 1 | 2 | 3 | 4 |
| 0 | | CLAY, some silt, trace sand, trace gravel, trace cobbles, trace boulders, blue/grey, firm, moist, trace shells. | | | 31-1 | ○ 20 | | | |
| 1 | | CLAY, some silt, little sand, trace gravel, trace cobbles, trace boulders, brown, firm, moist to dry. | | | 31-2 | ○ 20 | | | |
| 2 | | CLAY, some silt, trace sand, trace gravel, reddish brown, firm, moist, trace coal, trace woody debris. | | | 31-3 | ○ 15 | | | |
| | | | | | 31-4 | ○ 15 | | | |
| 3 | | At 2.6 m - refusal due to large boulders. | | | | | | | |
| 4 | | End of test pit at 2.6 m. | | | | | | | |
| 5 | | | | | | | | | |



Notes:
Bolded sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

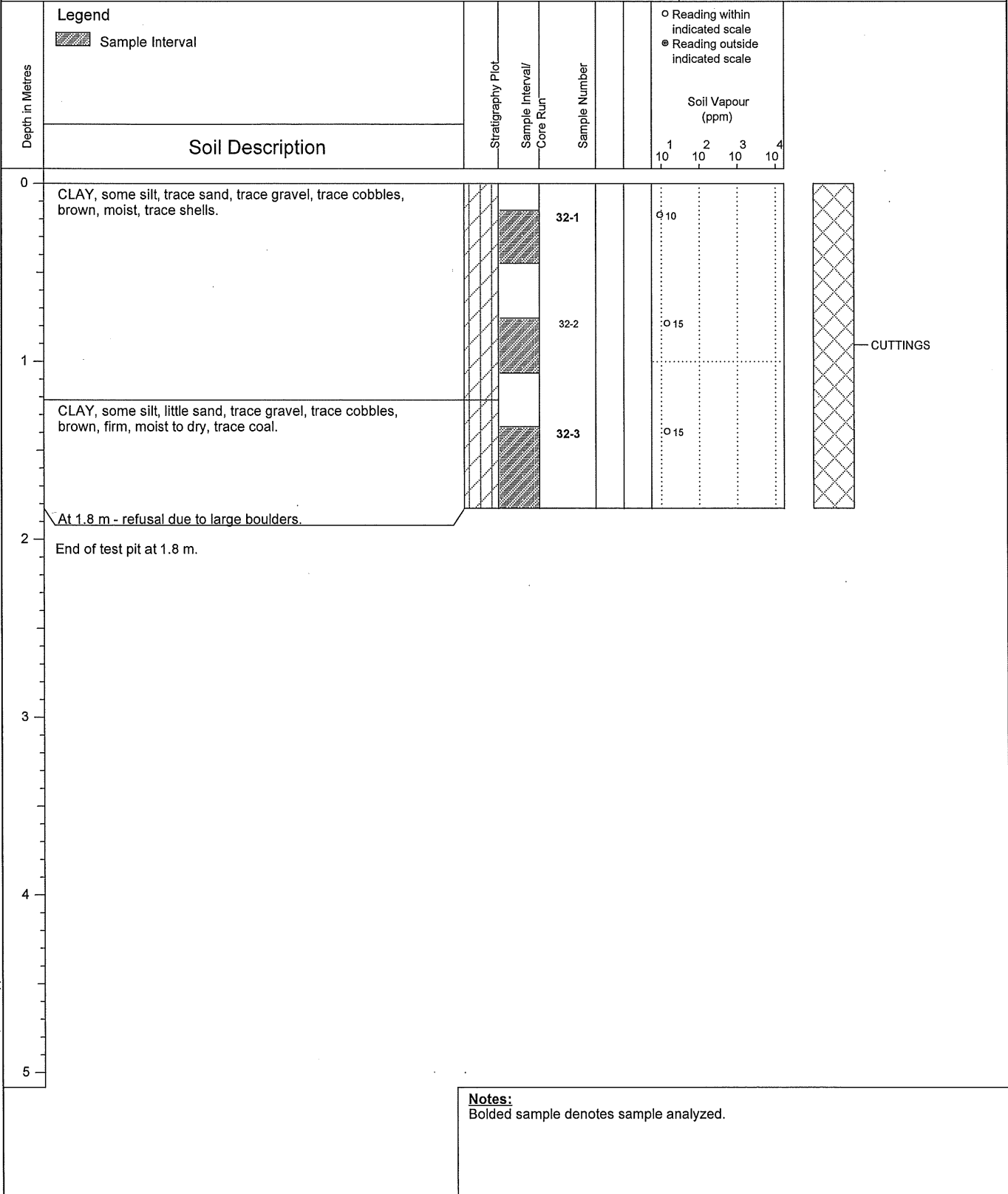
Test Pit No. : 10-32

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR



Notes:
Bolded sample denotes sample analyzed.



SNC-LAVALIN
Environment

Client :
Defence Construction Canada

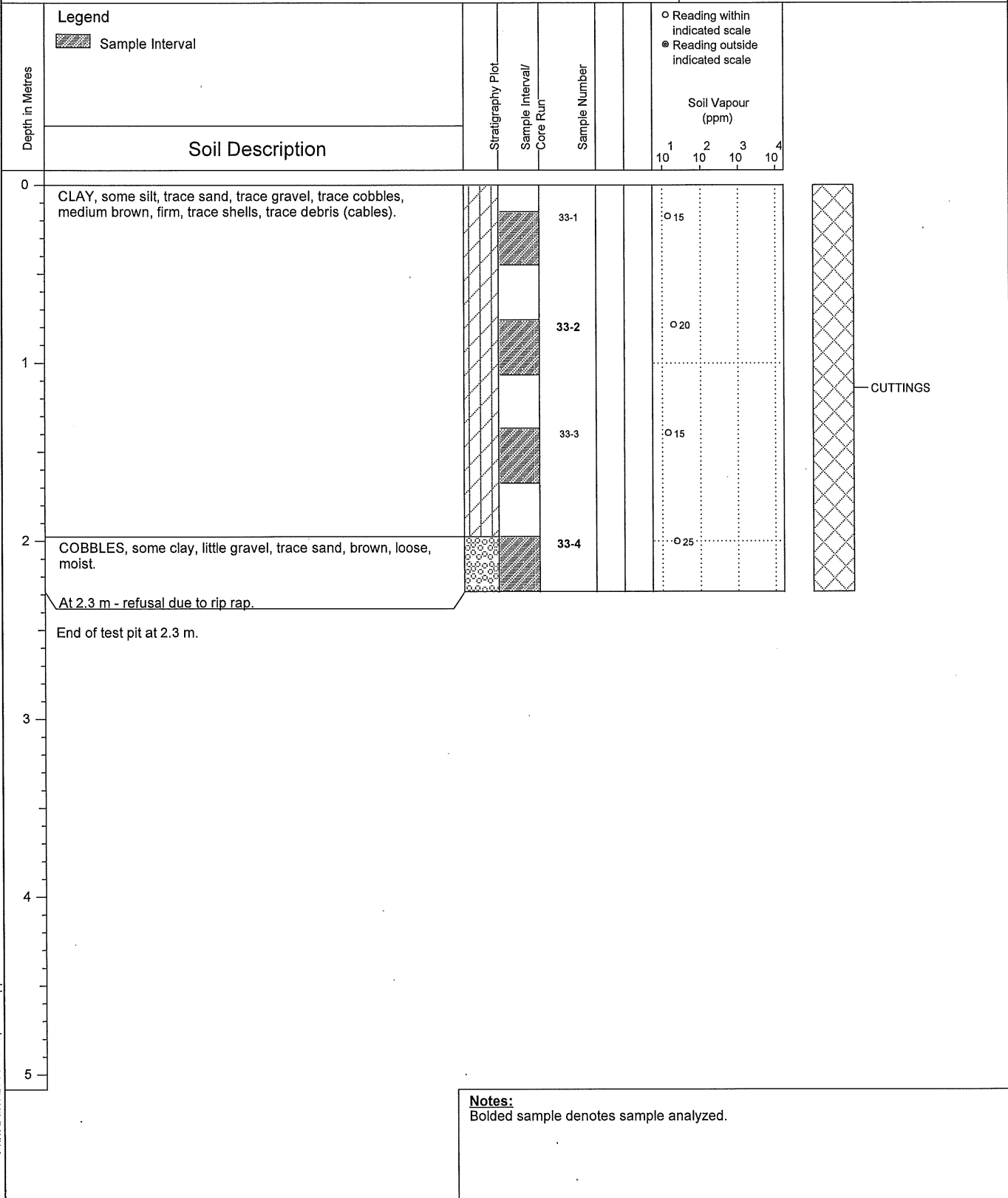
Test Pit No. : 10-33

Location :
Col. 15, Esquimalt, BC

(Page 1 of 1)

Contractor : Hazco Environmental Services
Method : Excavator

Project Number : 504542
Test Pit Logged By : SEI
Date Excavated : 2010 12 15
Log Typed By : MAL/AR



Notes:
Bolted sample denotes sample analyzed.

Your Project #: 630547

Attention: Doug McMillan

SNC-LAVALIN INC.
VICTORIA, ENVIRONMENT DIVISION
202 - 3440 Douglas St
Victoria, BC
Canada V8Z 3L5

Your C.O.C. #: 08412240, 08412241, 08412242, 08412243

Report Date: 2015/12/08
Report #: R2091599
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B563309

Received: 2015/07/24, 08:10

Sample Matrix: Soil
Samples Received: 26

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---------------------------------------|-----------------|---------------------------|--------------------------|--------------------------|--------------------------|
| Chloride (soluble) | 1 | 2015/11/04 | 2015/11/04 | BBY6SOP-00011 | SM 22 4500-Cl- G m |
| Soluble Chloride Ion Calc. (mg/kg) | 1 | N/A | 2015/11/04 | BBY WI-00033 | Auto Calc |
| CCME Hydrocarbons (F2-F4 in soil) (1) | 1 | 2015/07/25 | 2015/07/30 | BBY8SOP-00030 | CCME PHC-CWS |
| CCME Hydrocarbons (F2-F4 in soil) (1) | 4 | 2015/07/26 | 2015/07/30 | BBY8SOP-00030 | CCME PHC-CWS |
| Elements by ICPMS (total) | 11 | 2015/07/30 | 2015/07/30 | BBY7SOP-00001 | EPA 6020a R1 m |
| Elements by ICPMS (total) | 4 | 2015/07/31 | 2015/07/31 | BBY7SOP-00001 | EPA 6020a R1 m |
| Elements by ICPMS (total) | 9 | 2015/12/05 | 2015/12/07 | BBY7SOP-00001 | EPA 6020a R1 m |
| Metals - TCLP | 1 | 2015/11/04 | 2015/11/05 | BBY7SOP-00001 | EPA 6020a R1 m |
| Particulate Mesh 200 | 5 | N/A | 2015/08/10 | BBY6SOP-00039 | Carter 2nd ed 55.4 |
| Moisture | 5 | N/A | 2015/07/27 | BBY8SOP-00017 | BC MOE Lab Manual |
| Soluble Sodium Ion Calc. (mg/kg) | 1 | N/A | 2015/11/04 | BBY WI-00033 | Auto Calc |
| PAH in Soil by GC/MS (SIM) - CCME | 1 | 2015/07/25 | 2015/07/30 | BBY8SOP-00022 | EPA 8270d R4 m |
| PAH in Soil by GC/MS (SIM) - CCME | 3 | 2015/07/26 | 2015/07/30 | BBY8SOP-00022 | EPA 8270d R4 m |
| PAH in Soil by GC/MS (SIM) - CCME | 1 | 2015/07/26 | 2015/08/09 | BBY8SOP-00022 | EPA 8270d R4 m |
| Benzo[a]pyrene Equivalency | 3 | N/A | 2015/07/30 | BBY WI-00033 | Auto Calc |
| Benzo[a]pyrene Equivalency | 1 | N/A | 2015/07/31 | BBY WI-00033 | Auto Calc |
| Benzo[a]pyrene Equivalency | 1 | N/A | 2015/08/10 | BBY WI-00033 | Auto Calc |
| Total LMW, HMW, Total PAH Calc | 3 | N/A | 2015/07/30 | BBY WI-00033 | Auto Calc |
| Total LMW, HMW, Total PAH Calc | 1 | N/A | 2015/07/31 | BBY WI-00033 | Auto Calc |
| Total LMW, HMW, Total PAH Calc | 1 | N/A | 2015/08/10 | BBY WI-00033 | Auto Calc |
| pH (2:1 DI Water Extract) | 11 | 2015/07/30 | 2015/07/30 | BBY6SOP-00028 | BCMOE BCLM Mar2005 m |
| pH (2:1 DI Water Extract) | 4 | 2015/07/31 | 2015/07/31 | BBY6SOP-00028 | BCMOE BCLM Mar2005 m |
| pH (2:1 DI Water Extract) | 9 | 2015/12/05 | 2015/12/07 | BBY6SOP-00028 | BCMOE BCLM Mar2005 m |
| TCLP pH Measurements | 1 | N/A | 2015/11/05 | BBY7SOP-00005 | EPA 1311 R1992 |
| Saturated Paste | 1 | 2015/11/04 | 2015/11/04 | BBY6SOP-00030 | Carter 2nd 15.2.1 m |
| Soluble Cations (Ca,K,Mg,Na,S) | 1 | N/A | 2015/11/04 | BBY7SOP-00001/18 | EPA 6010c/6020A m |

Your Project #: 630547

Attention: Doug McMillan

SNC-LAVALIN INC.
VICTORIA, ENVIRONMENT DIVISION
202 - 3440 Douglas St
Victoria, BC
Canada V8Z 3L5

Your C.O.C. #: 08412240, 08412241, 08412242, 08412243

Report Date: 2015/12/08
Report #: R2091599
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B563309

Received: 2015/07/24, 08:10

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Graham Rudkin, Project Manager, Environmental

Email: GRudkin@maxxam.ca

Phone# (604)638-5926 Ext:5926

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

PETROLEUM HYDROCARBONS (CCME)

| Maxxam ID | | MS8754 | MS8755 | MS8756 | MS8757 | MS8758 | | |
|--|--------------|----------------|----------------|----------------|----------------|----------------|------------|-----------------|
| Sampling Date | | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | | |
| COC Number | | 08412243 | 08412243 | 08412243 | 08412243 | 08412243 | | |
| | UNITS | SS15-01 | SS15-02 | SS15-03 | SS15-04 | SS15-05 | RDL | QC Batch |
| Ext. Pet. Hydrocarbon | | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | mg/kg | <10 | <10 | <10 | <10 | <10 | 10 | 7986758 |
| F3 (C16-C34 Hydrocarbons) | mg/kg | 68 | 41 | 87 | 440 | 92 | 10 | 7986758 |
| F4 (C34-C50 Hydrocarbons) | mg/kg | 17 | 29 | 35 | 100 | 120 | 10 | 7986758 |
| Reached Baseline at C50 | mg/kg | Yes | Yes | Yes | Yes | Yes | N/A | 7986758 |
| Surrogate Recovery (%) | | | | | | | | |
| O-TERPHENYL (sur.) | % | 104 | 103 | 104 | 106 | 105 | | 7986758 |
| RDL = Reportable Detection Limit N/A = Not Applicable | | | | | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

PARTICLE SIZE DISTRIBUTION ANALYSIS (SOIL)

| | | | | | | | | |
|----------------------------------|--------------|----------------|----------------|----------------|----------------|----------------|------------|-----------------|
| Maxxam ID | | MS8754 | MS8755 | MS8756 | MS8757 | MS8758 | | |
| Sampling Date | | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | | |
| COC Number | | 08412243 | 08412243 | 08412243 | 08412243 | 08412243 | | |
| | UNITS | SS15-01 | SS15-02 | SS15-03 | SS15-04 | SS15-05 | RDL | QC Batch |
| Physical Properties | | | | | | | | |
| 200 mesh (>.075 mm) | % | 73.3 | 47.9 | 43.6 | 64.8 | 57.7 | 0.10 | 7996410 |
| 200 mesh (<.075 mm) | % | 26.7 | 52.1 | 56.4 | 35.2 | 42.3 | 0.10 | 7996410 |
| RDL = Reportable Detection Limit | | | | | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

PHYSICAL TESTING (SOIL)

| | | | | | | | | | | |
|----------------------------------|--------------|----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|------------|-----------------|
| Maxxam ID | | MS8754 | | MS8755 | | MS8756 | MS8757 | MS8758 | | |
| Sampling Date | | 2015/07/22 | | 2015/07/22 | | 2015/07/22 | 2015/07/22 | 2015/07/22 | | |
| COC Number | | 08412243 | | 08412243 | | 08412243 | 08412243 | 08412243 | | |
| | UNITS | SS15-01 | QC Batch | SS15-02 | QC Batch | SS15-03 | SS15-04 | SS15-05 | RDL | QC Batch |
| Physical Properties | | | | | | | | | | |
| Moisture | % | 1.6 | 7980608 | 3.6 | 7980071 | 16 | 3.4 | 2.4 | 0.30 | 7980608 |
| RDL = Reportable Detection Limit | | | | | | | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| | | | |
|----------------------------------|--------------|-------------------|-----------------|
| Maxxam ID | | NO2475 | |
| Sampling Date | | 2015/07/22 | |
| COC Number | | 08412241 | |
| | UNITS | TP15-05-02 | QC Batch |
| TCLP Extraction Procedure | | | |
| Initial pH of Sample | pH | 9.27 | 8101214 |
| pH after HCl | pH | 1.52 | 8101214 |
| Final pH of Leachate | pH | 6.38 | 8101214 |
| pH of Leaching Fluid | pH | 4.94 | 8101214 |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | | | | | |
|---------------|--------------|-------------------|-----------------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|------------|-----------------|
| Maxxam ID | | MS8631 | | MS8634 | | MS8636 | MS8688 | | MS8690 | | |
| Sampling Date | | 2015/07/22 | | 2015/07/22 | | 2015/07/22 | 2015/07/22 | | 2015/07/22 | | |
| COC Number | | 08412240 | | 08412240 | | 08412240 | 08412241 | | 08412241 | | |
| | UNITS | TP15-01-01 | QC Batch | TP15-02-02 | QC Batch | TP15-03-01 | TP15-04-04 | QC Batch | TP15-05-02 | RDL | QC Batch |

Physical Properties

| | | | | | | | | | | | |
|------------------|----|------|---------|------|---------|------|------|---------|------|-----|---------|
| Soluble (2:1) pH | pH | 8.49 | 7985375 | 8.24 | 7987108 | 8.39 | 8.29 | 7985375 | 8.33 | N/A | 7987108 |
|------------------|----|------|---------|------|---------|------|------|---------|------|-----|---------|

Total Metals by ICPMS

| | | | | | | | | | | | |
|-----------------------|-------|-------|---------|-------|---------|-------|-------|---------|-------|-------|---------|
| Total Aluminum (Al) | mg/kg | 15500 | 7985310 | 18400 | 7986960 | 18700 | 17800 | 7985310 | 12100 | 100 | 7986960 |
| Total Antimony (Sb) | mg/kg | 0.94 | 7985310 | 3.64 | 7986960 | 2.92 | 4.45 | 7985310 | 11.0 | 0.10 | 7986960 |
| Total Arsenic (As) | mg/kg | 7.11 | 7985310 | 15.7 | 7986960 | 13.5 | 14.6 | 7985310 | 19.9 | 0.50 | 7986960 |
| Total Barium (Ba) | mg/kg | 39.5 | 7985310 | 56.6 | 7986960 | 94.8 | 61.7 | 7985310 | 181 | 0.10 | 7986960 |
| Total Beryllium (Be) | mg/kg | <0.40 | 7985310 | <0.40 | 7986960 | <0.40 | <0.40 | 7985310 | <0.40 | 0.40 | 7986960 |
| Total Bismuth (Bi) | mg/kg | <0.10 | 7985310 | <0.10 | 7986960 | <0.10 | <0.10 | 7985310 | 0.22 | 0.10 | 7986960 |
| Total Cadmium (Cd) | mg/kg | 0.728 | 7985310 | 0.464 | 7986960 | 0.700 | 0.678 | 7985310 | 1.38 | 0.050 | 7986960 |
| Total Calcium (Ca) | mg/kg | 15200 | 7985310 | 8440 | 7986960 | 31100 | 13300 | 7985310 | 63500 | 100 | 7986960 |
| Total Chromium (Cr) | mg/kg | 26.1 | 7985310 | 28.4 | 7986960 | 31.5 | 28.9 | 7985310 | 42.8 | 1.0 | 7986960 |
| Total Cobalt (Co) | mg/kg | 8.64 | 7985310 | 10.8 | 7986960 | 12.2 | 10.9 | 7985310 | 7.08 | 0.30 | 7986960 |
| Total Copper (Cu) | mg/kg | 36.6 | 7985310 | 60.2 | 7986960 | 78.0 | 69.5 | 7985310 | 203 | 0.50 | 7986960 |
| Total Iron (Fe) | mg/kg | 22300 | 7985310 | 24800 | 7986960 | 27500 | 26800 | 7985310 | 32000 | 100 | 7986960 |
| Total Lead (Pb) | mg/kg | 14.0 | 7985310 | 25.7 | 7986960 | 76.5 | 28.5 | 7985310 | 424 | 0.10 | 7986960 |
| Total Lithium (Li) | mg/kg | 15.0 | 7985310 | 13.3 | 7986960 | 14.8 | 13.9 | 7985310 | 11.2 | 5.0 | 7986960 |
| Total Magnesium (Mg) | mg/kg | 7560 | 7985310 | 7420 | 7986960 | 10200 | 9020 | 7985310 | 5250 | 100 | 7986960 |
| Total Manganese (Mn) | mg/kg | 328 | 7985310 | 433 | 7986960 | 438 | 399 | 7985310 | 265 | 0.20 | 7986960 |
| Total Mercury (Hg) | mg/kg | 0.164 | 7985310 | 0.161 | 7986960 | 0.537 | 0.221 | 7985310 | 4.38 | 0.050 | 7986960 |
| Total Molybdenum (Mo) | mg/kg | 1.63 | 7985310 | 1.73 | 7986960 | 2.09 | 1.95 | 7985310 | 3.97 | 0.10 | 7986960 |
| Total Nickel (Ni) | mg/kg | 22.8 | 7985310 | 23.1 | 7986960 | 25.3 | 23.3 | 7985310 | 20.4 | 0.80 | 7986960 |
| Total Phosphorus (P) | mg/kg | 640 | 7985310 | 529 | 7986960 | 643 | 678 | 7985310 | 610 | 10 | 7986960 |
| Total Potassium (K) | mg/kg | 1440 | 7985310 | 859 | 7986960 | 940 | 1020 | 7985310 | 1040 | 100 | 7986960 |
| Total Selenium (Se) | mg/kg | <0.50 | 7985310 | <0.50 | 7986960 | <0.50 | <0.50 | 7985310 | 0.60 | 0.50 | 7986960 |
| Total Silver (Ag) | mg/kg | 0.086 | 7985310 | 0.091 | 7986960 | 0.114 | 0.095 | 7985310 | 0.394 | 0.050 | 7986960 |
| Total Sodium (Na) | mg/kg | 524 | 7985310 | 351 | 7986960 | 546 | 413 | 7985310 | 976 | 100 | 7986960 |
| Total Strontium (Sr) | mg/kg | 81.3 | 7985310 | 43.8 | 7986960 | 195 | 78.9 | 7985310 | 426 | 0.10 | 7986960 |
| Total Thallium (Tl) | mg/kg | 0.222 | 7985310 | 0.097 | 7986960 | 0.126 | 0.121 | 7985310 | 0.311 | 0.050 | 7986960 |
| Total Tin (Sn) | mg/kg | 1.18 | 7985310 | 1.63 | 7986960 | 3.78 | 2.46 | 7985310 | 20.1 | 0.10 | 7986960 |
| Total Titanium (Ti) | mg/kg | 977 | 7985310 | 1010 | 7986960 | 1250 | 998 | 7985310 | 635 | 1.0 | 7986960 |
| Total Uranium (U) | mg/kg | 0.682 | 7985310 | 0.665 | 7986960 | 0.715 | 0.899 | 7985310 | 1.24 | 0.050 | 7986960 |
| Total Vanadium (V) | mg/kg | 53.8 | 7985310 | 60.2 | 7986960 | 58.4 | 59.6 | 7985310 | 38.9 | 2.0 | 7986960 |
| Total Zinc (Zn) | mg/kg | 68.3 | 7985310 | 126 | 7986960 | 189 | 178 | 7985310 | 493 | 1.0 | 7986960 |
| Total Zirconium (Zr) | mg/kg | 5.28 | 7985310 | 4.13 | 7986960 | 4.01 | 3.45 | 7985310 | 4.03 | 0.50 | 7986960 |

RDL = Reportable Detection Limit

N/A = Not Applicable

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | | | | |
|---------------|--------------|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|----------------|------------|-----------------|
| Maxxam ID | | MS8695 | | MS8696 | MS8737 | MS8739 | MS8753 | MS8754 | | |
| Sampling Date | | 2015/07/22 | | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | | |
| COC Number | | 08412241 | | 08412241 | 08412242 | 08412242 | 08412243 | 08412243 | | |
| | UNITS | TP15-06-04 | QC Batch | TP15-07-01 | TP15-08-03 | TP15-09-02 | TP15-10-03 | SS15-01 | RDL | QC Batch |

| Physical Properties | | | | | | | | | | |
|------------------------------|-------|--------|---------|-------|-------|--------|--------|-------|-------|---------|
| Soluble (2:1) pH | pH | 8.34 | 7987108 | 8.28 | 8.33 | 8.28 | 8.53 | 7.87 | N/A | 7985375 |
| Total Metals by ICPMS | | | | | | | | | | |
| Total Aluminum (Al) | mg/kg | 7350 | 7986960 | 15000 | 16000 | 14400 | 14200 | 21600 | 100 | 7985310 |
| Total Antimony (Sb) | mg/kg | 9.05 | 7986960 | 22.2 | 17.1 | 10.0 | 4.58 | 2.14 | 0.10 | 7985310 |
| Total Arsenic (As) | mg/kg | 17.0 | 7986960 | 37.9 | 46.5 | 4.93 | 9.87 | 5.98 | 0.50 | 7985310 |
| Total Barium (Ba) | mg/kg | 119 | 7986960 | 60.1 | 67.5 | 28.1 | 17.0 | 197 | 0.10 | 7985310 |
| Total Beryllium (Be) | mg/kg | <0.40 | 7986960 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.40 | 7985310 |
| Total Bismuth (Bi) | mg/kg | 0.13 | 7986960 | 0.12 | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 7985310 |
| Total Cadmium (Cd) | mg/kg | 1.03 | 7986960 | 0.799 | 0.504 | 0.298 | 0.373 | 0.538 | 0.050 | 7985310 |
| Total Calcium (Ca) | mg/kg | 102000 | 7986960 | 16200 | 12400 | 10500 | 13000 | 9280 | 100 | 7985310 |
| Total Chromium (Cr) | mg/kg | 24.0 | 7986960 | 27.0 | 29.9 | 21.3 | 18.4 | 32.7 | 1.0 | 7985310 |
| Total Cobalt (Co) | mg/kg | 4.58 | 7986960 | 9.19 | 10.9 | 7.91 | 7.70 | 13.7 | 0.30 | 7985310 |
| Total Copper (Cu) | mg/kg | 193 | 7986960 | 66.7 | 76.5 | 37.6 | 30.3 | 60.2 | 0.50 | 7985310 |
| Total Iron (Fe) | mg/kg | 15100 | 7986960 | 23300 | 24400 | 20500 | 19800 | 32100 | 100 | 7985310 |
| Total Lead (Pb) | mg/kg | 300 | 7986960 | 81.6 | 66.5 | 15.1 | 8.90 | 50.4 | 0.10 | 7985310 |
| Total Lithium (Li) | mg/kg | 8.9 | 7986960 | 14.6 | 13.2 | 10.1 | 10.4 | 14.7 | 5.0 | 7985310 |
| Total Magnesium (Mg) | mg/kg | 3230 | 7986960 | 6420 | 7390 | 7520 | 7060 | 11100 | 100 | 7985310 |
| Total Manganese (Mn) | mg/kg | 124 | 7986960 | 303 | 354 | 317 | 287 | 700 | 0.20 | 7985310 |
| Total Mercury (Hg) | mg/kg | 5.62 | 7986960 | 0.702 | 0.257 | 0.067 | <0.050 | 0.190 | 0.050 | 7985310 |
| Total Molybdenum (Mo) | mg/kg | 3.41 | 7986960 | 2.20 | 1.54 | 0.63 | 0.99 | 0.83 | 0.10 | 7985310 |
| Total Nickel (Ni) | mg/kg | 13.7 | 7986960 | 21.7 | 22.1 | 16.8 | 17.2 | 23.7 | 0.80 | 7985310 |
| Total Phosphorus (P) | mg/kg | 501 | 7986960 | 645 | 615 | 684 | 560 | 595 | 10 | 7985310 |
| Total Potassium (K) | mg/kg | 717 | 7986960 | 1050 | 1030 | 581 | 548 | 963 | 100 | 7985310 |
| Total Selenium (Se) | mg/kg | <0.50 | 7986960 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 7985310 |
| Total Silver (Ag) | mg/kg | 0.221 | 7986960 | 0.163 | 0.119 | <0.050 | <0.050 | 0.098 | 0.050 | 7985310 |
| Total Sodium (Na) | mg/kg | 1270 | 7986960 | 544 | 464 | 365 | 409 | 292 | 100 | 7985310 |
| Total Strontium (Sr) | mg/kg | 662 | 7986960 | 101 | 88.2 | 52.9 | 60.7 | 53.4 | 0.10 | 7985310 |
| Total Thallium (Tl) | mg/kg | 0.258 | 7986960 | 0.167 | 0.100 | 0.064 | 0.080 | 0.085 | 0.050 | 7985310 |
| Total Tin (Sn) | mg/kg | 12.6 | 7986960 | 5.64 | 4.73 | 0.93 | 0.89 | 1.85 | 0.10 | 7985310 |
| Total Titanium (Ti) | mg/kg | 476 | 7986960 | 886 | 951 | 844 | 1140 | 1250 | 1.0 | 7985310 |
| Total Uranium (U) | mg/kg | 0.761 | 7986960 | 0.861 | 0.619 | 0.320 | 0.588 | 0.472 | 0.050 | 7985310 |
| Total Vanadium (V) | mg/kg | 28.4 | 7986960 | 50.0 | 54.5 | 47.8 | 53.2 | 64.8 | 2.0 | 7985310 |
| Total Zinc (Zn) | mg/kg | 363 | 7986960 | 213 | 190 | 62.3 | 57.7 | 106 | 1.0 | 7985310 |
| Total Zirconium (Zr) | mg/kg | 3.24 | 7986960 | 5.16 | 4.23 | 2.73 | 4.46 | 4.13 | 0.50 | 7985310 |

RDL = Reportable Detection Limit

N/A = Not Applicable

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | | | | |
|---------------|--------------|----------------|-----------------|----------------|----------------|----------------|-----------------|-------------------|------------|-----------------|
| Maxxam ID | | MS8755 | | MS8756 | MS8757 | MS8758 | | NT9891 | | |
| Sampling Date | | 2015/07/22 | | 2015/07/22 | 2015/07/22 | 2015/07/22 | | 2015/07/22 | | |
| COC Number | | 08412243 | | 08412243 | 08412243 | 08412243 | | 08412241 | | |
| | UNITS | SS15-02 | QC Batch | SS15-03 | SS15-04 | SS15-05 | QC Batch | TP15-02-01 | RDL | QC Batch |

| Physical Properties | | | | | | | | | | |
|----------------------------------|-------|-------|---------|-------|-------|-------|---------|-------|-------|---------|
| Soluble (2:1) pH | pH | 8.10 | 7987108 | 8.03 | 7.94 | 8.09 | 7985375 | 8.33 | N/A | 8135550 |
| Total Metals by ICPMS | | | | | | | | | | |
| Total Aluminum (Al) | mg/kg | 21500 | 7986960 | 13600 | 17500 | 17200 | 7985310 | 15700 | 100 | 8135467 |
| Total Antimony (Sb) | mg/kg | 0.47 | 7986960 | 0.60 | 0.75 | 1.54 | 7985310 | 3.55 | 0.10 | 8135467 |
| Total Arsenic (As) | mg/kg | 5.54 | 7986960 | 6.54 | 5.74 | 8.07 | 7985310 | 10.2 | 0.50 | 8135467 |
| Total Barium (Ba) | mg/kg | 64.7 | 7986960 | 44.2 | 58.9 | 51.7 | 7985310 | 55.6 | 0.10 | 8135467 |
| Total Beryllium (Be) | mg/kg | 0.44 | 7986960 | <0.40 | <0.40 | <0.40 | 7985310 | <0.40 | 0.40 | 8135467 |
| Total Bismuth (Bi) | mg/kg | <0.10 | 7986960 | <0.10 | <0.10 | <0.10 | 7985310 | <0.10 | 0.10 | 8135467 |
| Total Cadmium (Cd) | mg/kg | 0.538 | 7986960 | 1.12 | 0.634 | 0.669 | 7985310 | 0.706 | 0.050 | 8135467 |
| Total Calcium (Ca) | mg/kg | 13100 | 7986960 | 13400 | 17200 | 16200 | 7985310 | 14600 | 100 | 8135467 |
| Total Chromium (Cr) | mg/kg | 51.5 | 7986960 | 24.3 | 29.3 | 28.7 | 7985310 | 32.5 | 1.0 | 8135467 |
| Total Cobalt (Co) | mg/kg | 13.3 | 7986960 | 6.69 | 10.1 | 10.8 | 7985310 | 10.4 | 0.30 | 8135467 |
| Total Copper (Cu) | mg/kg | 53.4 | 7986960 | 40.2 | 47.2 | 49.9 | 7985310 | 62.2 | 0.50 | 8135467 |
| Total Iron (Fe) | mg/kg | 30000 | 7986960 | 20000 | 24700 | 27900 | 7985310 | 24200 | 100 | 8135467 |
| Total Lead (Pb) | mg/kg | 14.5 | 7986960 | 24.5 | 33.8 | 23.7 | 7985310 | 29.2 | 0.10 | 8135467 |
| Total Lithium (Li) | mg/kg | 17.1 | 7986960 | 14.4 | 15.2 | 14.3 | 7985310 | 14.2 | 5.0 | 8135467 |
| Total Magnesium (Mg) | mg/kg | 8400 | 7986960 | 5930 | 8510 | 8580 | 7985310 | 8060 | 100 | 8135467 |
| Total Manganese (Mn) | mg/kg | 507 | 7986960 | 235 | 394 | 416 | 7985310 | 394 | 0.20 | 8135467 |
| Total Mercury (Hg) | mg/kg | 0.121 | 7986960 | 0.264 | 0.241 | 0.127 | 7985310 | 3.90 | 0.050 | 8135467 |
| Total Molybdenum (Mo) | mg/kg | 0.75 | 7986960 | 1.91 | 1.05 | 1.28 | 7985310 | 1.42 | 0.10 | 8135467 |
| Total Nickel (Ni) | mg/kg | 29.9 | 7986960 | 19.3 | 23.9 | 24.3 | 7985310 | 25.3 | 0.80 | 8135467 |
| Total Phosphorus (P) | mg/kg | 581 | 7986960 | 698 | 695 | 678 | 7985310 | 648 | 10 | 8135467 |
| Total Potassium (K) | mg/kg | 1010 | 7986960 | 1150 | 1150 | 1080 | 7985310 | 1050 | 100 | 8135467 |
| Total Selenium (Se) | mg/kg | <0.50 | 7986960 | <0.50 | <0.50 | <0.50 | 7985310 | <0.50 | 0.50 | 8135467 |
| Total Silver (Ag) | mg/kg | 0.111 | 7986960 | 0.104 | 0.103 | 0.105 | 7985310 | 0.112 | 0.050 | 8135467 |
| Total Sodium (Na) | mg/kg | 603 | 7986960 | 587 | 470 | 431 | 7985310 | 462 | 100 | 8135467 |
| Total Strontium (Sr) | mg/kg | 88.1 | 7986960 | 88.0 | 124 | 94.2 | 7985310 | 82.4 | 0.10 | 8135467 |
| Total Thallium (Tl) | mg/kg | 0.097 | 7986960 | 0.305 | 0.146 | 0.121 | 7985310 | 0.169 | 0.050 | 8135467 |
| Total Tin (Sn) | mg/kg | 0.99 | 7986960 | 1.84 | 1.81 | 1.44 | 7985310 | 7.68 | 0.10 | 8135467 |
| Total Titanium (Ti) | mg/kg | 1060 | 7986960 | 881 | 1070 | 1020 | 7985310 | 1100 | 1.0 | 8135467 |
| Total Uranium (U) | mg/kg | 0.530 | 7986960 | 0.928 | 0.659 | 0.600 | 7985310 | 0.728 | 0.050 | 8135467 |
| Total Vanadium (V) | mg/kg | 72.8 | 7986960 | 45.8 | 59.0 | 58.2 | 7985310 | 60.1 | 2.0 | 8135467 |
| Total Zinc (Zn) | mg/kg | 66.2 | 7986960 | 67.3 | 81.5 | 96.3 | 7985310 | 108 | 1.0 | 8135467 |
| Total Zirconium (Zr) | mg/kg | 5.24 | 7986960 | 4.86 | 3.40 | 3.88 | 7985310 | 4.23 | 0.50 | 8135467 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| N/A = Not Applicable | | | | | | | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

CSR/CCME METALS IN SOIL (SOIL)

| Maxxam ID | | NT9892 | NT9893 | NT9894 | NT9895 | NT9896 | NT9897 | NT9898 | | |
|---------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|-----------------|
| Sampling Date | | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | 2015/07/22 | | |
| COC Number | | 08412241 | 08412241 | 08412241 | 08412241 | 08412241 | 08412241 | 08412241 | | |
| | UNITS | TP15-02-03 | TP15-03-03 | TP15-04-01 | TP15-05-03 | TP15-06-02 | TP15-07-03 | TP15-08-01 | RDL | QC Batch |

Physical Properties

| | | | | | | | | | | |
|------------------|----|------|------|------|------|------|------|------|-----|---------|
| Soluble (2:1) pH | pH | 8.26 | 8.43 | 8.33 | 7.59 | 8.26 | 8.47 | 8.47 | N/A | 8135550 |
|------------------|----|------|------|------|------|------|------|------|-----|---------|

Total Metals by ICPMS

| | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|---------|
| Total Aluminum (Al) | mg/kg | 17100 | 13400 | 18400 | 24300 | 17400 | 20700 | 17300 | 100 | 8135467 |
| Total Antimony (Sb) | mg/kg | 0.39 | 2.07 | 1.37 | 0.50 | 1.11 | 1.27 | 2.47 | 0.10 | 8135467 |
| Total Arsenic (As) | mg/kg | 4.87 | 9.04 | 7.16 | 4.92 | 5.12 | 7.79 | 8.53 | 0.50 | 8135467 |
| Total Barium (Ba) | mg/kg | 70.9 | 56.3 | 75.2 | 88.0 | 84.2 | 69.2 | 54.7 | 0.10 | 8135467 |
| Total Beryllium (Be) | mg/kg | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.40 | 8135467 |
| Total Bismuth (Bi) | mg/kg | <0.10 | 0.15 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 8135467 |
| Total Cadmium (Cd) | mg/kg | 0.244 | 1.18 | 0.538 | 0.267 | 0.306 | 0.423 | 0.535 | 0.050 | 8135467 |
| Total Calcium (Ca) | mg/kg | 6310 | 23100 | 16700 | 8320 | 12300 | 9650 | 12700 | 100 | 8135467 |
| Total Chromium (Cr) | mg/kg | 25.9 | 26.0 | 30.4 | 37.6 | 33.5 | 37.0 | 27.8 | 1.0 | 8135467 |
| Total Cobalt (Co) | mg/kg | 10.2 | 7.56 | 13.1 | 13.1 | 12.7 | 13.3 | 10.8 | 0.30 | 8135467 |
| Total Copper (Cu) | mg/kg | 36.0 | 57.3 | 69.0 | 77.5 | 92.9 | 59.2 | 80.8 | 0.50 | 8135467 |
| Total Iron (Fe) | mg/kg | 23500 | 20300 | 27600 | 30200 | 27300 | 30300 | 25800 | 100 | 8135467 |
| Total Lead (Pb) | mg/kg | 6.29 | 102 | 24.9 | 15.3 | 38.8 | 24.6 | 29.6 | 0.10 | 8135467 |
| Total Lithium (Li) | mg/kg | 11.4 | 13.5 | 12.7 | 12.7 | 9.7 | 18.6 | 14.6 | 5.0 | 8135467 |
| Total Magnesium (Mg) | mg/kg | 6160 | 6330 | 9840 | 8420 | 9020 | 9060 | 8030 | 100 | 8135467 |
| Total Manganese (Mn) | mg/kg | 406 | 279 | 489 | 443 | 435 | 520 | 417 | 0.20 | 8135467 |
| Total Mercury (Hg) | mg/kg | 0.062 | 0.707 | 0.174 | 0.173 | 0.287 | 0.265 | 0.217 | 0.050 | 8135467 |
| Total Molybdenum (Mo) | mg/kg | 0.63 | 2.34 | 1.36 | 0.55 | 0.66 | 0.79 | 1.11 | 0.10 | 8135467 |
| Total Nickel (Ni) | mg/kg | 22.2 | 19.8 | 23.8 | 26.4 | 25.7 | 32.1 | 22.1 | 0.80 | 8135467 |
| Total Phosphorus (P) | mg/kg | 410 | 684 | 634 | 498 | 615 | 617 | 576 | 10 | 8135467 |
| Total Potassium (K) | mg/kg | 670 | 917 | 763 | 508 | 592 | 1370 | 926 | 100 | 8135467 |
| Total Selenium (Se) | mg/kg | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 8135467 |
| Total Silver (Ag) | mg/kg | 0.074 | 0.121 | 0.105 | 0.107 | 0.111 | 0.107 | 0.118 | 0.050 | 8135467 |
| Total Sodium (Na) | mg/kg | 379 | 533 | 331 | 333 | 260 | 553 | 462 | 100 | 8135467 |
| Total Strontium (Sr) | mg/kg | 33.8 | 131 | 88.8 | 63.2 | 89.3 | 55.5 | 73.8 | 0.10 | 8135467 |
| Total Thallium (Tl) | mg/kg | 0.062 | 0.309 | 0.100 | <0.050 | 0.065 | 0.084 | 0.092 | 0.050 | 8135467 |
| Total Tin (Sn) | mg/kg | 0.37 | 3.10 | 1.23 | 0.92 | 1.52 | 3.50 | 1.79 | 0.10 | 8135467 |
| Total Titanium (Ti) | mg/kg | 1190 | 1020 | 1120 | 1210 | 1130 | 1310 | 1280 | 1.0 | 8135467 |
| Total Uranium (U) | mg/kg | 0.451 | 0.878 | 0.664 | 0.445 | 0.424 | 0.579 | 0.608 | 0.050 | 8135467 |
| Total Vanadium (V) | mg/kg | 64.2 | 50.6 | 67.7 | 81.9 | 71.6 | 78.5 | 68.0 | 2.0 | 8135467 |
| Total Zinc (Zn) | mg/kg | 49.6 | 120 | 109 | 63.4 | 84.8 | 82.9 | 93.9 | 1.0 | 8135467 |
| Total Zirconium (Zr) | mg/kg | 3.72 | 5.08 | 2.74 | 3.76 | 3.33 | 5.13 | 4.50 | 0.50 | 8135467 |

RDL = Reportable Detection Limit

N/A = Not Applicable

Maxxam Job #: B563309
 Report Date: 2015/12/08

SNC-LAVALIN INC.
 Client Project #: 630547
 Sampler Initials: ME

CSR/CCME METALS IN SOIL (SOIL)

| | | | | |
|--|--------------|-------------------|------------|-----------------|
| Maxxam ID | | NT9899 | | |
| Sampling Date | | 2015/07/22 | | |
| COC Number | | 08412241 | | |
| | UNITS | TP15-09-01 | RDL | QC Batch |
| Physical Properties | | | | |
| Soluble (2:1) pH | pH | 8.53 | N/A | 8135550 |
| Total Metals by ICPMS | | | | |
| Total Aluminum (Al) | mg/kg | 13500 | 100 | 8135467 |
| Total Antimony (Sb) | mg/kg | 30.3 | 0.10 | 8135467 |
| Total Arsenic (As) | mg/kg | 5.05 | 0.50 | 8135467 |
| Total Barium (Ba) | mg/kg | 30.4 | 0.10 | 8135467 |
| Total Beryllium (Be) | mg/kg | <0.40 | 0.40 | 8135467 |
| Total Bismuth (Bi) | mg/kg | <0.10 | 0.10 | 8135467 |
| Total Cadmium (Cd) | mg/kg | 0.392 | 0.050 | 8135467 |
| Total Calcium (Ca) | mg/kg | 15600 | 100 | 8135467 |
| Total Chromium (Cr) | mg/kg | 24.8 | 1.0 | 8135467 |
| Total Cobalt (Co) | mg/kg | 9.11 | 0.30 | 8135467 |
| Total Copper (Cu) | mg/kg | 42.4 | 0.50 | 8135467 |
| Total Iron (Fe) | mg/kg | 20900 | 100 | 8135467 |
| Total Lead (Pb) | mg/kg | 11.5 | 0.10 | 8135467 |
| Total Lithium (Li) | mg/kg | 10.8 | 5.0 | 8135467 |
| Total Magnesium (Mg) | mg/kg | 6950 | 100 | 8135467 |
| Total Manganese (Mn) | mg/kg | 343 | 0.20 | 8135467 |
| Total Mercury (Hg) | mg/kg | 0.092 | 0.050 | 8135467 |
| Total Molybdenum (Mo) | mg/kg | 0.72 | 0.10 | 8135467 |
| Total Nickel (Ni) | mg/kg | 18.7 | 0.80 | 8135467 |
| Total Phosphorus (P) | mg/kg | 503 | 10 | 8135467 |
| Total Potassium (K) | mg/kg | 502 | 100 | 8135467 |
| Total Selenium (Se) | mg/kg | <0.50 | 0.50 | 8135467 |
| Total Silver (Ag) | mg/kg | 0.059 | 0.050 | 8135467 |
| Total Sodium (Na) | mg/kg | 349 | 100 | 8135467 |
| Total Strontium (Sr) | mg/kg | 65.2 | 0.10 | 8135467 |
| Total Thallium (Tl) | mg/kg | 0.064 | 0.050 | 8135467 |
| Total Tin (Sn) | mg/kg | 0.83 | 0.10 | 8135467 |
| Total Titanium (Ti) | mg/kg | 1080 | 1.0 | 8135467 |
| Total Uranium (U) | mg/kg | 0.456 | 0.050 | 8135467 |
| Total Vanadium (V) | mg/kg | 55.7 | 2.0 | 8135467 |
| Total Zinc (Zn) | mg/kg | 60.7 | 1.0 | 8135467 |
| Total Zirconium (Zr) | mg/kg | 3.83 | 0.50 | 8135467 |
| RDL = Reportable Detection Limit N/A = Not Applicable | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

TCLP METALS (SOIL)

| | | | | |
|----------------------------------|--------------|-------------------|------------|-----------------|
| Maxxam ID | | NO2475 | | |
| Sampling Date | | 2015/07/22 | | |
| COC Number | | 08412241 | | |
| | UNITS | TP15-05-02 | RDL | QC Batch |
| Metals | | | | |
| LEACHATE Lead (Pb) | mg/L | 0.10 | 0.10 | 8102156 |
| RDL = Reportable Detection Limit | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

SOLUBLE SODIUM AND CHLORIDE IN SOIL (SOIL)

| | | | | |
|----------------------------------|--------------|-------------------|------------|-----------------|
| Maxxam ID | | NO2477 | | |
| Sampling Date | | 2015/07/22 | | |
| COC Number | | 08412241 | | |
| | UNITS | TP15-06-04 | RDL | QC Batch |
| ANIONS | | | | |
| Soluble Chloride (Cl) | mg/L | 8.0 | 5.0 | 8101804 |
| Calculated Parameters | | | | |
| Soluble Chloride (Cl) | mg/kg | 5.7 | 3.6 | 8099763 |
| Soluble Sodium (Na) | mg/kg | 11.3 | 3.6 | 8099765 |
| Soluble Parameters | | | | |
| Saturation % | % | 71.3 | 1.0 | 8100948 |
| Wet Soluble Sodium (Na) | mg/L | 15.9 | 5.0 | 8101387 |
| RDL = Reportable Detection Limit | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

CCME PAH IN SOIL BY GC-MS (SOIL)

| Maxxam ID | | MS8754 | | MS8755 | MS8756 | | MS8757 | | |
|---|-------|-------------|--------|------------|------------|--------|------------|--------|----------|
| Sampling Date | | 2015/07/22 | | 2015/07/22 | 2015/07/22 | | 2015/07/22 | | |
| COC Number | | 08412243 | | 08412243 | 08412243 | | 08412243 | | |
| | UNITS | SS15-01 | RDL | SS15-02 | SS15-03 | RDL | SS15-04 | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | |
| Index of Additive Cancer Risk(IARC) | N/A | 1.5 | 0.10 | 1.2 | 0.87 | 0.10 | 68 | 0.10 | 7979446 |
| Benzo[a]pyrene equivalency | N/A | 0.10 | 0.10 | <0.10 | <0.10 | 0.10 | 4.0 | 0.10 | 7979446 |
| Polycyclic Aromatics | | | | | | | | | |
| Naphthalene | mg/kg | 0.011 | 0.010 | 0.022 | 0.020 | 0.010 | 0.062 | 0.010 | 7985622 |
| 2-Methylnaphthalene | mg/kg | <0.020 | 0.020 | <0.020 | 0.029 | 0.020 | 0.049 | 0.020 | 7985622 |
| Acenaphthylene | mg/kg | <0.0052 (1) | 0.0052 | <0.0050 | <0.0050 | 0.0050 | 0.22 | 0.0050 | 7985622 |
| Acenaphthene | mg/kg | 0.014 | 0.0050 | <0.0050 | 0.0059 | 0.0050 | 0.074 | 0.0050 | 7985622 |
| Fluorene | mg/kg | <0.020 | 0.020 | <0.020 | <0.020 | 0.020 | 0.11 | 0.020 | 7985622 |
| Phenanthrene | mg/kg | 0.49 | 0.020 | 0.046 | 0.054 | 0.020 | 0.99 | 0.020 | 7985622 |
| Anthracene | mg/kg | 0.022 | 0.0040 | 0.013 | 0.016 | 0.0040 | 0.59 | 0.0040 | 7985622 |
| Fluoranthene | mg/kg | 0.53 | 0.020 | 0.073 | 0.054 | 0.020 | 19 (2) | 0.10 | 7985622 |
| Pyrene | mg/kg | 0.33 | 0.020 | 0.073 | 0.069 | 0.020 | 19 (2) | 0.10 | 7985622 |
| Benzo(a)anthracene | mg/kg | 0.090 | 0.020 | 0.045 | 0.033 | 0.020 | 2.4 | 0.020 | 7985622 |
| Chrysene | mg/kg | 0.15 | 0.020 | 0.071 | 0.053 | 0.020 | 8.5 | 0.020 | 7985622 |
| Benzo(b&j)fluoranthene | mg/kg | 0.11 | 0.020 | 0.10 | 0.073 | 0.020 | 6.8 | 0.020 | 7985622 |
| Benzo(b)fluoranthene | mg/kg | 0.076 | 0.020 | 0.069 | 0.052 | 0.020 | 4.6 | 0.020 | 7985622 |
| Benzo(k)fluoranthene | mg/kg | 0.030 | 0.020 | 0.026 | <0.020 | 0.020 | <1.6 (1) | 1.6 | 7985622 |
| Benzo(a)pyrene | mg/kg | 0.049 | 0.020 | 0.048 | 0.039 | 0.020 | 2.4 | 0.020 | 7985622 |
| Indeno(1,2,3-cd)pyrene | mg/kg | <0.050 | 0.050 | <0.050 | <0.050 | 0.050 | 1.5 | 0.050 | 7985622 |
| Dibenz(a,h)anthracene | mg/kg | <0.050 | 0.050 | <0.050 | <0.050 | 0.050 | 0.38 | 0.050 | 7985622 |
| Benzo(g,h,i)perylene | mg/kg | <0.050 | 0.050 | <0.050 | <0.050 | 0.050 | 1.5 | 0.050 | 7985622 |
| Low Molecular Weight PAH's | mg/kg | 0.53 | 0.050 | 0.082 | 0.12 | 0.050 | 2.1 | 0.050 | 7979472 |
| High Molecular Weight PAH's | mg/kg | 1.3 | 0.050 | 0.44 | 0.32 | 0.050 | 61 | 1.6 | 7979472 |
| Total PAH | mg/kg | 1.8 | 0.050 | 0.52 | 0.44 | 0.050 | 64 | 1.6 | 7979472 |
| Surrogate Recovery (%) | | | | | | | | | |
| D10-ANTHRACENE (sur.) | % | 83 | | 81 | 79 | | 83 | | 7985622 |
| D8-ACENAPHTHYLENE (sur.) | % | 82 | | 80 | 79 | | 82 | | 7985622 |
| D8-NAPHTHALENE (sur.) | % | 81 | | 78 | 79 | | 81 | | 7985622 |
| TERPHENYL-D14 (sur.) | % | 86 | | 86 | 84 | | 89 | | 7985622 |
| RDL = Reportable Detection Limit | | | | | | | | | |
| (1) Detection limits raised due to matrix interference. | | | | | | | | | |
| (2) Detection limits raised due to dilution to bring analyte within the calibrated range. | | | | | | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

CCME PAH IN SOIL BY GC-MS (SOIL)

| | | | | |
|-------------------------------------|--------------|----------------|------------|-----------------|
| Maxxam ID | | MS8758 | | |
| Sampling Date | | 2015/07/22 | | |
| COC Number | | 08412243 | | |
| | UNITS | SS15-05 | RDL | QC Batch |
| Calculated Parameters | | | | |
| Index of Additive Cancer Risk(IARC) | N/A | 3.2 | 0.10 | 7979446 |
| Benzo[a]pyrene equivalency | N/A | 0.22 | 0.10 | 7979446 |
| Polycyclic Aromatics | | | | |
| Naphthalene | mg/kg | 0.053 | 0.010 | 7985622 |
| 2-Methylnaphthalene | mg/kg | 0.032 | 0.020 | 7985622 |
| Acenaphthylene | mg/kg | 0.022 | 0.0050 | 7985622 |
| Acenaphthene | mg/kg | 0.016 | 0.0050 | 7985622 |
| Fluorene | mg/kg | <0.020 | 0.020 | 7985622 |
| Phenanthrene | mg/kg | 0.098 | 0.020 | 7985622 |
| Anthracene | mg/kg | 0.051 | 0.0040 | 7985622 |
| Fluoranthene | mg/kg | 0.16 | 0.020 | 7985622 |
| Pyrene | mg/kg | 0.14 | 0.020 | 7985622 |
| Benzo(a)anthracene | mg/kg | 0.092 | 0.020 | 7985622 |
| Chrysene | mg/kg | 0.19 | 0.020 | 7985622 |
| Benzo(b&j)fluoranthene | mg/kg | 0.29 | 0.020 | 7985622 |
| Benzo(b)fluoranthene | mg/kg | 0.19 | 0.020 | 7985622 |
| Benzo(k)fluoranthene | mg/kg | 0.085 | 0.020 | 7985622 |
| Benzo(a)pyrene | mg/kg | 0.14 | 0.020 | 7985622 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.11 | 0.050 | 7985622 |
| Dibenz(a,h)anthracene | mg/kg | <0.050 | 0.050 | 7985622 |
| Benzo(g,h,i)perylene | mg/kg | 0.13 | 0.050 | 7985622 |
| Low Molecular Weight PAH`s | mg/kg | 0.27 | 0.050 | 7979472 |
| High Molecular Weight PAH`s | mg/kg | 1.3 | 0.050 | 7979472 |
| Total PAH | mg/kg | 1.6 | 0.050 | 7979472 |
| Surrogate Recovery (%) | | | | |
| D10-ANTHRACENE (sur.) | % | 81 | | 7985622 |
| D8-ACENAPHTHYLENE (sur.) | % | 81 | | 7985622 |
| D8-NAPHTHALENE (sur.) | % | 79 | | 7985622 |
| TERPHENYL-D14 (sur.) | % | 86 | | 7985622 |
| RDL = Reportable Detection Limit | | | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

GENERAL COMMENTS

Revised Report (Version 3R): Total metals analysis added on selected samples [GRR].

Sample NT9891-01 : Mercury analysis was done past recommended hold time due to late request.

Sample NT9892-01 : Mercury analysis was done past recommended hold time due to late request.

Sample NT9893-01 : Mercury analysis was done past recommended hold time due to late request.

Sample NT9894-01 : Mercury analysis was done past recommended hold time due to late request.

Sample NT9895-01 : Mercury analysis was done past recommended hold time due to late request.

Sample NT9896-01 : Mercury analysis was done past recommended hold time due to late request.

Sample NT9897-01 : Mercury analysis was done past recommended hold time due to late request.

Sample NT9898-01 : Mercury analysis was done past recommended hold time due to late request.

Sample NT9899-01 : Mercury analysis was done past recommended hold time due to late request.

Results relate only to the items tested.

Maxxam Job #: B563309
Report Date: 2015/12/08

QUALITY ASSURANCE REPORT

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|----------|--------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 7985622 | D10-ANTHRACENE (sur.) | 2015/07/30 | 84 | 60 - 130 | 79 | 60 - 130 | 70 | % | | | | |
| 7985622 | D8-ACENAPHTHYLENE (sur.) | 2015/07/30 | 81 | 50 - 130 | 81 | 50 - 130 | 68 | % | | | | |
| 7985622 | D8-NAPHTHALENE (sur.) | 2015/07/30 | 76 | 50 - 130 | 81 | 50 - 130 | 69 | % | | | | |
| 7985622 | TERPHENYL-D14 (sur.) | 2015/07/30 | 86 | 60 - 130 | 85 | 60 - 130 | 73 | % | | | | |
| 7986758 | O-TERPHENYL (sur.) | 2015/07/30 | 89 | 50 - 130 | 86 | 50 - 130 | 105 | % | | | | |
| 7980071 | Moisture | 2015/07/27 | | | | | <0.30 | % | NC | 20 | | |
| 7980608 | Moisture | 2015/07/27 | | | | | <0.30 | % | 15 | 20 | | |
| 7985310 | Total Aluminum (Al) | 2015/07/30 | | | | | <100 | mg/kg | 0.88 | 35 | 114 | 70 - 130 |
| 7985310 | Total Antimony (Sb) | 2015/07/30 | 96 | 75 - 125 | 97 | 75 - 125 | <0.10 | mg/kg | NC | 30 | 109 | 70 - 130 |
| 7985310 | Total Arsenic (As) | 2015/07/30 | 96 | 75 - 125 | 99 | 75 - 125 | <0.50 | mg/kg | 0.26 | 30 | 100 | 70 - 130 |
| 7985310 | Total Barium (Ba) | 2015/07/30 | NC | 75 - 125 | 97 | 75 - 125 | <0.10 | mg/kg | 0.34 | 35 | 103 | 70 - 130 |
| 7985310 | Total Beryllium (Be) | 2015/07/30 | 108 | 75 - 125 | 109 | 75 - 125 | <0.40 | mg/kg | NC | 30 | | |
| 7985310 | Total Bismuth (Bi) | 2015/07/30 | | | | | <0.10 | mg/kg | NC | 30 | | |
| 7985310 | Total Cadmium (Cd) | 2015/07/30 | 100 | 75 - 125 | 102 | 75 - 125 | <0.050 | mg/kg | NC | 30 | 105 | 70 - 130 |
| 7985310 | Total Calcium (Ca) | 2015/07/30 | | | | | <100 | mg/kg | 0.37 | 30 | 100 | 70 - 130 |
| 7985310 | Total Chromium (Cr) | 2015/07/30 | NC | 75 - 125 | 98 | 75 - 125 | <1.0 | mg/kg | 1.1 | 30 | 103 | 70 - 130 |
| 7985310 | Total Cobalt (Co) | 2015/07/30 | 92 | 75 - 125 | 98 | 75 - 125 | <0.30 | mg/kg | 0.19 | 30 | 91 | 70 - 130 |
| 7985310 | Total Copper (Cu) | 2015/07/30 | NC | 75 - 125 | 100 | 75 - 125 | <0.50 | mg/kg | 0.051 | 30 | 93 | 70 - 130 |
| 7985310 | Total Iron (Fe) | 2015/07/30 | | | | | <100 | mg/kg | 1.0 | 30 | 96 | 70 - 130 |
| 7985310 | Total Lead (Pb) | 2015/07/30 | 97 | 75 - 125 | 97 | 75 - 125 | <0.10 | mg/kg | 8.9 | 35 | 103 | 70 - 130 |
| 7985310 | Total Lithium (Li) | 2015/07/30 | 99 | 75 - 125 | 98 | 75 - 125 | <5.0 | mg/kg | NC | 30 | | |
| 7985310 | Total Magnesium (Mg) | 2015/07/30 | | | | | <100 | mg/kg | 0.44 | 30 | 97 | 70 - 130 |
| 7985310 | Total Manganese (Mn) | 2015/07/30 | NC | 75 - 125 | 99 | 75 - 125 | <0.20 | mg/kg | 2.3 | 30 | 97 | 70 - 130 |
| 7985310 | Total Mercury (Hg) | 2015/07/30 | 97 | 75 - 125 | 99 | 75 - 125 | <0.050 | mg/kg | NC | 35 | 114 | 70 - 130 |
| 7985310 | Total Molybdenum (Mo) | 2015/07/30 | 105 | 75 - 125 | 97 | 75 - 125 | <0.10 | mg/kg | NC | 35 | 109 | 70 - 130 |
| 7985310 | Total Nickel (Ni) | 2015/07/30 | NC | 75 - 125 | 99 | 75 - 125 | <0.80 | mg/kg | 0.66 | 30 | 96 | 70 - 130 |
| 7985310 | Total Phosphorus (P) | 2015/07/30 | | | | | <10 | mg/kg | 2.7 | 30 | 94 | 70 - 130 |
| 7985310 | Total Potassium (K) | 2015/07/30 | | | | | <100 | mg/kg | 0.73 | 35 | | |
| 7985310 | Total Selenium (Se) | 2015/07/30 | 102 | 75 - 125 | 107 | 75 - 125 | <0.50 | mg/kg | NC | 30 | | |
| 7985310 | Total Silver (Ag) | 2015/07/30 | 97 | 75 - 125 | 94 | 75 - 125 | <0.050 | mg/kg | NC | 35 | 97 | 60 - 140 |
| 7985310 | Total Sodium (Na) | 2015/07/30 | | | | | <100 | mg/kg | NC | 35 | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

QUALITY ASSURANCE REPORT(CONT'D)

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|----------|---------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 7985310 | Total Strontium (Sr) | 2015/07/30 | NC | 75 - 125 | 93 | 75 - 125 | <0.10 | mg/kg | 0.62 | 35 | 100 | 70 - 130 |
| 7985310 | Total Thallium (Tl) | 2015/07/30 | 97 | 75 - 125 | 96 | 75 - 125 | <0.050 | mg/kg | NC | 30 | 91 | 70 - 130 |
| 7985310 | Total Tin (Sn) | 2015/07/30 | 91 | 75 - 125 | 93 | 75 - 125 | <0.10 | mg/kg | 4.4 | 35 | | |
| 7985310 | Total Titanium (Ti) | 2015/07/30 | NC | 75 - 125 | 93 | 75 - 125 | <1.0 | mg/kg | 0.056 | 35 | 105 | 70 - 130 |
| 7985310 | Total Uranium (U) | 2015/07/30 | 99 | 75 - 125 | 96 | 75 - 125 | <0.050 | mg/kg | 5.8 | 30 | 117 | 70 - 130 |
| 7985310 | Total Vanadium (V) | 2015/07/30 | NC | 75 - 125 | 97 | 75 - 125 | <2.0 | mg/kg | 0.50 | 30 | 101 | 70 - 130 |
| 7985310 | Total Zinc (Zn) | 2015/07/30 | NC | 75 - 125 | 109 | 75 - 125 | <1.0 | mg/kg | 0.39 | 30 | 96 | 70 - 130 |
| 7985310 | Total Zirconium (Zr) | 2015/07/30 | | | | | <0.50 | mg/kg | 0.12 | 30 | | |
| 7985375 | Soluble (2:1) pH | 2015/07/30 | | | 100 | 97 - 103 | | | 0.13 | N/A | | |
| 7985622 | 2-Methylnaphthalene | 2015/07/30 | 77 | 50 - 130 | 80 | 50 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Acenaphthene | 2015/07/30 | 77 | 50 - 130 | 81 | 50 - 130 | <0.0050 | mg/kg | NC (1) | 50 | | |
| 7985622 | Acenaphthylene | 2015/07/30 | 77 | 50 - 130 | 79 | 50 - 130 | <0.0050 | mg/kg | NC | 50 | | |
| 7985622 | Anthracene | 2015/07/30 | 83 | 60 - 130 | 80 | 60 - 130 | <0.0040 | mg/kg | NC | 50 | | |
| 7985622 | Benzo(a)anthracene | 2015/07/30 | 73 | 60 - 130 | 76 | 60 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Benzo(a)pyrene | 2015/07/30 | 74 | 60 - 130 | 77 | 60 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Benzo(b&j)fluoranthene | 2015/07/30 | 71 | 60 - 130 | 75 | 60 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Benzo(b)fluoranthene | 2015/07/30 | 71 | 60 - 130 | 75 | 60 - 130 | <0.020 | mg/kg | NC | 20 | | |
| 7985622 | Benzo(g,h,i)perylene | 2015/07/30 | 75 | 60 - 130 | 74 | 60 - 130 | <0.050 | mg/kg | NC | 50 | | |
| 7985622 | Benzo(k)fluoranthene | 2015/07/30 | 78 | 60 - 130 | 82 | 60 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Chrysene | 2015/07/30 | 75 | 60 - 130 | 79 | 60 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Dibenz(a,h)anthracene | 2015/07/30 | 78 | 60 - 130 | 75 | 60 - 130 | <0.050 | mg/kg | NC | 50 | | |
| 7985622 | Fluoranthene | 2015/07/30 | 78 | 60 - 130 | 81 | 60 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Fluorene | 2015/07/30 | 76 | 50 - 130 | 79 | 50 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Indeno(1,2,3-cd)pyrene | 2015/07/30 | 78 | 60 - 130 | 76 | 60 - 130 | <0.050 | mg/kg | NC | 50 | | |
| 7985622 | Naphthalene | 2015/07/30 | 74 | 50 - 130 | 81 | 50 - 130 | <0.010 | mg/kg | NC | 50 | | |
| 7985622 | Phenanthrene | 2015/07/30 | 75 | 60 - 130 | 79 | 60 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7985622 | Pyrene | 2015/07/30 | 75 | 60 - 130 | 77 | 60 - 130 | <0.020 | mg/kg | NC | 50 | | |
| 7986758 | F2 (C10-C16 Hydrocarbons) | 2015/07/30 | 104 | 50 - 130 | 102 | 70 - 130 | <10 | mg/kg | NC | 40 | | |
| 7986758 | F3 (C16-C34 Hydrocarbons) | 2015/07/30 | 107 | 50 - 130 | 110 | 70 - 130 | <10 | mg/kg | 15 | 40 | | |
| 7986758 | F4 (C34-C50 Hydrocarbons) | 2015/07/30 | 96 | 70 - 130 | 90 | 70 - 130 | <10 | mg/kg | 37 | 40 | | |
| 7986758 | Reached Baseline at C50 | 2015/07/30 | | | | | YES | mg/kg | NC | 50 | | |

Maxxam Job #: B563309
Report Date: 2015/12/08

QUALITY ASSURANCE REPORT(CONT'D)

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|----------|-----------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 7986960 | Total Aluminum (Al) | 2015/07/31 | | | | | <100 | mg/kg | 2.0 | 35 | 118 | 70 - 130 |
| 7986960 | Total Antimony (Sb) | 2015/07/31 | 87 | 75 - 125 | 95 | 75 - 125 | <0.10 | mg/kg | NC | 30 | 99 | 70 - 130 |
| 7986960 | Total Arsenic (As) | 2015/07/31 | 93 | 75 - 125 | 93 | 75 - 125 | <0.50 | mg/kg | NC | 30 | 106 | 70 - 130 |
| 7986960 | Total Barium (Ba) | 2015/07/31 | NC | 75 - 125 | 99 | 75 - 125 | <0.10 | mg/kg | 1.3 | 35 | 103 | 70 - 130 |
| 7986960 | Total Beryllium (Be) | 2015/07/31 | 102 | 75 - 125 | 99 | 75 - 125 | <0.40 | mg/kg | NC | 30 | | |
| 7986960 | Total Bismuth (Bi) | 2015/07/31 | | | | | <0.10 | mg/kg | | | | |
| 7986960 | Total Cadmium (Cd) | 2015/07/31 | 99 | 75 - 125 | 99 | 75 - 125 | <0.050 | mg/kg | NC | 30 | 106 | 70 - 130 |
| 7986960 | Total Calcium (Ca) | 2015/07/31 | | | | | <100 | mg/kg | | | 99 | 70 - 130 |
| 7986960 | Total Chromium (Cr) | 2015/07/31 | 95 | 75 - 125 | 99 | 75 - 125 | <1.0 | mg/kg | 0.71 | 30 | 105 | 70 - 130 |
| 7986960 | Total Cobalt (Co) | 2015/07/31 | 95 | 75 - 125 | 99 | 75 - 125 | <0.30 | mg/kg | 3.2 | 30 | 94 | 70 - 130 |
| 7986960 | Total Copper (Cu) | 2015/07/31 | NC | 75 - 125 | 102 | 75 - 125 | <0.50 | mg/kg | 1.5 | 30 | 94 | 70 - 130 |
| 7986960 | Total Iron (Fe) | 2015/07/31 | | | | | <100 | mg/kg | | | 95 | 70 - 130 |
| 7986960 | Total Lead (Pb) | 2015/07/31 | 97 | 75 - 125 | 99 | 75 - 125 | <0.10 | mg/kg | 1.7 | 35 | 97 | 70 - 130 |
| 7986960 | Total Lithium (Li) | 2015/07/31 | 101 | 75 - 125 | 100 | 75 - 125 | <5.0 | mg/kg | | | | |
| 7986960 | Total Magnesium (Mg) | 2015/07/31 | | | | | <100 | mg/kg | | | 95 | 70 - 130 |
| 7986960 | Total Manganese (Mn) | 2015/07/31 | NC | 75 - 125 | 98 | 75 - 125 | <0.20 | mg/kg | 0.42 | 30 | 99 | 70 - 130 |
| 7986960 | Total Mercury (Hg) | 2015/07/31 | 94 | 75 - 125 | 93 | 75 - 125 | <0.050 | mg/kg | NC | 35 | 90 | 70 - 130 |
| 7986960 | Total Molybdenum (Mo) | 2015/07/31 | 100 | 75 - 125 | 100 | 75 - 125 | <0.10 | mg/kg | 3.2 | 35 | 100 | 70 - 130 |
| 7986960 | Total Nickel (Ni) | 2015/07/31 | 98 | 75 - 125 | 101 | 75 - 125 | <0.80 | mg/kg | 1.5 | 30 | 97 | 70 - 130 |
| 7986960 | Total Phosphorus (P) | 2015/07/31 | | | | | <10 | mg/kg | | | 93 | 70 - 130 |
| 7986960 | Total Potassium (K) | 2015/07/31 | | | | | <100 | mg/kg | | | | |
| 7986960 | Total Selenium (Se) | 2015/07/31 | 96 | 75 - 125 | 93 | 75 - 125 | <0.50 | mg/kg | NC | 30 | | |
| 7986960 | Total Silver (Ag) | 2015/07/31 | 95 | 75 - 125 | 97 | 75 - 125 | <0.050 | mg/kg | NC | 35 | 101 | 60 - 140 |
| 7986960 | Total Sodium (Na) | 2015/07/31 | | | | | <100 | mg/kg | | | | |
| 7986960 | Total Strontium (Sr) | 2015/07/31 | NC | 75 - 125 | 95 | 75 - 125 | <0.10 | mg/kg | 0.87 | 35 | 101 | 70 - 130 |
| 7986960 | Total Thallium (Tl) | 2015/07/31 | 99 | 75 - 125 | 97 | 75 - 125 | <0.050 | mg/kg | | | 89 | 70 - 130 |
| 7986960 | Total Tin (Sn) | 2015/07/31 | 90 | 75 - 125 | 92 | 75 - 125 | <0.10 | mg/kg | NC | 35 | | |
| 7986960 | Total Titanium (Ti) | 2015/07/31 | NC | 75 - 125 | 95 | 75 - 125 | <1.0 | mg/kg | 0.65 | 35 | 107 | 70 - 130 |
| 7986960 | Total Uranium (U) | 2015/07/31 | 96 | 75 - 125 | 97 | 75 - 125 | <0.050 | mg/kg | | | 105 | 70 - 130 |
| 7986960 | Total Vanadium (V) | 2015/07/31 | NC | 75 - 125 | 94 | 75 - 125 | <2.0 | mg/kg | 0.34 | 30 | 103 | 70 - 130 |
| 7986960 | Total Zinc (Zn) | 2015/07/31 | NC | 75 - 125 | 96 | 75 - 125 | <1.0 | mg/kg | 0.38 | 30 | 95 | 70 - 130 |

Maxxam Job #: B563309
Report Date: 2015/12/08

QUALITY ASSURANCE REPORT(CONT'D)

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|----------|-------------------------|------------|--------------|-----------|--------------|-----------|-------------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 7986960 | Total Zirconium (Zr) | 2015/07/31 | | | | | <0.50 | mg/kg | | | | |
| 7987108 | Soluble (2:1) pH | 2015/07/31 | | | 100 | 97 - 103 | | | 0.21 | N/A | | |
| 7996410 | 200 mesh (<.075 mm) | 2015/08/10 | | | | | | | 12 | 35 | | |
| 7996410 | 200 mesh (>.075 mm) | 2015/08/10 | | | | | | | 8.3 | 35 | | |
| 8100948 | Saturation % | 2015/11/04 | | | | | <1.0 | % | 0.59 | 30 | 106 | 75 - 125 |
| 8101214 | Final pH of Leachate | 2015/11/05 | | | | | 4.94 | pH | 0.65 | N/A | | |
| 8101214 | Initial pH of Sample | 2015/11/05 | | | | | 4.94 | pH | 3.2 | N/A | | |
| 8101214 | pH after HCl | 2015/11/05 | | | | | | | 1.9 | N/A | | |
| 8101214 | pH of Leaching Fluid | 2015/11/05 | | | | | 4.94 | pH | 0 | N/A | | |
| 8101387 | Wet Soluble Sodium (Na) | 2015/11/04 | | | | | <5.0 | mg/L | 0.65 | 30 | 96 | 75 - 125 |
| 8101804 | Soluble Chloride (Cl) | 2015/11/04 | 113 | 75 - 125 | 103 | 80 - 120 | <5.0 | mg/L | | | 103 | 75 - 125 |
| 8102156 | LEACHATE Lead (Pb) | 2015/11/05 | 111 | 75 - 125 | 101 | 75 - 125 | <0.10 | mg/L | NC | 35 | | |
| 8135467 | Total Aluminum (Al) | 2015/12/07 | | | | | <100 | mg/kg | 0.19 | 35 | 104 | 70 - 130 |
| 8135467 | Total Antimony (Sb) | 2015/12/07 | 84 | 75 - 125 | 96 | 75 - 125 | <0.10 | mg/kg | 32 (3) | 30 | 95 | 70 - 130 |
| 8135467 | Total Arsenic (As) | 2015/12/07 | 89 | 75 - 125 | 100 | 75 - 125 | 0.67, RDL=0.50 | mg/kg | 13 | 30 | 93 | 70 - 130 |
| 8135467 | Total Barium (Ba) | 2015/12/07 | NC | 75 - 125 | 98 | 75 - 125 | <0.10 | mg/kg | 0.70 | 35 | 102 | 70 - 130 |
| 8135467 | Total Beryllium (Be) | 2015/12/07 | 99 | 75 - 125 | 98 | 75 - 125 | <0.40 | mg/kg | NC | 30 | | |
| 8135467 | Total Bismuth (Bi) | 2015/12/07 | | | | | <0.10 | mg/kg | NC | 30 | | |
| 8135467 | Total Cadmium (Cd) | 2015/12/07 | 99 | 75 - 125 | 101 | 75 - 125 | <0.050 | mg/kg | NC | 30 | 105 | 70 - 130 |
| 8135467 | Total Calcium (Ca) | 2015/12/07 | | | | | <100 | mg/kg | 4.2 | 30 | 100 | 70 - 130 |
| 8135467 | Total Chromium (Cr) | 2015/12/07 | NC | 75 - 125 | 99 | 75 - 125 | <1.0 | mg/kg | 0.62 | 30 | 107 | 70 - 130 |
| 8135467 | Total Cobalt (Co) | 2015/12/07 | 93 | 75 - 125 | 99 | 75 - 125 | <0.30 | mg/kg | 13 | 30 | 94 | 70 - 130 |
| 8135467 | Total Copper (Cu) | 2015/12/07 | NC | 75 - 125 | 102 | 75 - 125 | <0.50 | mg/kg | 0.057 | 30 | 90 | 70 - 130 |
| 8135467 | Total Iron (Fe) | 2015/12/07 | | | | | <100 | mg/kg | 0.78 | 30 | 95 | 70 - 130 |
| 8135467 | Total Lead (Pb) | 2015/12/07 | 95 | 75 - 125 | 97 | 75 - 125 | <0.10 | mg/kg | 6.0 | 35 | 102 | 70 - 130 |
| 8135467 | Total Lithium (Li) | 2015/12/07 | 101 | 75 - 125 | 100 | 75 - 125 | <5.0 | mg/kg | NC | 30 | | |
| 8135467 | Total Magnesium (Mg) | 2015/12/07 | | | | | <100 | mg/kg | 2.0 | 30 | 94 | 70 - 130 |
| 8135467 | Total Manganese (Mn) | 2015/12/07 | NC | 75 - 125 | 98 | 75 - 125 | <0.20 | mg/kg | 5.2 | 30 | 100 | 70 - 130 |
| 8135467 | Total Mercury (Hg) | 2015/12/07 | 104 | 75 - 125 | 104 | 75 - 125 | <0.050 | mg/kg | NC | 35 | 102 | 70 - 130 |
| 8135467 | Total Molybdenum (Mo) | 2015/12/07 | 97 | 75 - 125 | 96 | 75 - 125 | <0.10 | mg/kg | 34 | 35 | 101 | 70 - 130 |

Maxxam Job #: B563309
Report Date: 2015/12/08

QUALITY ASSURANCE REPORT(CONT'D)

SNC-LAVALIN INC.
Client Project #: 630547
Sampler Initials: ME

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | | QC Standard | |
|----------|----------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 8135467 | Total Nickel (Ni) | 2015/12/07 | NC | 75 - 125 | 99 | 75 - 125 | <0.80 | mg/kg | 3.5 | 30 | 94 | 70 - 130 |
| 8135467 | Total Phosphorus (P) | 2015/12/07 | | | | | <10 | mg/kg | 1.1 | 30 | 92 | 70 - 130 |
| 8135467 | Total Potassium (K) | 2015/12/07 | | | | | <100 | mg/kg | 4.6 | 35 | | |
| 8135467 | Total Selenium (Se) | 2015/12/07 | 91 | 75 - 125 | 107 | 75 - 125 | <0.50 | mg/kg | NC | 30 | | |
| 8135467 | Total Silver (Ag) | 2015/12/07 | 99 | 75 - 125 | 100 | 75 - 125 | <0.050 | mg/kg | NC | 35 | 94 | 60 - 140 |
| 8135467 | Total Sodium (Na) | 2015/12/07 | | | | | <100 | mg/kg | NC | 35 | | |
| 8135467 | Total Strontium (Sr) | 2015/12/07 | NC | 75 - 125 | 91 | 75 - 125 | <0.10 | mg/kg | 0.55 | 35 | 98 | 70 - 130 |
| 8135467 | Total Thallium (Tl) | 2015/12/07 | 95 | 75 - 125 | 98 | 75 - 125 | <0.050 | mg/kg | NC | 30 | 91 | 70 - 130 |
| 8135467 | Total Tin (Sn) | 2015/12/07 | 87 | 75 - 125 | 83 | 75 - 125 | <0.10 | mg/kg | 4.9 | 35 | | |
| 8135467 | Total Titanium (Ti) | 2015/12/07 | NC | 75 - 125 | 95 | 75 - 125 | <1.0 | mg/kg | 4.7 | 35 | 107 | 70 - 130 |
| 8135467 | Total Uranium (U) | 2015/12/07 | 100 | 75 - 125 | 91 | 75 - 125 | <0.050 | mg/kg | 3.8 | 30 | 133 (2) | 70 - 130 |
| 8135467 | Total Vanadium (V) | 2015/12/07 | NC | 75 - 125 | 100 | 75 - 125 | <2.0 | mg/kg | 0.64 | 30 | 106 | 70 - 130 |
| 8135467 | Total Zinc (Zn) | 2015/12/07 | NC | 75 - 125 | 111 | 75 - 125 | 1.5, RDL=1.0 | mg/kg | 2.3 | 30 | 92 | 70 - 130 |
| 8135467 | Total Zirconium (Zr) | 2015/12/07 | | | | | <0.50 | mg/kg | 7.9 | 30 | | |
| 8135550 | Soluble (2:1) pH | 2015/12/07 | | | 100 | 97 - 103 | | | 0.78 | N/A | | |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Detection limits raised due to matrix interference.

(2) Reference Material exceeds acceptance criteria for Uranium. 10% of analytes failure in multielement scan is allowed.

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5. Toll Free (800) 665-8566


| Invoice Information | Report Information (if differs from invoice) | Project Information (where applicable) | Turnaround Time (TAT) Required |
|--|--|--|--|
| Company Name: SNC-Lavalin Environment and Water | Company Name: | Quotation #: PWGSC | <input checked="" type="checkbox"/> Regular TAT 5 days (Most analyses) |
| Contact Name: Doug McMillan | Contact Name: | P.O. #/ AFE#: | PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS |
| Address: 202-3440 Douglas Street | Address: | Project #: 630547 | Rush TAT (Surcharges will be applied) |
| Victoria, BC PC: V8Z 3L5 | PC: | Site Location: | <input type="checkbox"/> Same Day <input type="checkbox"/> 2 Days |
| Phone: 250-385-5028 | Phone: | Site #: | <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Days |
| Email: doug.mcmillan@snc-lavalin.com | Email: mark.edwards@snc-lavalin.com | Sampled By: ME | Date Required: |

| Regulatory Criteria | Special Instructions | Analysis Requested | Rush Confirmation #: |
|--|---|--|--------------------------|
| <input type="checkbox"/> BC CSR Soil <input type="checkbox"/> BC CSR Water <input checked="" type="checkbox"/> CCME (Specify) <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Drinking Water <input type="checkbox"/> BC Water Quality | <input type="checkbox"/> Return Cooler <input type="checkbox"/> Ship Sample Bottles (Please Specify) | <input type="checkbox"/> BTEX/VPH <input type="checkbox"/> MTBE <input type="checkbox"/> VOC/VPH <input type="checkbox"/> EPH <input type="checkbox"/> TEH <input type="checkbox"/> PAH <input type="checkbox"/> LEPA/NEPA <input type="checkbox"/> CCME-PHC <input type="checkbox"/> BTEX/E1 <input type="checkbox"/> E2-E4 <input type="checkbox"/> Dissolved Metals Filtered? <input type="checkbox"/> Preserved? <input type="checkbox"/> Dissolved Mercury Filtered? <input type="checkbox"/> Preserved? <input type="checkbox"/> Total Metals Field Preserved? <input type="checkbox"/> Total Mercury Field Preserved? <input type="checkbox"/> Chloride <input type="checkbox"/> Fluoride <input type="checkbox"/> Sulfate <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> BOD <input type="checkbox"/> DDD <input type="checkbox"/> pH <input type="checkbox"/> Conductivity <input type="checkbox"/> Alkalinity <input type="checkbox"/> Nitrite <input type="checkbox"/> Nitrate <input type="checkbox"/> Ammonia | <input type="checkbox"/> |
| SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM | | | |

| Sample Identification | Lab Identification | Date Sampled (YYYY/MM/DD) | Time Sampled (HH:MM) | Matrix | BTEX/VPH | MTBE | VOC/VPH | EPH | TEH | PAH | LEPA/NEPA | CCME-PHC | BTEX/E1 | E2-E4 | Dissolved Metals Filtered? | Dissolved Mercury Filtered? | Total Metals Field Preserved? | Total Mercury Field Preserved? | Chloride | Fluoride | Sulfate | TSS | TDS | BOD | DDD | pH | Conductivity | Alkalinity | Nitrite | Nitrate | Ammonia | # OF CONTAINERS SUBMITTED | HOLD - DO NOT ANALYZE | LABORATORY USE ONLY | COOLING MEDIA PRESENT | COMMENTS |
|-----------------------|--------------------|---------------------------|----------------------|--------|----------|------|---------|-----|-----|-----|-----------|----------|---------|-------|----------------------------|-----------------------------|-------------------------------|--------------------------------|----------|----------|---------|-----|-----|-----|-----|----|--------------|------------|---------|---------|---------|---------------------------|-----------------------|---------------------|-----------------------|----------|
| 1 | TP15-01-01 | M58631 | 2015/07/22 | Soil | | | | | | | | | | | | | X | | | | | | | | | | | | | | 2 | | Y | N | | |
| 2 | TP15-01-02 | M58632 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | X | Y | N | | |
| 3 | TP15-02-01 | M58633 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | X | Y | N | | |
| 4 | TP15-02-02 | M58634 | 2015/07/22 | Soil | | | | | | | | | | | | | X | | | | | | | | | | | | | | 2 | | Y | N | | |
| 5 | TP15-02-03 | M58635 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | X | Y | N | | |
| 6 | TP15-03-01 | M58636 | 2015/07/22 | Soil | | | | | | | | | | | | | X | | | | | | | | | | | | | | 2 | | Y | N | | |
| 7 | TP15-03-02 | M58637 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | X | Y | N | | |
| 8 | TP15-03-03 | M58638 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | X | Y | N | | |
| 9 | TP15-04-01 | M58639 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | X | Y | N | | |
| 10 | TP15-04-02 | M58640 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | X | Y | N | | |





| | | | | | | |
|------------------------------------|--------------------|---------------|--------------------------|--------------------|---------------|--------------|
| RELINQUISHED BY: (Signature/Print) | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | RECEIVED BY: (Signature) | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | MAXXAM JOB # |
| <i>Mark Edwards</i> | 15/07/23 | 1600 | <i>Laurel Beahner</i> | 2015/07/24 | 08:10 | B563309 |

| Invoice Information | Report Information (if differs from invoice) | Project Information | Turnaround Time (TAT) Required |
|--|---|---------------------------|--|
| Company Name: <u>SNC-Lavalin Environment and Water</u> | Company:  B563309 | Quotation #: <u>PWGSC</u> | <input checked="" type="checkbox"/> Regular TAT 5 days (Most analyses) |
| Contact Name: <u>Doug McMillan</u> | Contact: _____ | P.O. #/ AFE#: _____ | PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS |
| Address: <u>202-9440 Douglas Street</u> <u>Victoria, BC PC: V8Z 3L5</u> | Address: _____ | Project #: <u>630547</u> | Rush TAT (Surcharges will be applied) |
| Phone: <u>250-385-5028</u> | Phone: _____ | Site Location: _____ | <input type="checkbox"/> Same Day <input type="checkbox"/> 2 Days |
| Email: <u>doug.mcmillan@snclavalin.com</u> | Email: <u>mark.edwards@snclavalin.com</u> | Site #: _____ | <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Days |
| Sampled By: <u>ME</u> | | | Date Required: _____ |

| Regulatory Criteria | Special Instructions | Analysis Requested | Rush Confirmation #: |
|---|---|--|--|
| <input type="checkbox"/> BC CSR Soil <input type="checkbox"/> BC CSR Water <input type="checkbox"/> CCME (Specify) <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Drinking Water <input type="checkbox"/> BC Water Quality | <input type="checkbox"/> Return Cooler <input type="checkbox"/> Ship Sample Bottles (Please Specify) | <input type="checkbox"/> BITX/VPH <input type="checkbox"/> VPC/VPH <input type="checkbox"/> Dissolved Metals Filtered? <input type="checkbox"/> Preserved? <input type="checkbox"/> EPH <input type="checkbox"/> TEH <input type="checkbox"/> LEPH/NEPH <input type="checkbox"/> F2 - F4 <input type="checkbox"/> Field Preserved? <input type="checkbox"/> CCME-PHC <input type="checkbox"/> BITX/ F1 <input type="checkbox"/> F2 - F4 <input type="checkbox"/> Field Preserved? <input type="checkbox"/> Dissolved Metals Filtered? <input type="checkbox"/> Preserved? <input type="checkbox"/> Total Metals <input type="checkbox"/> Field Preserved? <input type="checkbox"/> Total Mercury <input type="checkbox"/> Field Preserved? <input type="checkbox"/> Chloride <input type="checkbox"/> Fluoride <input type="checkbox"/> Sulphate <input type="checkbox"/> TSS <input type="checkbox"/> TOC <input type="checkbox"/> DO <input type="checkbox"/> pH <input type="checkbox"/> Conductivity <input type="checkbox"/> Alkalinity <input type="checkbox"/> Nitrite <input type="checkbox"/> Nitrate <input type="checkbox"/> Ammonia | LABORATORY USE ONLY CUSTODY SEAL <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N Present Intact COOLER TEMPERATURES Y Y 111 Y Y 111 COOLING MEDIA PRESENT <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N |

| Sample Identification | Lab Identification | Date Sampled (YYYY/MM/DD) | Time Sampled (HH:MM) | Matrix | BITX/VPH | EPH | PAH | CCME-PHC | Dissolved Metals | Dissolved Metals Filtered? | Dissolved Metals Preserved? | Total Metals | Total Mercury | Chloride | Fluoride | Sulphate | TSS | TOC | DO | pH | Conductivity | Alkalinity | Nitrite | Nitrate | Ammonia | # OF CONTAINERS SUBMITTED | HOLD - DO NOT ANALYZE | COMMENTS |
|-----------------------|--------------------|---------------------------|----------------------|--------|----------|-----|-----|----------|------------------|----------------------------|-----------------------------|--------------|---------------|----------|----------|----------|-----|-----|----|----|--------------|------------|---------|---------|---------|---------------------------|-----------------------|----------|
| 1 | TP15-04-03 | M58687 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | 2 | X | | |
| 2 | TP15-04-04 | M58688 | 2015/07/22 | Soil | | | | | | | | X | | | | | | | | | | | | | 2 | | | |
| 3 | TP15-05-01 | M58689 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | 2 | X | | |
| 4 | TP15-05-02 | M58690 | 2015/07/22 | Soil | | | | | | | | X | | | | | | | | | | | | | 2 | | | |
| 5 | TP15-05-03 | M58691 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | 2 | X | | |
| 6 | TP15-06-01 | M58692 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | 2 | X | | |
| 7 | TP15-06-02 | M58693 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | 2 | X | | |
| 8 | TP15-06-03 | M58694 | 2015/07/22 | Soil | | | | | | | | | | | | | | | | | | | | | 2 | X | | |
| 9 | TP15-06-04 | M58695 | 2015/07/22 | Soil | | | | | | | | X | | | | | | | | | | | | | 2 | | | |
| 10 | TP15-07-01 | M58696 | 2015/07/22 | Soil | | | | | | | | X | | | | | | | | | | | | | 2 | | | |

| | | | | | | |
|--|--------------------|---------------|--|--------------------|---------------|--------------|
| RELINQUISHED BY: (Signature/Print) | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | RECEIVED BY: (Signature/Print) | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | MAXXAM JOB # |
|  | 15/07/23 | 16:00 |  | 20/07/24 | 08:10 | B563309 |

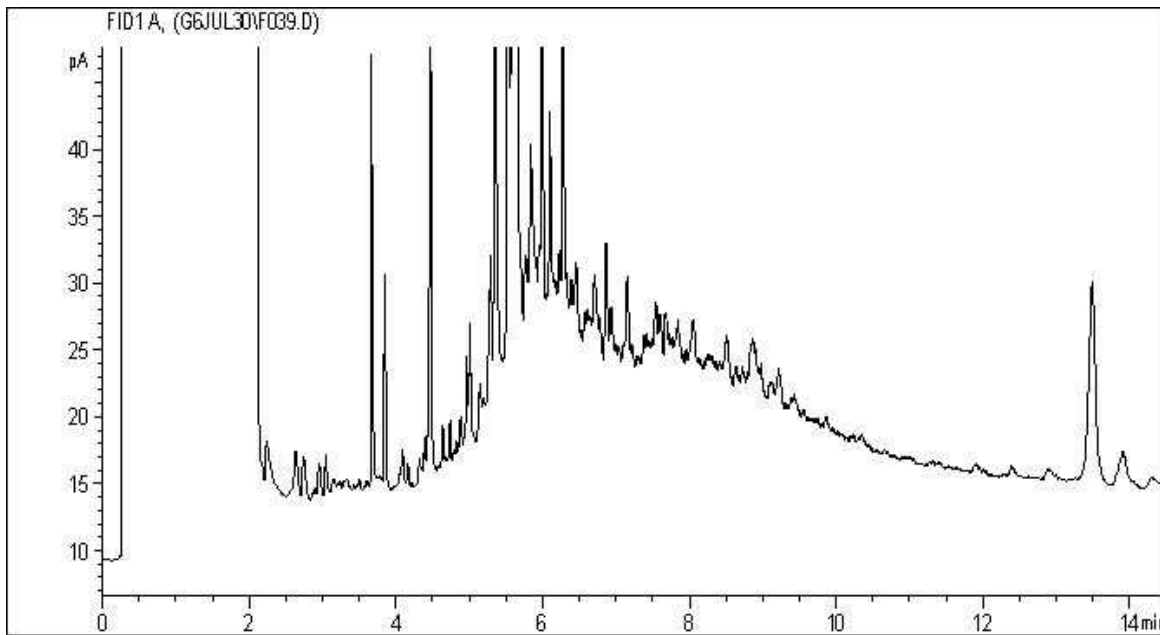
CHAIN OF CUSTODY RECORD

Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5. Toll Free (800) 665-8566

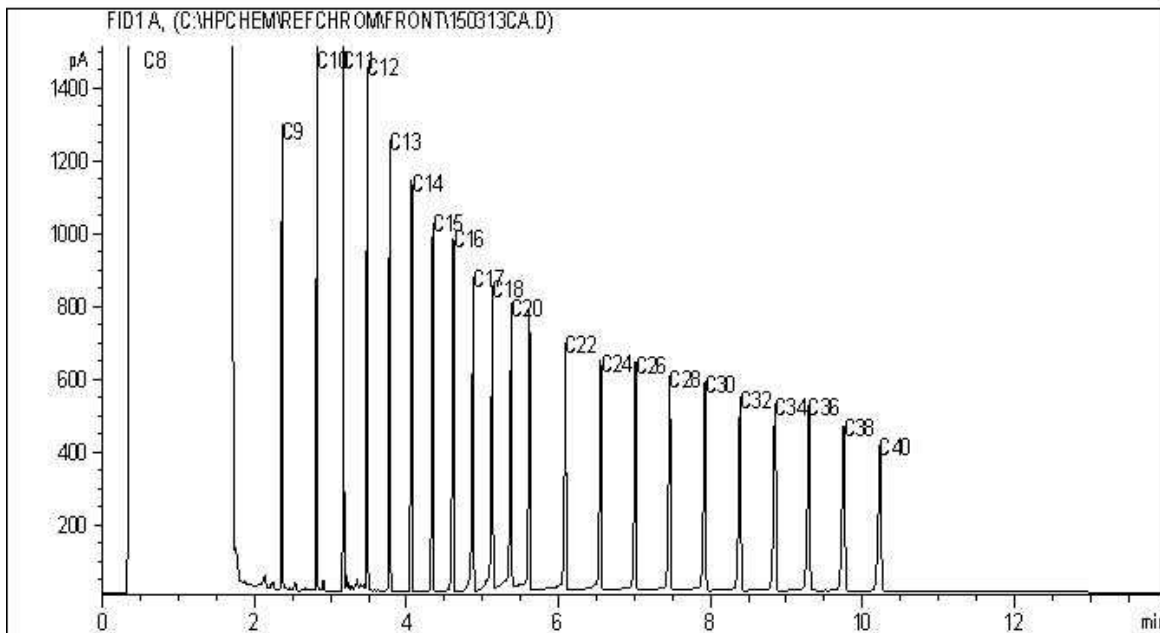


| Invoice Information | | Report Information (if differs from invoice) | | | | Project Inform | | Turnaround Time (TAT) Required | | | | | | | | |
|--|--------------------|---|----------------------|---|--|---------------------------|---------------|--|--|--|---------------------------|-----------------------|--|---|--|---------|
| Company Name: SNC-Lavalin Environment and Water | | | | | | Quotation #: PWGSC | | <input checked="" type="checkbox"/> Regular TAT 5 days (Most analyses) | | | | | | | | |
| Contact Name: Doug McMillan | | | | | | P.O. #/ AFEN: | | PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS Rush TAT (Surcharges will be applied) <input type="checkbox"/> Same Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Days | | | | | | | | |
| Address: 202-3440 Douglas Street | | | | | | Project #: 630547 | | | | | | | | | | |
| Victoria, BC PC: V8Z 3L5 | | | | | | Site Location: | | | | | | | | | | |
| Phone: 250-385-5028 | | | | | | Site #: | | | | | | | | | | |
| Email: doug.mcmillan@snc-lavalin.com | | Email: mark.edwards@snc-lavalin.com | | Sampled By: ME | | Date Required: | | | | | | | | | | |
| Regulatory Criteria | | Special Instructions | | Analysis Requested | | | | | | Rush Confirmation #: | | | | | | |
| <input type="checkbox"/> BC CSR Soil <input type="checkbox"/> BC CSR Water <input checked="" type="checkbox"/> CCME (Specify) <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Drinking Water <input type="checkbox"/> BC Water Quality | | <input type="checkbox"/> Return Cooler <input type="checkbox"/> Ship Sample Bottles (Please Specify) | | <input type="checkbox"/> BTEX/VPH <input type="checkbox"/> MTBE <input type="checkbox"/> VOC/VPH <input type="checkbox"/> EPH <input type="checkbox"/> TEH <input type="checkbox"/> PAH <input checked="" type="checkbox"/> CCME-PHC <input type="checkbox"/> BTEX/F1 <input type="checkbox"/> F2-F4 <input type="checkbox"/> Disolved Metals <input type="checkbox"/> Filtered? <input type="checkbox"/> Preserved? <input type="checkbox"/> Disolved Mercury <input type="checkbox"/> Filtered? <input type="checkbox"/> Preserved? <input type="checkbox"/> Total Metals <input type="checkbox"/> Field Preserved? <input type="checkbox"/> Total Mercury <input type="checkbox"/> Field Preserved? <input type="checkbox"/> Chloride <input type="checkbox"/> Sulphate <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/> BOD <input type="checkbox"/> COD <input type="checkbox"/> pH <input type="checkbox"/> Conductivity <input type="checkbox"/> Alkalinity <input type="checkbox"/> Nitrite <input type="checkbox"/> Nitrate <input type="checkbox"/> Ammonia <input type="checkbox"/> CCME-PHC F2, F4 | | | | | | LABORATORY USE ONLY CUSTODY SEAL Present Intact Y N Y N Y Y Y N COOLING MEDIA PRESENT <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COMMENTS | | | | | | |
| SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM | | | | | | | | | | | | | | | | |
| Sample Identification | Lab Identification | Date Sampled (YYYY/MM/DD) | Time Sampled (HH:MM) | Matrix | | | | | | | # OF CONTAINERS SUBMITTED | HOLD - DO NOT ANALYZE | | | | |
| 1 | TP15-10-03 | MS8657 | 2015/07/22 | Soil | | | | | | | | | | 2 | | MS 8753 |
| 2 | SS15-01 | MS8658 | 2015/07/22 | Soil | | X | | | | | | | | 2 | | MS 8754 |
| 3 | SS15-02 | MS8659 | 2015/07/22 | Soil | | X | | | | | | | | 2 | | MS 8755 |
| 4 | SS15-03 | MS8660 | 2015/07/22 | Soil | | X | | | | | | | | 2 | | MS 8756 |
| 5 | SS15-04 | MS8661 | 2015/07/22 | Soil | | X | | | | | | | | 2 | | MS 8757 |
| 6 | SS15-05 | MS8662 | 2015/07/22 | Soil | | X | | | | | | | | 2 | | MS 8758 |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature/Print) | | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | RECEIVED BY: (Signature/Print) | | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | MAXXAM JOB # | | | | | | | | |
| <i>Mark Edwards</i> | | 15/07/23 | 1600 | <i>Laurel Boucher</i> | | 2015/07/24 | 08:10 | B563309 | | | | | | | | |

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



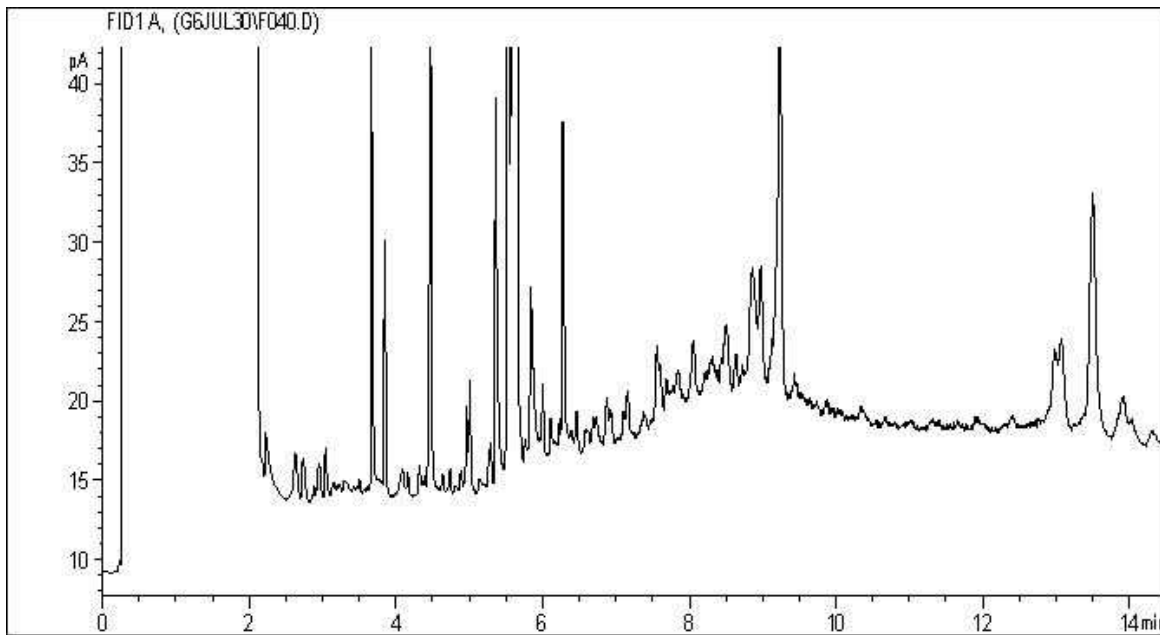
Carbon Range Distribution - Reference Chromatogram



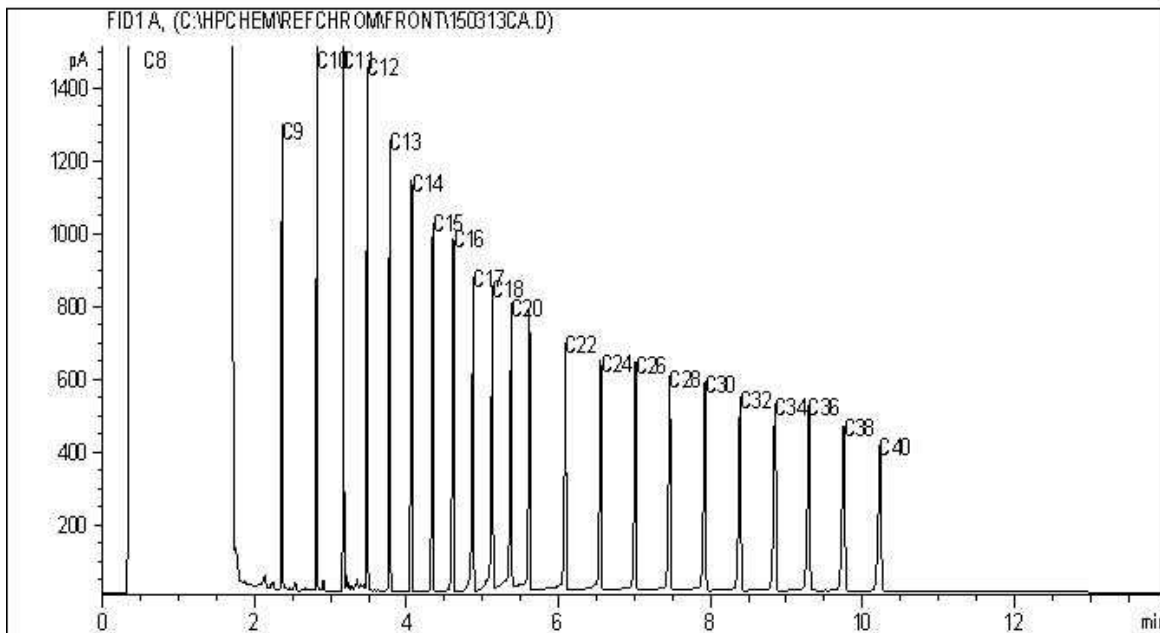
TYPICAL PRODUCT CARBON NUMBER RANGES

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



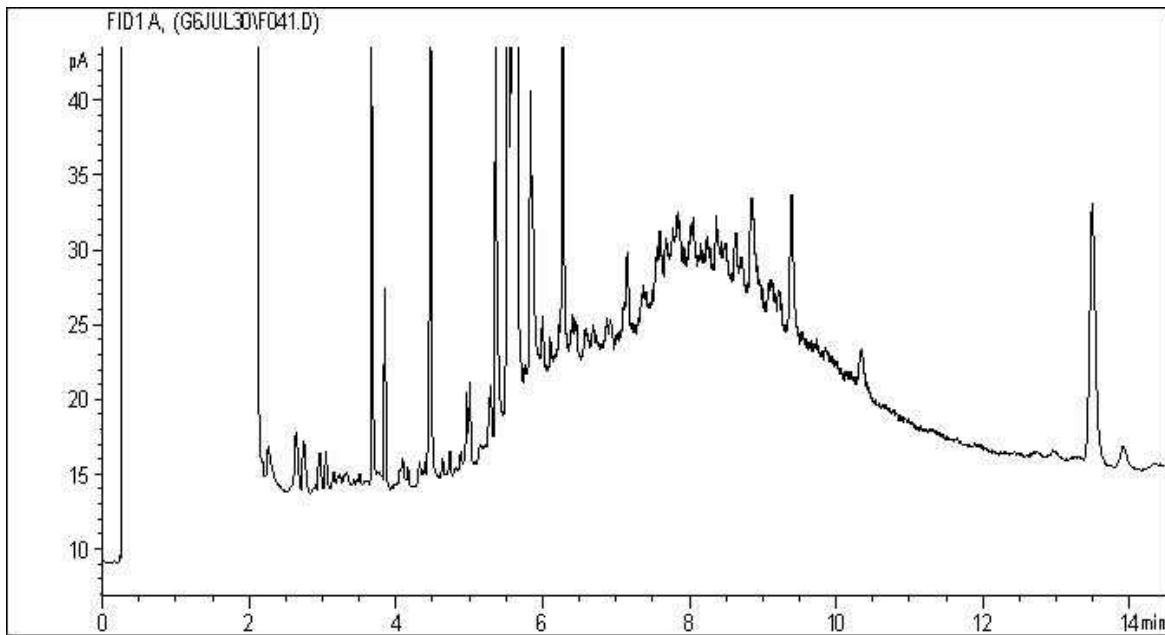
Carbon Range Distribution - Reference Chromatogram



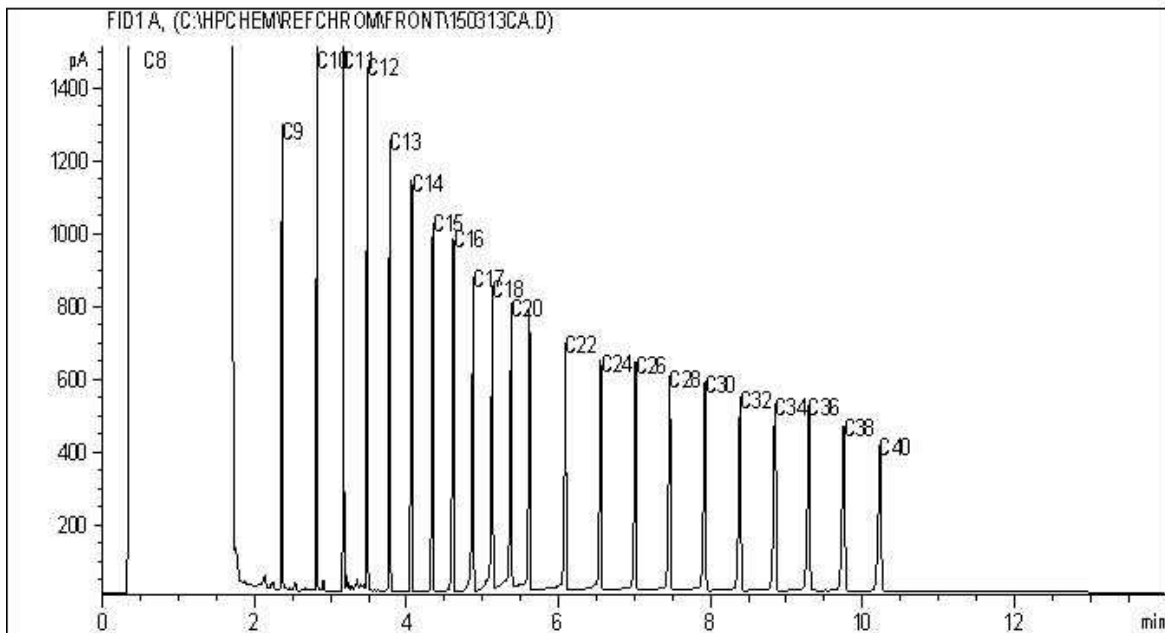
TYPICAL PRODUCT CARBON NUMBER RANGES

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



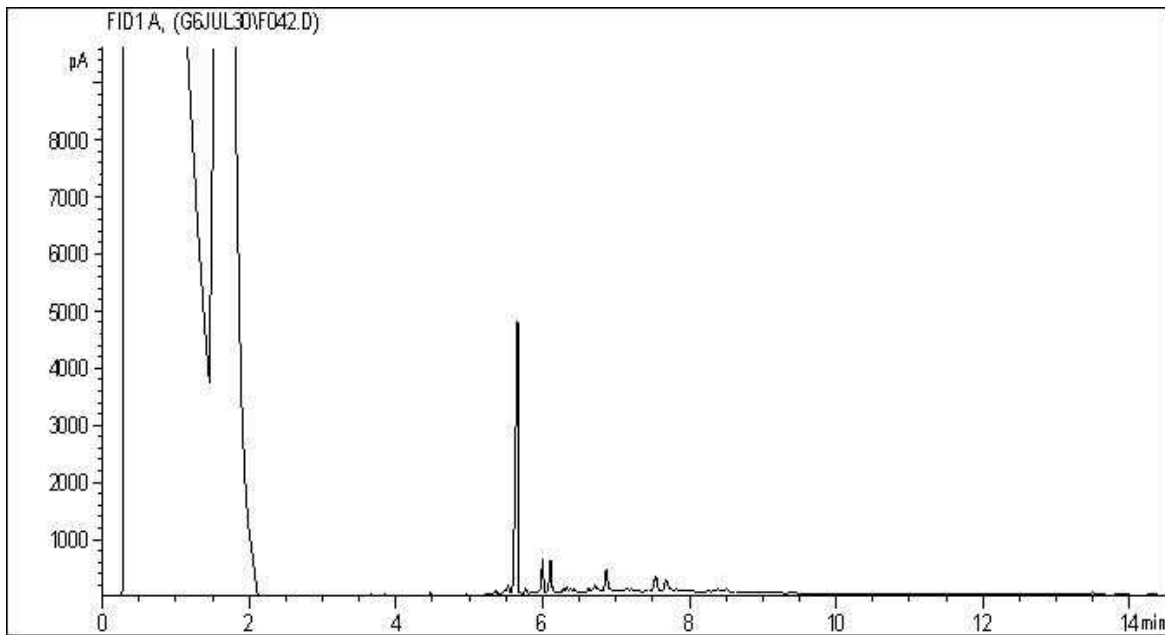
Carbon Range Distribution - Reference Chromatogram



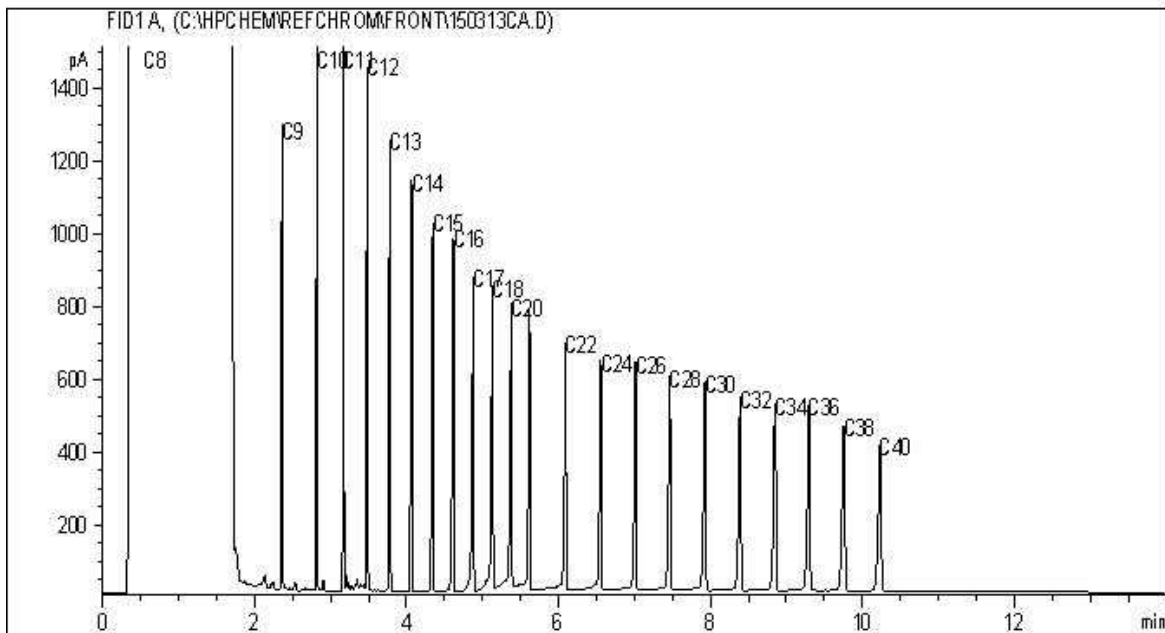
TYPICAL PRODUCT CARBON NUMBER RANGES

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



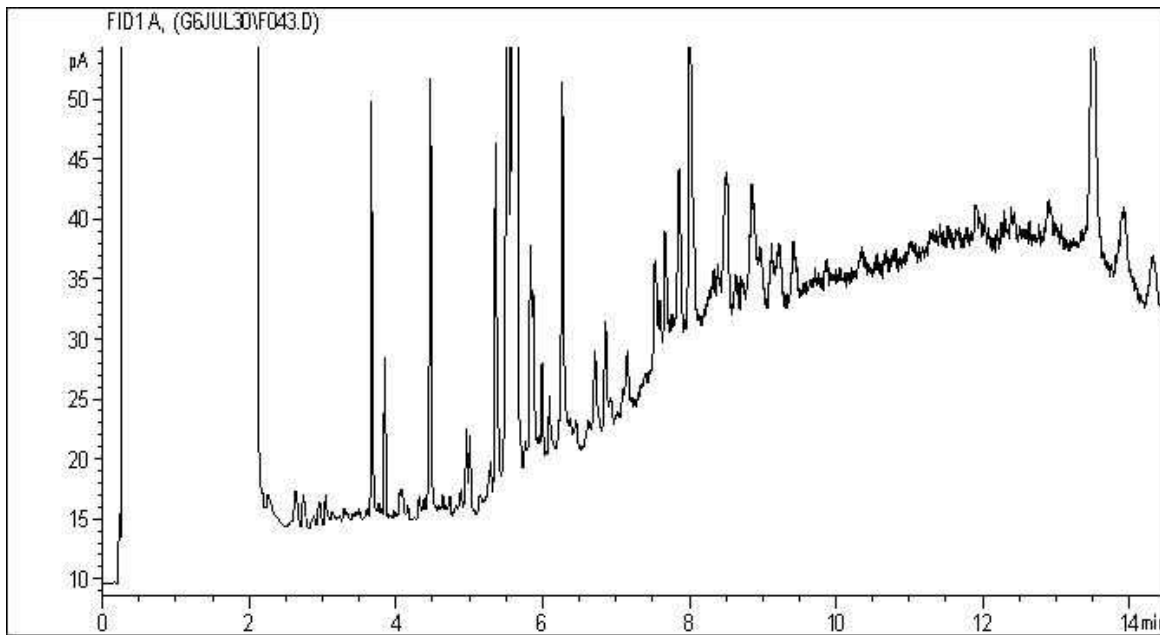
Carbon Range Distribution - Reference Chromatogram



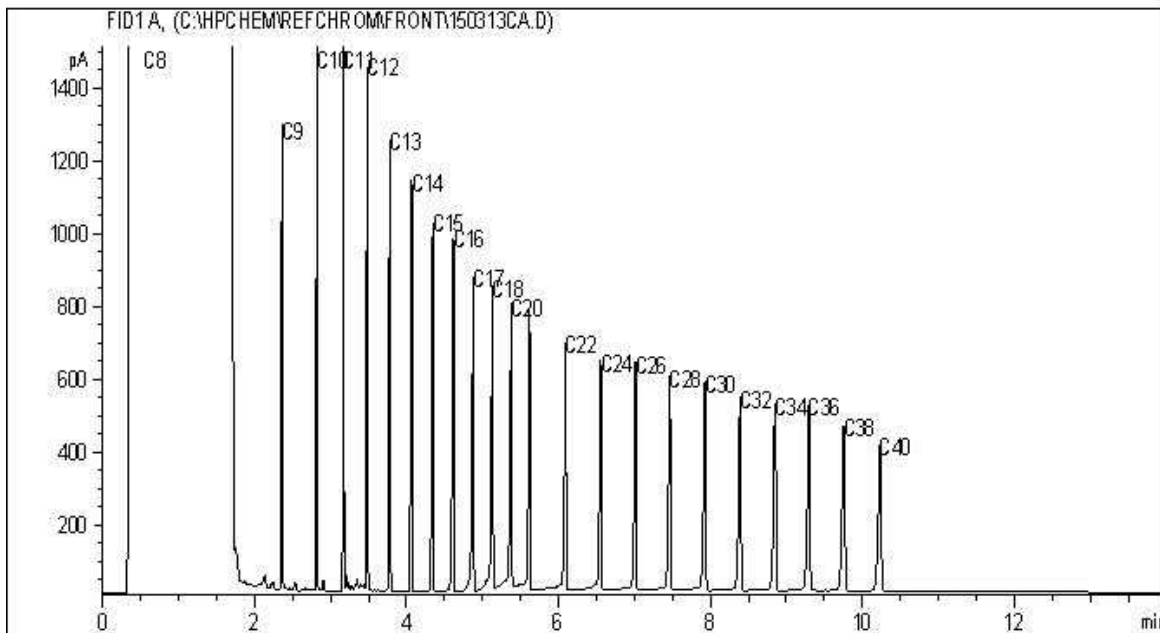
TYPICAL PRODUCT CARBON NUMBER RANGES

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your P.O. #: ES10SL01
 Your Project #: 504542 COL 15
 Site: COL 15, CFB ESQUIMALT
 Your C.O.C. #: V002218, V002219, V002220,
 V002221, V002222, V002223, V002224, V002225

Attention: Scott Irwin
 SNC LAVALIN ENVIRONMENT INC.
 202 - 3440 DOUGLAS STREET
 VICTORIA, BC
 Canada V8Z 3L5

Report Date: 2011/01/07

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0C2249

Received: 2010/12/16, 07:50

Sample Matrix: Soil
 # Samples Received: 27

| Analyses | Quantity | Date | | Laboratory Method | Analytical Method |
|--|----------|------------|------------|--------------------|----------------------|
| | | Extracted | Analyzed | | |
| BTEX/MTBE Soil LH, VH, F1 SIM/MS | 4 | 2010/12/17 | 2010/12/19 | BBY8-SOP-00010 | EPA SW846 8260C |
| BTEX/MTBE Soil LH, VH, F1 SIM/MS | 2 | 2010/12/18 | 2010/12/19 | BBY8-SOP-00010 | EPA SW846 8260C |
| Chloride (soluble) | 11 | 2010/12/18 | 2010/12/22 | BBY6SOP-00030 | Carter, SSMA 18.2.2 |
| Conductivity (Soluble) | 11 | 2010/12/18 | 2010/12/20 | BBY6SOP-00029 | Based Carter 18.3.1 |
| Volatile F1-BTEX | 6 | N/A | 2010/12/20 | | |
| Volatile F1-BTEX | 4 | N/A | 2010/12/21 | | |
| CCME Hydrocarbons (F2-F4 in soil) | 5 | 2010/12/17 | 2010/12/21 | BBY8SOP-00030 | CCME Soil Tier 1 |
| CCME Hydrocarbons (F2-F4 in soil) | 4 | 2010/12/18 | 2010/12/21 | BBY8SOP-00030 | CCME Soil Tier 1 |
| Elements by ICPMS (total) | 26 | 2010/12/20 | 2010/12/21 | BBY7SOP-00004 | Based on EPA 200.8 |
| Particulate Mesh 200 | 3 | N/A | 2011/01/07 | BBY6SOP-00039 | Carter SSMA 47.4 |
| Moisture | 8 | N/A | 2010/12/18 | BBY8SOP-00017 | Ont MOE -E 3139 |
| Moisture | 4 | N/A | 2010/12/19 | BBY8SOP-00017 | Ont MOE -E 3139 |
| PAH in Soil by GC/MS Lowlevel (Extended) | 6 | 2010/12/17 | 2010/12/20 | BRN SOP-00332 R5.0 | Based on EPA 8270D |
| PAH in Soil by GC/MS Lowlevel (Extended) | 1 | 2010/12/18 | 2010/12/20 | BRN SOP-00332 R5.0 | Based on EPA 8270D |
| PAH in Soil by GC/MS Lowlevel (Extended) | 1 | 2010/12/18 | 2010/12/23 | BRN SOP-00332 R5.0 | Based on EPA 8270D |
| PAH in Soil by GC/MS Lowlevel (Extended) | 1 | 2010/12/22 | 2010/12/24 | BRN SOP-00332 R5.0 | Based on EPA 8270D |
| Total LMW, HMW, Total PAH Calc | 7 | N/A | 2010/12/20 | | PAHTOT-S |
| Total LMW, HMW, Total PAH Calc | 2 | N/A | 2010/12/24 | | PAHTOT-S |
| pH (2:1 DI Water Extract) | 26 | 2010/12/20 | 2010/12/20 | BBY6SOP-00028 | Carter, SSMA 16.2 |
| CCME F1 C6-C10 in Soil by GC/FID | 2 | 2010/12/17 | 2010/12/19 | BBY8SOP-00011 | Based on EPA SW8260B |
| CCME F1 C6-C10 in Soil by GC/FID | 2 | 2010/12/18 | 2010/12/21 | BBY8SOP-00011 | Based on EPA SW8260B |
| Sodium Adsorption Ratio SP | 11 | N/A | 2010/12/21 | | |
| Saturated Paste | 11 | 2010/12/18 | 2010/12/19 | BBY6SOP-00030 | Carter SSMA 18.2.2 |
| Soluble Ions Na, Cl | 11 | N/A | 2010/12/23 | | |
| Sulphate (soluble) (soil) | 11 | 2010/12/18 | 2010/12/22 | BBY6SOP-00017 | USEPA Method 375.4 |
| Soluble Cations (Ca,K,Mg,Na,S) | 11 | N/A | 2010/12/21 | BBY6SOP-00030 | Carter, SM 18.2.2 |
| VOCs in Soil by HS GC/MS | 2 | 2010/12/17 | 2010/12/19 | BBY8-SOP-0009/R16 | Based on EPA 8260B |
| VOCs in Soil by HS GC/MS | 2 | 2010/12/18 | 2010/12/21 | BBY8-SOP-0009/R16 | Based on EPA 8260B |
| PCB Soil Subcontract ☺ | 4 | 2010/12/24 | 2010/12/24 | | |

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Ontario (From Burnaby)

Your P.O. #: ES10SL01
Your Project #: 504542 COL 15
Site: COL 15, CFB ESQUIMALT
Your C.O.C. #: V002218, V002219, V002220,
V002221, V002222, V002223, V002224, V002225

Attention: Scott Irwin
SNC LAVALIN ENVIRONMENT INC.
202 - 3440 DOUGLAS STREET
VICTORIA, BC
Canada V8Z 3L5

Report Date: 2011/01/07

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

LEE CARD, Burnaby Customer Service
Email: LCard@maxxam.ca
Phone# (604) 638-5017

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B0C2249
Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
Client Project #: 504542 COL 15
Site Reference: COL 15, CFB ESQUIMALT
Your P.O. #: ES10SL01
Sampler Initials: SH

RESULTS OF CHEMICAL ANALYSES OF SOIL

| | | | | | | | | | |
|---------------|--------------|------------------------|------------|------------------------|------------|------------------------|------------------------|------------|-----------------|
| Maxxam ID | | Z08627 | | Z08630 | | Z08649 | Z08650 | | |
| Sampling Date | | 2010/12/14 08:50 | | 2010/12/14 09:00 | | 2010/12/14 10:55 | 2010/12/14 10:55 | | |
| COC Number | | V002218 | | V002218 | | V002219 | V002219 | | |
| | Units | TP10-1-1-101214 | RDL | TP10-1-4-101214 | RDL | TP10-8-1-101214 | TP10-8-2-101214 | RDL | QC Batch |

| | | | | | | | | | |
|------------------------------|----------|-----|-----|------|-----|------|----------|------|---------|
| Parameter | | | | | | | | | |
| Subcontract Parameter | N/A | | | | | | ATTACHED | N/A | 4531015 |
| ANIONS | | | | | | | | | |
| Soluble Sulphate (SO4) | mg/L | 150 | 10 | 570 | 10 | 1900 | 1300 | 10 | 4526993 |
| Soluble Chloride (Cl) | mg/L | 24 | 5 | 2000 | 50 | 48 | 24 | 5 | 4526992 |
| Calculated Parameters | | | | | | | | | |
| Soluble Chloride (Cl) | mg/kg | 14 | 5 | 1410 | 5 | 23 | 16 | 5 | 4515897 |
| Soluble Sodium (Na) | mg/kg | 57 | 5 | 801 | 5 | 281 | 263 | 5 | 4515897 |
| Soluble Calcium (Ca) | mg/kg | 25 | 5 | 358 | 5 | 213 | 185 | 5 | 4515897 |
| Soluble Magnesium (Mg) | mg/kg | 6 | 5 | 80 | 5 | 27 | 22 | 5 | 4515897 |
| Soluble Potassium (K) | mg/kg | <20 | 20 | <20 | 20 | <20 | <20 | 20 | 4515897 |
| Soluble Sulphur (S) | mg/kg | <30 | 30 | 149 | 30 | 384 | 326 | 30 | 4515897 |
| Soluble Sulphate (SO4) | mg/kg | 84 | 10 | 400 | 10 | 913 | 854 | 10 | 4515897 |
| Physical Properties | | | | | | | | | |
| Soluble (2:1) pH | pH Units | | | | | 8.42 | | 0.01 | 4518257 |
| Soluble Parameters | | | | | | | | | |
| Soluble Conductivity | uS/cm | 637 | 1 | 8410 | 1 | 4020 | 2770 | 1 | 4516890 |
| Wet Soluble Calcium (Ca) | mg/L | 45 | 5 | 508 | 5 | 441 | 272 | 5 | 4519061 |
| Saturation % | % | 56 | 1 | 70 | 1 | 48 | 68 | 1 | 4516887 |
| Wet Soluble Magnesium (Mg) | mg/L | 11 | 5 | 114 | 5 | 55 | 32 | 5 | 4519061 |
| Wet Soluble Potassium (K) | mg/L | <20 | 20 | 23 | 20 | 32 | 28 | 20 | 4519061 |
| Wet Soluble Sodium (Na) | mg/L | 102 | 5 | 1140 | 5 | 580 | 387 | 5 | 4519061 |
| Wet Soluble Sulphur (S) | mg/L | 51 | 30 | 211 | 30 | 795 | 480 | 30 | 4519061 |
| Sodium Adsorption Ratio | N/A | 3.6 | 0.1 | 11.9 | 0.1 | 6.9 | 5.9 | 0.1 | 4515896 |
| Physical Properties | | | | | | | | | |
| 200 mesh (>.075 mm) | % | | | 69.3 | 0.1 | | | | 4547791 |
| 200 mesh (<.075 mm) | % | | | 30.7 | 0.1 | | | | 4547791 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
Client Project #: 504542 COL 15
Site Reference: COL 15, CFB ESQUIMALT
Your P.O. #: ES10SL01
Sampler Initials: SH

RESULTS OF CHEMICAL ANALYSES OF SOIL

| Maxxam ID | | Z08658 | Z08695 | Z08701 | Z08711 | | |
|----------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|------------|-----------------|
| Sampling Date | | 2010/12/14 11:35 | 2010/12/14 14:05 | 2010/12/15 08:35 | 2010/12/15 09:30 | | |
| COC Number | | V002220 | V002221 | V002222 | V002222 | | |
| | Units | TP10-10-2-101214 | TP10-21-1-101214 | TP10-23-2-101215 | TP10-25-2-101215 | RDL | QC Batch |
| Parameter | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | ATTACHED | | | N/A | 4531015 |
| ANIONS | | | | | | | |
| Soluble Sulphate (SO4) | mg/L | 160 | 21 | 220 | 47 | 10 | 4526993 |
| Soluble Chloride (Cl) | mg/L | 25 | 13 | 15 | 16 | 5 | 4526992 |
| Calculated Parameters | | | | | | | |
| Soluble Chloride (Cl) | mg/kg | 17 | 8 | 10 | 11 | 5 | 4515897 |
| Soluble Sodium (Na) | mg/kg | 90 | 75 | 47 | 20 | 5 | 4515897 |
| Soluble Calcium (Ca) | mg/kg | 14 | 10 | 22 | 27 | 5 | 4515897 |
| Soluble Magnesium (Mg) | mg/kg | 7 | 10 | 13 | 6 | 5 | 4515897 |
| Soluble Potassium (K) | mg/kg | <20 | <20 | <20 | <20 | 20 | 4515897 |
| Soluble Sulphur (S) | mg/kg | 34 | <30 | 53 | <30 | 30 | 4515897 |
| Soluble Sulphate (SO4) | mg/kg | 109 | 13 | 153 | 32 | 10 | 4515897 |
| Soluble Parameters | | | | | | | |
| Soluble Conductivity | uS/cm | 625 | 467 | 624 | 301 | 1 | 4516890 |
| Wet Soluble Calcium (Ca) | mg/L | 21 | 16 | 33 | 39 | 5 | 4519061 |
| Saturation % | % | 68 | 62 | 68 | 68 | 1 | 4516887 |
| Wet Soluble Magnesium (Mg) | mg/L | 10 | 15 | 19 | 9 | 5 | 4519061 |
| Wet Soluble Potassium (K) | mg/L | <20 | <20 | 25 | <20 | 20 | 4519061 |
| Wet Soluble Sodium (Na) | mg/L | 131 | 121 | 69 | 29 | 5 | 4519061 |
| Wet Soluble Sulphur (S) | mg/L | 50 | <30 | 77 | <30 | 30 | 4519061 |
| Sodium Adsorption Ratio | N/A | 5.9 | 5.2 | 2.4 | 1.1 | 0.1 | 4515896 |
| RDL = Reportable Detection Limit | | | | | | | |

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

RESULTS OF CHEMICAL ANALYSES OF SOIL

| Maxxam ID | | Z08724 | Z08725 | Z08742 | Z08762 | | |
|----------------------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|------------|-----------------|
| Sampling Date | | 2010/12/15 10:10 | 2010/12/15 10:10 | 2010/12/15 11:05 | 2010/12/15 12:05 | | |
| COC Number | | V002223 | V002223 | V002224 | V002225 | | |
| | Units | TP10-27-2-101215 | TP10-27-3-101215 | TP10-30-2-101215 | TP10-33-2-101215 | RDL | QC Batch |
| Parameter | | | | | | | |
| Subcontract Parameter | N/A | | | | ATTACHED | N/A | 4531015 |
| ANIONS | | | | | | | |
| Soluble Sulphate (SO4) | mg/L | | 61 | 110 | 51 | 10 | 4526993 |
| Soluble Chloride (Cl) | mg/L | | 12 | 69 | 19 | 5 | 4526992 |
| Calculated Parameters | | | | | | | |
| Soluble Chloride (Cl) | mg/kg | | 8 | 41 | 13 | 5 | 4515897 |
| Soluble Sodium (Na) | mg/kg | | 19 | 52 | 17 | 5 | 4515897 |
| Soluble Calcium (Ca) | mg/kg | | 43 | 12 | 54 | 5 | 4515897 |
| Soluble Magnesium (Mg) | mg/kg | | 5 | <5 | <5 | 5 | 4515897 |
| Soluble Potassium (K) | mg/kg | | <20 | <20 | <20 | 20 | 4515897 |
| Soluble Sulphur (S) | mg/kg | | <30 | <30 | <30 | 30 | 4515897 |
| Soluble Sulphate (SO4) | mg/kg | | 39 | 64 | 36 | 10 | 4515897 |
| Soluble Parameters | | | | | | | |
| Soluble Conductivity | uS/cm | | 326 | 486 | 289 | 1 | 4516890 |
| Wet Soluble Calcium (Ca) | mg/L | | 68 | 20 | 77 | 5 | 4519061 |
| Saturation % | % | | 64 | 59 | 70 | 1 | 4516887 |
| Wet Soluble Magnesium (Mg) | mg/L | | 8 | 6 | <5 | 5 | 4519061 |
| Wet Soluble Potassium (K) | mg/L | | <20 | <20 | <20 | 20 | 4519061 |
| Wet Soluble Sodium (Na) | mg/L | | 29 | 90 | 25 | 5 | 4519061 |
| Wet Soluble Sulphur (S) | mg/L | | <30 | 37 | <30 | 30 | 4519061 |
| Sodium Adsorption Ratio | N/A | | 0.9 | 4.5 | 0.8 | 0.1 | 4515896 |
| Physical Properties | | | | | | | |
| 200 mesh (>.075 mm) | % | 65.7 | | | | 0.1 | 4547791 |
| 200 mesh (<.075 mm) | % | 34.3 | | | | 0.1 | 4547791 |
| RDL = Reportable Detection Limit | | | | | | | |

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

RESULTS OF CHEMICAL ANALYSES OF SOIL

| | | | | |
|---------------|--------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08763 | | |
| Sampling Date | | 2010/12/15 12:10 | | |
| COC Number | | V002225 | | |
| | Units | TP10-33-3-101215 | RDL | QC Batch |

| | | | | |
|----------------------------------|---|------|-----|---------|
| Physical Properties | | | | |
| 200 mesh (>.075 mm) | % | 68.6 | 0.1 | 4547791 |
| 200 mesh (<.075 mm) | % | 31.4 | 0.1 | 4547791 |
| RDL = Reportable Detection Limit | | | | |

Maxxam Job #: B0C2249
Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
Client Project #: 504542 COL 15
Site Reference: COL 15, CFB ESQUIMALT
Your P.O. #: ES10SL01
Sampler Initials: SH

PETROLEUM HYDROCARBONS (CCME)

| | | | | | | | |
|---------------|--------------|------------------------|------------------------|-------------------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08649 | Z08650 | Z08658 | Z08695 | | |
| Sampling Date | | 2010/12/14 10:55 | 2010/12/14 10:55 | 2010/12/14 11:35 | 2010/12/14 14:05 | | |
| COC Number | | V002219 | V002219 | V002220 | V002221 | | |
| | Units | TP10-8-1-101214 | TP10-8-2-101214 | TP10-10-2-101214 | TP10-21-1-101214 | RDL | QC Batch |

| | | | | | | | |
|-------------------------------|-------|-----|-----|-----|-----|-----|---------|
| Ext. Pet. Hydrocarbon | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | mg/kg | <10 | <10 | <10 | <10 | 10 | 4519884 |
| F3 (C16-C34 Hydrocarbons) | mg/kg | 91 | 86 | 44 | <10 | 10 | 4519884 |
| F4 (C34-C50 Hydrocarbons) | mg/kg | 160 | 160 | 23 | 21 | 10 | 4519884 |
| Reached Baseline at C50 | mg/kg | No | No | Yes | Yes | N/A | 4519884 |
| Surrogate Recovery (%) | | | | | | | |
| O-TERPHENYL (sur.) | % | 94 | 88 | 88 | 106 | | 4519884 |

RDL = Reportable Detection Limit

| | | | | | | | |
|---------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08701 | Z08711 | Z08725 | Z08742 | | |
| Sampling Date | | 2010/12/15 08:35 | 2010/12/15 09:30 | 2010/12/15 10:10 | 2010/12/15 11:05 | | |
| COC Number | | V002222 | V002222 | V002223 | V002224 | | |
| | Units | TP10-23-2-101215 | TP10-25-2-101215 | TP10-27-3-101215 | TP10-30-2-101215 | RDL | QC Batch |

| | | | | | | | |
|-------------------------------|-------|-----|-----|-----|-----|-----|---------|
| Ext. Pet. Hydrocarbon | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | mg/kg | <10 | <10 | <10 | 13 | 10 | 4519884 |
| F3 (C16-C34 Hydrocarbons) | mg/kg | 21 | 29 | 67 | 330 | 10 | 4519884 |
| F4 (C34-C50 Hydrocarbons) | mg/kg | <10 | <10 | 24 | 200 | 10 | 4519884 |
| Reached Baseline at C50 | mg/kg | Yes | Yes | Yes | No | N/A | 4519884 |
| Surrogate Recovery (%) | | | | | | | |
| O-TERPHENYL (sur.) | % | 87 | 92 | 95 | 89 | | 4519884 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

PETROLEUM HYDROCARBONS (CCME)

| | | | | |
|---------------|--------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08762 | | |
| Sampling Date | | 2010/12/15 12:05 | | |
| COC Number | | V002225 | | |
| | Units | TP10-33-2-101215 | RDL | QC Batch |

| Ext. Pet. Hydrocarbon | | | | |
|-------------------------------|-------|-----|-----|---------|
| F2 (C10-C16 Hydrocarbons) | mg/kg | <10 | 10 | 4519884 |
| F3 (C16-C34 Hydrocarbons) | mg/kg | 92 | 10 | 4519884 |
| F4 (C34-C50 Hydrocarbons) | mg/kg | 53 | 10 | 4519884 |
| Reached Baseline at C50 | mg/kg | Yes | N/A | 4519884 |
| Surrogate Recovery (%) | | | | |
| O-TERPHENYL (sur.) | % | 93 | | 4519884 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

PHYSICAL TESTING (SOIL)

| | | | | | | | | |
|---------------|--------------|------------------------|------------------------|------------------------|-----------------|------------------------|------------|-----------------|
| Maxxam ID | | Z08627 | Z08630 | Z08649 | | Z08650 | | |
| Sampling Date | | 2010/12/14 08:50 | 2010/12/14 09:00 | 2010/12/14 10:55 | | 2010/12/14 10:55 | | |
| COC Number | | V002218 | V002218 | V002219 | | V002219 | | |
| | Units | TP10-1-1-101214 | TP10-1-4-101214 | TP10-8-1-101214 | QC Batch | TP10-8-2-101214 | RDL | QC Batch |

| | | | | | | | | |
|----------------------------------|---|----|----|----|---------|-----|-----|---------|
| Physical Properties | | | | | | | | |
| Moisture | % | 17 | 13 | 14 | 4516346 | 9.7 | 0.3 | 4516482 |
| RDL = Reportable Detection Limit | | | | | | | | |

| | | | | | | | | |
|---------------|--------------|-------------------------|-------------------------|-----------------|-------------------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08658 | Z08695 | | Z08701 | Z08711 | | |
| Sampling Date | | 2010/12/14 11:35 | 2010/12/14 14:05 | | 2010/12/15 08:35 | 2010/12/15 09:30 | | |
| COC Number | | V002220 | V002221 | | V002222 | V002222 | | |
| | Units | TP10-10-2-101214 | TP10-21-1-101214 | QC Batch | TP10-23-2-101215 | TP10-25-2-101215 | RDL | QC Batch |

| | | | | | | | | |
|----------------------------------|---|----|----|---------|----|-----|-----|---------|
| Physical Properties | | | | | | | | |
| Moisture | % | 17 | 20 | 4516482 | 20 | 9.4 | 0.3 | 4516346 |
| RDL = Reportable Detection Limit | | | | | | | | |

| | | | | | | | | |
|---------------|--------------|-------------------------|-------------------------|-------------------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08724 | Z08725 | Z08742 | | Z08762 | | |
| Sampling Date | | 2010/12/15 10:10 | 2010/12/15 10:10 | 2010/12/15 11:05 | | 2010/12/15 12:05 | | |
| COC Number | | V002223 | V002223 | V002224 | | V002225 | | |
| | Units | TP10-27-2-101215 | TP10-27-3-101215 | TP10-30-2-101215 | QC Batch | TP10-33-2-101215 | RDL | QC Batch |

| | | | | | | | | |
|----------------------------------|---|----|----|-----|---------|----|-----|---------|
| Physical Properties | | | | | | | | |
| Moisture | % | 14 | 15 | 7.9 | 4516346 | 13 | 0.3 | 4516482 |
| RDL = Reportable Detection Limit | | | | | | | | |

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME BTEX/F1 BY HS IN SOIL (SOIL)

| | | | | | | | |
|---------------|--------------|------------------------|-------------------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08650 | Z08658 | | Z08701 | | |
| Sampling Date | | 2010/12/14 10:55 | 2010/12/14 11:35 | | 2010/12/15 08:35 | | |
| COC Number | | V002219 | V002220 | | V002222 | | |
| | Units | TP10-8-2-101214 | TP10-10-2-101214 | QC Batch | TP10-23-2-101215 | RDL | QC Batch |

| Calculated Parameters | | | | | | | |
|-------------------------------|-------|--------|--------|---------|--------|-------|---------|
| F1 (C6-C10) - BTEX | mg/kg | <10 | <10 | 4512894 | <10 | 10 | 4512894 |
| Volatiles | | | | | | | |
| Methyl-tert-butylether (MTBE) | mg/kg | <0.1 | <0.1 | 4516981 | <0.1 | 0.1 | 4516582 |
| Benzene | mg/kg | <0.005 | <0.005 | 4516981 | <0.005 | 0.005 | 4516582 |
| Toluene | mg/kg | <0.02 | <0.02 | 4516981 | <0.02 | 0.02 | 4516582 |
| Ethylbenzene | mg/kg | <0.01 | <0.01 | 4516981 | <0.01 | 0.01 | 4516582 |
| m & p-Xylene | mg/kg | <0.04 | <0.04 | 4516981 | <0.04 | 0.04 | 4516582 |
| o-Xylene | mg/kg | <0.04 | <0.04 | 4516981 | <0.04 | 0.04 | 4516582 |
| Styrene | mg/kg | 0.08 | <0.03 | 4516981 | <0.03 | 0.03 | 4516582 |
| Xylenes (Total) | mg/kg | <0.04 | <0.04 | 4516981 | <0.04 | 0.04 | 4516582 |
| (C6-C10) | mg/kg | <10 | <10 | 4516981 | <10 | 10 | 4516582 |
| Surrogate Recovery (%) | | | | | | | |
| 4-BROMOFLUOROBENZENE (sur.) | % | 100 | 100 | 4516981 | 99 | | 4516582 |
| D10-ETHYLBENZENE (sur.) | % | 116 | 108 | 4516981 | 101 | | 4516582 |
| D4-1,2-DICHLOROETHANE (sur.) | % | 114 | 108 | 4516981 | 99 | | 4516582 |
| D8-TOLUENE (sur.) | % | 91 | 93 | 4516981 | 98 | | 4516582 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME BTEX/F1 BY HS IN SOIL (SOIL)

| | | | | | | |
|---------------|--------------|-------------------------|-------------------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08711 | Z08725 | Z08742 | | |
| Sampling Date | | 2010/12/15 09:30 | 2010/12/15 10:10 | 2010/12/15 11:05 | | |
| COC Number | | V002222 | V002223 | V002224 | | |
| | Units | TP10-25-2-101215 | TP10-27-3-101215 | TP10-30-2-101215 | RDL | QC Batch |

| Calculated Parameters | | | | | | |
|-------------------------------|-------|--------|--------|--------|-------|---------|
| F1 (C6-C10) - BTEX | mg/kg | <10 | <10 | <10 | 10 | 4512894 |
| Volatiles | | | | | | |
| Methyl-tert-butylether (MTBE) | mg/kg | <0.1 | <0.1 | <0.1 | 0.1 | 4516582 |
| Benzene | mg/kg | <0.005 | <0.005 | <0.005 | 0.005 | 4516582 |
| Toluene | mg/kg | <0.02 | <0.02 | <0.02 | 0.02 | 4516582 |
| Ethylbenzene | mg/kg | <0.01 | <0.01 | <0.01 | 0.01 | 4516582 |
| m & p-Xylene | mg/kg | <0.04 | <0.04 | <0.04 | 0.04 | 4516582 |
| o-Xylene | mg/kg | <0.04 | <0.04 | <0.04 | 0.04 | 4516582 |
| Styrene | mg/kg | <0.03 | <0.03 | <0.03 | 0.03 | 4516582 |
| Xylenes (Total) | mg/kg | <0.04 | <0.04 | <0.04 | 0.04 | 4516582 |
| (C6-C10) | mg/kg | <10 | <10 | <10 | 10 | 4516582 |
| Surrogate Recovery (%) | | | | | | |
| 4-BROMOFLUOROBENZENE (sur.) | % | 98 | 97 | 98 | | 4516582 |
| D10-ETHYLBENZENE (sur.) | % | 99 | 101 | 100 | | 4516582 |
| D4-1,2-DICHLOROETHANE (sur.) | % | 99 | 98 | 99 | | 4516582 |
| D8-TOLUENE (sur.) | % | 98 | 98 | 98 | | 4516582 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CSR/CCME METALS IN SOIL (SOIL)

| Maxxam ID | | Z08627 | Z08630 | Z08645 | Z08649 | | |
|---------------|--------------|------------------------|------------------------|------------------------|------------------------|------------|-----------------|
| Sampling Date | | 2010/12/14 08:50 | 2010/12/14 09:00 | 2010/12/14 10:20 | 2010/12/14 10:55 | | |
| COC Number | | V002218 | V002218 | V002219 | V002219 | | |
| | Units | TP10-1-1-101214 | TP10-1-4-101214 | TP10-6-1-101214 | TP10-8-1-101214 | RDL | QC Batch |

| Physical Properties | | | | | | | |
|------------------------------|----------|-------|-------|-------|-------|------|---------|
| Soluble (2:1) pH | pH Units | 8.76 | 7.49 | 8.76 | | 0.01 | 4518257 |
| Total Metals by ICPMS | | | | | | | |
| Total Aluminum (Al) | mg/kg | 17200 | 16300 | 17000 | 17200 | 100 | 4518254 |
| Total Antimony (Sb) | mg/kg | 2.0 | 0.2 | 1.2 | 1.9 | 0.1 | 4518254 |
| Total Arsenic (As) | mg/kg | 7.4 | 4.6 | 6.6 | 8.0 | 0.2 | 4518254 |
| Total Barium (Ba) | mg/kg | 54.1 | 42.0 | 51.4 | 51.6 | 0.1 | 4518254 |
| Total Beryllium (Be) | mg/kg | 0.3 | 0.3 | 0.2 | 0.3 | 0.1 | 4518254 |
| Total Bismuth (Bi) | mg/kg | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 4518254 |
| Total Cadmium (Cd) | mg/kg | 0.52 | 0.12 | 0.58 | 0.68 | 0.05 | 4518254 |
| Total Calcium (Ca) | mg/kg | 17700 | 7730 | 23600 | 16100 | 100 | 4518254 |
| Total Chromium (Cr) | mg/kg | 32 | 25 | 31 | 31 | 1 | 4518254 |
| Total Cobalt (Co) | mg/kg | 11.8 | 9.7 | 11.4 | 11.6 | 0.3 | 4518254 |
| Total Copper (Cu) | mg/kg | 53.3 | 33.0 | 50.0 | 58.1 | 0.5 | 4518254 |
| Total Iron (Fe) | mg/kg | 27000 | 22200 | 26400 | 27800 | 100 | 4518254 |
| Total Lead (Pb) | mg/kg | 24.4 | 6.2 | 55.5 | 31.5 | 0.1 | 4518254 |
| Total Magnesium (Mg) | mg/kg | 9590 | 7650 | 9050 | 9520 | 100 | 4518254 |
| Total Manganese (Mn) | mg/kg | 421 | 379 | 462 | 448 | 0.2 | 4518254 |
| Total Mercury (Hg) | mg/kg | 0.10 | <0.05 | 0.18 | 0.07 | 0.05 | 4518254 |
| Total Molybdenum (Mo) | mg/kg | 0.8 | 0.4 | 1.1 | 1.2 | 0.1 | 4518254 |
| Total Nickel (Ni) | mg/kg | 25.3 | 20.4 | 23.0 | 24.1 | 0.8 | 4518254 |
| Total Phosphorus (P) | mg/kg | 662 | 530 | 672 | 676 | 10 | 4518254 |
| Total Potassium (K) | mg/kg | 1080 | 603 | 1120 | 1010 | 100 | 4518254 |
| Total Selenium (Se) | mg/kg | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | 4518254 |
| Total Silver (Ag) | mg/kg | 0.07 | 0.05 | 0.07 | 0.09 | 0.05 | 4518254 |
| Total Sodium (Na) | mg/kg | 590 | 1010 | 706 | 786 | 100 | 4518254 |
| Total Strontium (Sr) | mg/kg | 91.5 | 28.3 | 134 | 81.8 | 0.1 | 4518254 |
| Total Thallium (Tl) | mg/kg | 0.11 | <0.05 | 0.14 | 0.09 | 0.05 | 4518254 |
| Total Tin (Sn) | mg/kg | 1.3 | 0.3 | 1.5 | 1.3 | 0.1 | 4518254 |
| Total Titanium (Ti) | mg/kg | 1010 | 898 | 1120 | 1080 | 1 | 4518254 |
| Total Vanadium (V) | mg/kg | 63 | 53 | 61 | 60 | 2 | 4518254 |
| Total Zinc (Zn) | mg/kg | 99 | 43 | 95 | 102 | 1 | 4518254 |
| Total Zirconium (Zr) | mg/kg | 3.0 | 2.2 | 3.2 | 3.0 | 0.5 | 4518254 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | | |
|---------------|--------------|------------------------|-------------------------|-------------------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08650 | Z08658 | Z08663 | | Z08666 | | |
| Sampling Date | | 2010/12/14 10:55 | 2010/12/14 11:35 | 2010/12/14 12:05 | | 2010/12/14 12:15 | | |
| COC Number | | V002219 | V002220 | V002220 | | V002220 | | |
| | Units | TP10-8-2-101214 | TP10-10-2-101214 | TP10-13-1-101214 | QC Batch | TP10-13-4-101214 | RDL | QC Batch |

| Physical Properties | | | | | | | | |
|------------------------------|----------|-------|-------|-------|---------|-------|------|---------|
| Soluble (2:1) pH | pH Units | 8.22 | 8.55 | 8.47 | 4518169 | 8.59 | 0.01 | 4518257 |
| Total Metals by ICPMS | | | | | | | | |
| Total Aluminum (Al) | mg/kg | 16000 | 19200 | 18300 | 4518158 | 15800 | 100 | 4518254 |
| Total Antimony (Sb) | mg/kg | 1.7 | 0.8 | 0.4 | 4518158 | 1.1 | 0.1 | 4518254 |
| Total Arsenic (As) | mg/kg | 6.3 | 5.7 | 6.4 | 4518158 | 6.2 | 0.2 | 4518254 |
| Total Barium (Ba) | mg/kg | 47.0 | 70.5 | 45.0 | 4518158 | 51.4 | 0.1 | 4518254 |
| Total Beryllium (Be) | mg/kg | 0.3 | 0.3 | 0.3 | 4518158 | 0.3 | 0.1 | 4518254 |
| Total Bismuth (Bi) | mg/kg | <0.1 | <0.1 | <0.1 | 4518158 | <0.1 | 0.1 | 4518254 |
| Total Cadmium (Cd) | mg/kg | 0.51 | 0.41 | 0.87 | 4518158 | 0.83 | 0.05 | 4518254 |
| Total Calcium (Ca) | mg/kg | 14300 | 10100 | 18700 | 4518158 | 9840 | 100 | 4518254 |
| Total Chromium (Cr) | mg/kg | 34 | 34 | 33 | 4518158 | 29 | 1 | 4518254 |
| Total Cobalt (Co) | mg/kg | 11.8 | 13.6 | 11.0 | 4518158 | 9.0 | 0.3 | 4518254 |
| Total Copper (Cu) | mg/kg | 60.8 | 57.8 | 41.0 | 4518158 | 49.0 | 0.5 | 4518254 |
| Total Iron (Fe) | mg/kg | 25900 | 29300 | 27700 | 4518158 | 24300 | 100 | 4518254 |
| Total Lead (Pb) | mg/kg | 28.6 | 26.2 | 10.8 | 4518158 | 33.5 | 0.1 | 4518254 |
| Total Magnesium (Mg) | mg/kg | 8340 | 10100 | 9460 | 4518158 | 7350 | 100 | 4518254 |
| Total Manganese (Mn) | mg/kg | 460 | 482 | 419 | 4518158 | 351 | 0.2 | 4518254 |
| Total Mercury (Hg) | mg/kg | 0.08 | 0.76 | 0.09 | 4518158 | 0.40 | 0.05 | 4518254 |
| Total Molybdenum (Mo) | mg/kg | 1.2 | 0.8 | 1.3 | 4518158 | 1.4 | 0.1 | 4518254 |
| Total Nickel (Ni) | mg/kg | 24.3 | 28.1 | 28.1 | 4518158 | 22.0 | 0.8 | 4518254 |
| Total Phosphorus (P) | mg/kg | 651 | 678 | 702 | 4518158 | 677 | 10 | 4518254 |
| Total Potassium (K) | mg/kg | 926 | 1210 | 1610 | 4518158 | 1200 | 100 | 4518254 |
| Total Selenium (Se) | mg/kg | <0.5 | <0.5 | <0.5 | 4518158 | <0.5 | 0.5 | 4518254 |
| Total Silver (Ag) | mg/kg | 0.07 | 0.08 | 0.09 | 4518158 | 0.09 | 0.05 | 4518254 |
| Total Sodium (Na) | mg/kg | 732 | 621 | 698 | 4518158 | 750 | 100 | 4518254 |
| Total Strontium (Sr) | mg/kg | 73.6 | 65.3 | 105 | 4518158 | 55.9 | 0.1 | 4518254 |
| Total Thallium (Tl) | mg/kg | 0.09 | 0.09 | 0.19 | 4518158 | 0.15 | 0.05 | 4518254 |
| Total Tin (Sn) | mg/kg | 1.1 | 2.0 | 1.1 | 4518158 | 2.7 | 0.1 | 4518254 |
| Total Titanium (Ti) | mg/kg | 980 | 949 | 1060 | 4518158 | 1010 | 1 | 4518254 |
| Total Vanadium (V) | mg/kg | 59 | 65 | 65 | 4518158 | 57 | 2 | 4518254 |
| Total Zinc (Zn) | mg/kg | 99 | 86 | 73 | 4518158 | 84 | 1 | 4518254 |
| Total Zirconium (Zr) | mg/kg | 2.9 | 3.0 | 4.6 | 4518158 | 4.5 | 0.5 | 4518254 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | | |
|---------------|--------------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08687 | | Z08688 | | Z08689 | | |
| Sampling Date | | 2010/12/14 12:40 | | 2010/12/14 12:45 | | 2010/12/14 13:00 | | |
| COC Number | | V002221 | | V002221 | | V002221 | | |
| | Units | TP10-16-1-101214 | QC Batch | TP10-16-2-101214 | QC Batch | TP10-17-1-101214 | RDL | QC Batch |

| Physical Properties | | | | | | | | |
|------------------------------|----------|-------|---------|-------|---------|-------|------|---------|
| Soluble (2:1) pH | pH Units | 8.76 | 4518169 | 7.81 | 4518257 | 8.74 | 0.01 | 4518169 |
| Total Metals by ICPMS | | | | | | | | |
| Total Aluminum (Al) | mg/kg | 21100 | 4518158 | 20800 | 4518254 | 16900 | 100 | 4518158 |
| Total Antimony (Sb) | mg/kg | 0.4 | 4518158 | 0.2 | 4518254 | 0.7 | 0.1 | 4518158 |
| Total Arsenic (As) | mg/kg | 5.3 | 4518158 | 4.5 | 4518254 | 6.0 | 0.2 | 4518158 |
| Total Barium (Ba) | mg/kg | 55.2 | 4518158 | 62.8 | 4518254 | 46.3 | 0.1 | 4518158 |
| Total Beryllium (Be) | mg/kg | 0.3 | 4518158 | 0.3 | 4518254 | 0.2 | 0.1 | 4518158 |
| Total Bismuth (Bi) | mg/kg | <0.1 | 4518158 | <0.1 | 4518254 | <0.1 | 0.1 | 4518158 |
| Total Cadmium (Cd) | mg/kg | 0.37 | 4518158 | 0.07 | 4518254 | 0.65 | 0.05 | 4518158 |
| Total Calcium (Ca) | mg/kg | 16500 | 4518158 | 7150 | 4518254 | 12600 | 100 | 4518158 |
| Total Chromium (Cr) | mg/kg | 38 | 4518158 | 41 | 4518254 | 32 | 1 | 4518158 |
| Total Cobalt (Co) | mg/kg | 14.0 | 4518158 | 15.6 | 4518254 | 11.1 | 0.3 | 4518158 |
| Total Copper (Cu) | mg/kg | 54.0 | 4518158 | 71.6 | 4518254 | 44.8 | 0.5 | 4518158 |
| Total Iron (Fe) | mg/kg | 32600 | 4518158 | 33400 | 4518254 | 26600 | 100 | 4518158 |
| Total Lead (Pb) | mg/kg | 13.6 | 4518158 | 3.6 | 4518254 | 19.3 | 0.1 | 4518158 |
| Total Magnesium (Mg) | mg/kg | 11800 | 4518158 | 8260 | 4518254 | 8540 | 100 | 4518158 |
| Total Manganese (Mn) | mg/kg | 571 | 4518158 | 631 | 4518254 | 411 | 0.2 | 4518158 |
| Total Mercury (Hg) | mg/kg | 0.08 | 4518158 | <0.05 | 4518254 | 0.09 | 0.05 | 4518158 |
| Total Molybdenum (Mo) | mg/kg | 0.6 | 4518158 | 0.4 | 4518254 | 0.9 | 0.1 | 4518158 |
| Total Nickel (Ni) | mg/kg | 33.6 | 4518158 | 28.7 | 4518254 | 25.4 | 0.8 | 4518158 |
| Total Phosphorus (P) | mg/kg | 676 | 4518158 | 520 | 4518254 | 637 | 10 | 4518158 |
| Total Potassium (K) | mg/kg | 1620 | 4518158 | 831 | 4518254 | 1270 | 100 | 4518158 |
| Total Selenium (Se) | mg/kg | <0.5 | 4518158 | <0.5 | 4518254 | <0.5 | 0.5 | 4518158 |
| Total Silver (Ag) | mg/kg | 0.08 | 4518158 | 0.06 | 4518254 | 0.08 | 0.05 | 4518158 |
| Total Sodium (Na) | mg/kg | 700 | 4518158 | 1240 | 4518254 | 534 | 100 | 4518158 |
| Total Strontium (Sr) | mg/kg | 101 | 4518158 | 39.8 | 4518254 | 65.7 | 0.1 | 4518158 |
| Total Thallium (Tl) | mg/kg | 0.09 | 4518158 | <0.05 | 4518254 | 0.17 | 0.05 | 4518158 |
| Total Tin (Sn) | mg/kg | 0.8 | 4518158 | 0.4 | 4518254 | 1.4 | 0.1 | 4518158 |
| Total Titanium (Ti) | mg/kg | 1150 | 4518158 | 1190 | 4518254 | 1000 | 1 | 4518158 |
| Total Vanadium (V) | mg/kg | 78 | 4518158 | 91 | 4518254 | 62 | 2 | 4518158 |
| Total Zinc (Zn) | mg/kg | 84 | 4518158 | 51 | 4518254 | 77 | 1 | 4518158 |
| Total Zirconium (Zr) | mg/kg | 4.3 | 4518158 | 3.8 | 4518254 | 3.4 | 0.5 | 4518158 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | |
|---------------|--------------|-------------------------|-------------------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08693 | Z08695 | | Z08701 | | |
| Sampling Date | | 2010/12/14 13:50 | 2010/12/14 14:05 | | 2010/12/15 08:35 | | |
| COC Number | | V002221 | V002221 | | V002222 | | |
| | Units | TP10-19-1-101214 | TP10-21-1-101214 | QC Batch | TP10-23-2-101215 | RDL | QC Batch |

| Physical Properties | | | | | | | |
|------------------------------|----------|-------|-------|---------|-------|------|---------|
| Soluble (2:1) pH | pH Units | 8.58 | 9.12 | 4518169 | 8.59 | 0.01 | 4518257 |
| Total Metals by ICPMS | | | | | | | |
| Total Aluminum (Al) | mg/kg | 19200 | 20200 | 4518158 | 22200 | 100 | 4518254 |
| Total Antimony (Sb) | mg/kg | 0.3 | 0.6 | 4518158 | 0.3 | 0.1 | 4518254 |
| Total Arsenic (As) | mg/kg | 5.9 | 6.3 | 4518158 | 5.8 | 0.2 | 4518254 |
| Total Barium (Ba) | mg/kg | 50.5 | 55.1 | 4518158 | 53.8 | 0.1 | 4518254 |
| Total Beryllium (Be) | mg/kg | 0.3 | 0.3 | 4518158 | 0.4 | 0.1 | 4518254 |
| Total Bismuth (Bi) | mg/kg | <0.1 | <0.1 | 4518158 | <0.1 | 0.1 | 4518254 |
| Total Cadmium (Cd) | mg/kg | 0.50 | 0.38 | 4518158 | 0.43 | 0.05 | 4518254 |
| Total Calcium (Ca) | mg/kg | 14100 | 10400 | 4518158 | 9440 | 100 | 4518254 |
| Total Chromium (Cr) | mg/kg | 35 | 37 | 4518158 | 40 | 1 | 4518254 |
| Total Cobalt (Co) | mg/kg | 12.9 | 12.9 | 4518158 | 14.7 | 0.3 | 4518254 |
| Total Copper (Cu) | mg/kg | 47.7 | 55.4 | 4518158 | 52.0 | 0.5 | 4518254 |
| Total Iron (Fe) | mg/kg | 30300 | 31400 | 4518158 | 34100 | 100 | 4518254 |
| Total Lead (Pb) | mg/kg | 7.5 | 22.1 | 4518158 | 6.7 | 0.1 | 4518254 |
| Total Magnesium (Mg) | mg/kg | 10400 | 10900 | 4518158 | 12400 | 100 | 4518254 |
| Total Manganese (Mn) | mg/kg | 509 | 481 | 4518158 | 581 | 0.2 | 4518254 |
| Total Mercury (Hg) | mg/kg | 0.07 | 0.28 | 4518158 | <0.05 | 0.05 | 4518254 |
| Total Molybdenum (Mo) | mg/kg | 0.8 | 0.6 | 4518158 | 0.9 | 0.1 | 4518254 |
| Total Nickel (Ni) | mg/kg | 32.0 | 32.3 | 4518158 | 36.2 | 0.8 | 4518254 |
| Total Phosphorus (P) | mg/kg | 661 | 640 | 4518158 | 692 | 10 | 4518254 |
| Total Potassium (K) | mg/kg | 1560 | 1820 | 4518158 | 1960 | 100 | 4518254 |
| Total Selenium (Se) | mg/kg | <0.5 | <0.5 | 4518158 | <0.5 | 0.5 | 4518254 |
| Total Silver (Ag) | mg/kg | 0.08 | 0.10 | 4518158 | 0.09 | 0.05 | 4518254 |
| Total Sodium (Na) | mg/kg | 585 | 940 | 4518158 | 642 | 100 | 4518254 |
| Total Strontium (Sr) | mg/kg | 85.0 | 58.6 | 4518158 | 47.1 | 0.1 | 4518254 |
| Total Thallium (Tl) | mg/kg | 0.14 | 0.11 | 4518158 | 0.11 | 0.05 | 4518254 |
| Total Tin (Sn) | mg/kg | 0.6 | 1.5 | 4518158 | 0.5 | 0.1 | 4518254 |
| Total Titanium (Ti) | mg/kg | 1010 | 1000 | 4518158 | 1090 | 1 | 4518254 |
| Total Vanadium (V) | mg/kg | 70 | 72 | 4518158 | 79 | 2 | 4518254 |
| Total Zinc (Zn) | mg/kg | 68 | 79 | 4518158 | 74 | 1 | 4518254 |
| Total Zirconium (Zr) | mg/kg | 4.5 | 4.4 | 4518158 | 4.5 | 0.5 | 4518254 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | | |
|---------------|--------------|-------------------------|-----------------|-------------------------|-------------------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08703 | | Z08711 | Z08718 | Z08724 | | |
| Sampling Date | | 2010/12/15 08:45 | | 2010/12/15 09:30 | 2010/12/15 09:40 | 2010/12/15 10:10 | | |
| COC Number | | V002222 | | V002222 | V002223 | V002223 | | |
| | Units | TP10-23-4-101215 | QC Batch | TP10-25-2-101215 | TP10-25-4-101215 | TP10-27-2-101215 | RDL | QC Batch |

| Physical Properties | | | | | | | | |
|------------------------------|----------|-------|---------|-------|-------|-------|------|---------|
| Soluble (2:1) pH | pH Units | 7.74 | 4518169 | 8.38 | 6.82 | 8.37 | 0.01 | 4518257 |
| Total Metals by ICPMS | | | | | | | | |
| Total Aluminum (Al) | mg/kg | 22100 | 4518158 | 16400 | 23300 | 12400 | 100 | 4518254 |
| Total Antimony (Sb) | mg/kg | 0.7 | 4518158 | 2.0 | 0.7 | 10.1 | 0.1 | 4518254 |
| Total Arsenic (As) | mg/kg | 4.5 | 4518158 | 7.5 | 3.8 | 17.5 | 0.2 | 4518254 |
| Total Barium (Ba) | mg/kg | 96.3 | 4518158 | 54.7 | 54.5 | 112 | 0.1 | 4518254 |
| Total Beryllium (Be) | mg/kg | 0.4 | 4518158 | 0.3 | 0.2 | 0.3 | 0.1 | 4518254 |
| Total Bismuth (Bi) | mg/kg | <0.1 | 4518158 | <0.1 | <0.1 | 0.1 | 0.1 | 4518254 |
| Total Cadmium (Cd) | mg/kg | 0.16 | 4518158 | 0.40 | 0.12 | 0.89 | 0.05 | 4518254 |
| Total Calcium (Ca) | mg/kg | 5100 | 4518158 | 10600 | 5700 | 55200 | 100 | 4518254 |
| Total Chromium (Cr) | mg/kg | 36 | 4518158 | 29 | 32 | 41 | 1 | 4518254 |
| Total Cobalt (Co) | mg/kg | 12.9 | 4518158 | 11.1 | 10.4 | 8.4 | 0.3 | 4518254 |
| Total Copper (Cu) | mg/kg | 41.3 | 4518158 | 61.8 | 47.4 | 109 | 0.5 | 4518254 |
| Total Iron (Fe) | mg/kg | 29300 | 4518158 | 26000 | 25900 | 21100 | 100 | 4518254 |
| Total Lead (Pb) | mg/kg | 14.3 | 4518158 | 38.1 | 49.0 | 209 | 0.1 | 4518254 |
| Total Magnesium (Mg) | mg/kg | 7130 | 4518158 | 8030 | 6440 | 8120 | 100 | 4518254 |
| Total Manganese (Mn) | mg/kg | 509 | 4518158 | 392 | 470 | 263 | 0.2 | 4518254 |
| Total Mercury (Hg) | mg/kg | 0.05 | 4518158 | 0.32 | <0.05 | 2.20 | 0.05 | 4518254 |
| Total Molybdenum (Mo) | mg/kg | 0.5 | 4518158 | 1.0 | 0.4 | 2.6 | 0.1 | 4518254 |
| Total Nickel (Ni) | mg/kg | 25.6 | 4518158 | 22.5 | 26.4 | 24.0 | 0.8 | 4518254 |
| Total Phosphorus (P) | mg/kg | 409 | 4518158 | 618 | 763 | 617 | 10 | 4518254 |
| Total Potassium (K) | mg/kg | 1080 | 4518158 | 847 | 477 | 755 | 100 | 4518254 |
| Total Selenium (Se) | mg/kg | <0.5 | 4518158 | <0.5 | <0.5 | 0.5 | 0.5 | 4518254 |
| Total Silver (Ag) | mg/kg | 0.06 | 4518158 | 0.07 | <0.05 | 0.14 | 0.05 | 4518254 |
| Total Sodium (Na) | mg/kg | 1150 | 4518158 | 360 | 552 | 708 | 100 | 4518254 |
| Total Strontium (Sr) | mg/kg | 33.3 | 4518158 | 62.7 | 31.0 | 311 | 0.1 | 4518254 |
| Total Thallium (Tl) | mg/kg | 0.06 | 4518158 | 0.09 | <0.05 | 0.23 | 0.05 | 4518254 |
| Total Tin (Sn) | mg/kg | 0.8 | 4518158 | 2.1 | 0.5 | 9.2 | 0.1 | 4518254 |
| Total Titanium (Ti) | mg/kg | 863 | 4518158 | 996 | 930 | 648 | 1 | 4518254 |
| Total Vanadium (V) | mg/kg | 73 | 4518158 | 61 | 68 | 45 | 2 | 4518254 |
| Total Zinc (Zn) | mg/kg | 64 | 4518158 | 92 | 42 | 302 | 1 | 4518254 |
| Total Zirconium (Zr) | mg/kg | 2.5 | 4518158 | 2.8 | 1.3 | 1.9 | 0.5 | 4518254 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | |
|---------------|--------------|-------------------------|-------------------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08725 | Z08727 | | Z08742 | | |
| Sampling Date | | 2010/12/15 10:10 | 2010/12/15 10:20 | | 2010/12/15 11:05 | | |
| COC Number | | V002223 | V002223 | | V002224 | | |
| | Units | TP10-27-3-101215 | TP10-27-5-101215 | QC Batch | TP10-30-2-101215 | RDL | QC Batch |

| Physical Properties | | | | | | | |
|------------------------------|----------|-------|-------|---------|-------|------|---------|
| Soluble (2:1) pH | pH Units | 8.35 | 8.51 | 4518257 | 8.03 | 0.01 | 4518169 |
| Total Metals by ICPMS | | | | | | | |
| Total Aluminum (Al) | mg/kg | 11500 | 12800 | 4518254 | 16200 | 100 | 4518158 |
| Total Antimony (Sb) | mg/kg | 19.9 | 5.2 | 4518254 | 5.1 | 0.1 | 4518158 |
| Total Arsenic (As) | mg/kg | 35.4 | 5.0 | 4518254 | 11.4 | 0.2 | 4518158 |
| Total Barium (Ba) | mg/kg | 101 | 74.6 | 4518254 | 53.2 | 0.1 | 4518158 |
| Total Beryllium (Be) | mg/kg | 0.2 | 0.2 | 4518254 | 0.3 | 0.1 | 4518158 |
| Total Bismuth (Bi) | mg/kg | 0.2 | <0.1 | 4518254 | <0.1 | 0.1 | 4518158 |
| Total Cadmium (Cd) | mg/kg | 1.01 | 0.31 | 4518254 | 0.22 | 0.05 | 4518158 |
| Total Calcium (Ca) | mg/kg | 77900 | 26000 | 4518254 | 7330 | 100 | 4518158 |
| Total Chromium (Cr) | mg/kg | 44 | 23 | 4518254 | 26 | 1 | 4518158 |
| Total Cobalt (Co) | mg/kg | 8.8 | 8.6 | 4518254 | 9.9 | 0.3 | 4518158 |
| Total Copper (Cu) | mg/kg | 118 | 60.4 | 4518254 | 66.4 | 0.5 | 4518158 |
| Total Iron (Fe) | mg/kg | 20700 | 21600 | 4518254 | 25000 | 100 | 4518158 |
| Total Lead (Pb) | mg/kg | 226 | 108 | 4518254 | 28.7 | 0.1 | 4518158 |
| Total Magnesium (Mg) | mg/kg | 8020 | 6730 | 4518254 | 7270 | 100 | 4518158 |
| Total Manganese (Mn) | mg/kg | 270 | 328 | 4518254 | 379 | 0.2 | 4518158 |
| Total Mercury (Hg) | mg/kg | 1.72 | 0.84 | 4518254 | 0.16 | 0.05 | 4518158 |
| Total Molybdenum (Mo) | mg/kg | 3.4 | 0.9 | 4518254 | 0.8 | 0.1 | 4518158 |
| Total Nickel (Ni) | mg/kg | 23.5 | 18.3 | 4518254 | 20.4 | 0.8 | 4518158 |
| Total Phosphorus (P) | mg/kg | 587 | 477 | 4518254 | 496 | 10 | 4518158 |
| Total Potassium (K) | mg/kg | 713 | 530 | 4518254 | 585 | 100 | 4518158 |
| Total Selenium (Se) | mg/kg | <0.5 | <0.5 | 4518254 | <0.5 | 0.5 | 4518158 |
| Total Silver (Ag) | mg/kg | 0.15 | 0.08 | 4518254 | 0.06 | 0.05 | 4518158 |
| Total Sodium (Na) | mg/kg | 928 | 513 | 4518254 | 398 | 100 | 4518158 |
| Total Strontium (Sr) | mg/kg | 454 | 138 | 4518254 | 37.8 | 0.1 | 4518158 |
| Total Thallium (Tl) | mg/kg | 0.21 | 0.07 | 4518254 | <0.05 | 0.05 | 4518158 |
| Total Tin (Sn) | mg/kg | 9.7 | 3.2 | 4518254 | 2.1 | 0.1 | 4518158 |
| Total Titanium (Ti) | mg/kg | 609 | 1010 | 4518254 | 1040 | 1 | 4518158 |
| Total Vanadium (V) | mg/kg | 43 | 54 | 4518254 | 62 | 2 | 4518158 |
| Total Zinc (Zn) | mg/kg | 382 | 134 | 4518254 | 98 | 1 | 4518158 |
| Total Zirconium (Zr) | mg/kg | 1.9 | 3.1 | 4518254 | 2.6 | 0.5 | 4518158 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CSR/CCME METALS IN SOIL (SOIL)

| | | | | | | | | |
|---------------|--------------|-------------------------|-------------------------|-------------------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08744 | Z08758 | Z08760 | | Z08762 | | |
| Sampling Date | | 2010/12/15 11:20 | 2010/12/15 11:45 | 2010/12/15 11:55 | | 2010/12/15 12:05 | | |
| COC Number | | V002224 | V002225 | V002225 | | V002225 | | |
| | Units | TP10-30-4-101215 | TP10-32-1-101215 | TP10-32-3-101215 | QC Batch | TP10-33-2-101215 | RDL | QC Batch |

| Physical Properties | | | | | | | | |
|------------------------------|----------|-------|-------|-------|---------|-------|------|---------|
| Soluble (2:1) pH | pH Units | 7.47 | 8.39 | 8.07 | 4518257 | 8.46 | 0.01 | 4518169 |
| Total Metals by ICPMS | | | | | | | | |
| Total Aluminum (Al) | mg/kg | 16700 | 17500 | 15500 | 4518254 | 6490 | 100 | 4518158 |
| Total Antimony (Sb) | mg/kg | 1.6 | 1.6 | 0.2 | 4518254 | 5.6 | 0.1 | 4518158 |
| Total Arsenic (As) | mg/kg | 5.3 | 9.5 | 4.3 | 4518254 | 13.1 | 0.2 | 4518158 |
| Total Barium (Ba) | mg/kg | 58.5 | 48.7 | 50.3 | 4518254 | 213 | 0.1 | 4518158 |
| Total Beryllium (Be) | mg/kg | 0.3 | 0.3 | 0.2 | 4518254 | 0.1 | 0.1 | 4518158 |
| Total Bismuth (Bi) | mg/kg | <0.1 | <0.1 | <0.1 | 4518254 | 0.1 | 0.1 | 4518158 |
| Total Cadmium (Cd) | mg/kg | 0.10 | 0.46 | 0.07 | 4518254 | 0.92 | 0.05 | 4518158 |
| Total Calcium (Ca) | mg/kg | 4850 | 28800 | 4430 | 4518254 | 89200 | 100 | 4518158 |
| Total Chromium (Cr) | mg/kg | 26 | 29 | 21 | 4518254 | 41 | 1 | 4518158 |
| Total Cobalt (Co) | mg/kg | 9.8 | 14.8 | 7.4 | 4518254 | 4.3 | 0.3 | 4518158 |
| Total Copper (Cu) | mg/kg | 38.8 | 65.4 | 28.6 | 4518254 | 78.9 | 0.5 | 4518158 |
| Total Iron (Fe) | mg/kg | 23500 | 31400 | 19600 | 4518254 | 12800 | 100 | 4518158 |
| Total Lead (Pb) | mg/kg | 10.3 | 53.9 | 7.5 | 4518254 | 260 | 0.1 | 4518158 |
| Total Magnesium (Mg) | mg/kg | 5960 | 10100 | 5590 | 4518254 | 3380 | 100 | 4518158 |
| Total Manganese (Mn) | mg/kg | 382 | 521 | 330 | 4518254 | 121 | 0.2 | 4518158 |
| Total Mercury (Hg) | mg/kg | <0.05 | 0.40 | <0.05 | 4518254 | 2.14 | 0.05 | 4518158 |
| Total Molybdenum (Mo) | mg/kg | 0.4 | 1.4 | 0.4 | 4518254 | 2.4 | 0.1 | 4518158 |
| Total Nickel (Ni) | mg/kg | 21.1 | 24.0 | 17.8 | 4518254 | 13.5 | 0.8 | 4518158 |
| Total Phosphorus (P) | mg/kg | 417 | 764 | 426 | 4518254 | 469 | 10 | 4518158 |
| Total Potassium (K) | mg/kg | 672 | 927 | 443 | 4518254 | 617 | 100 | 4518158 |
| Total Selenium (Se) | mg/kg | <0.5 | <0.5 | <0.5 | 4518254 | <0.5 | 0.5 | 4518158 |
| Total Silver (Ag) | mg/kg | 0.06 | 0.09 | <0.05 | 4518254 | 0.11 | 0.05 | 4518158 |
| Total Sodium (Na) | mg/kg | 877 | 479 | 430 | 4518254 | 1140 | 100 | 4518158 |
| Total Strontium (Sr) | mg/kg | 27.0 | 197 | 23.3 | 4518254 | 586 | 0.1 | 4518158 |
| Total Thallium (Tl) | mg/kg | 0.06 | 0.11 | 0.05 | 4518254 | 0.25 | 0.05 | 4518158 |
| Total Tin (Sn) | mg/kg | 0.7 | 1.9 | 0.3 | 4518254 | 24.8 | 0.1 | 4518158 |
| Total Titanium (Ti) | mg/kg | 1020 | 1210 | 831 | 4518254 | 461 | 1 | 4518158 |
| Total Vanadium (V) | mg/kg | 60 | 52 | 52 | 4518254 | 28 | 2 | 4518158 |
| Total Zinc (Zn) | mg/kg | 52 | 131 | 39 | 4518254 | 291 | 1 | 4518158 |
| Total Zirconium (Zr) | mg/kg | 2.7 | 2.9 | 2.6 | 4518254 | 1.9 | 0.5 | 4518158 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
Client Project #: 504542 COL 15
Site Reference: COL 15, CFB ESQUIMALT
Your P.O. #: ES10SL01
Sampler Initials: SH

CSR/CCME METALS IN SOIL (SOIL)

| | | | | |
|---------------|--------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08764 | | |
| Sampling Date | | 2010/12/15 12:10 | | |
| COC Number | | V002225 | | |
| | Units | TP10-33-4-101215 | RDL | QC Batch |

| Physical Properties | | | | |
|----------------------------------|----------|-------|------|---------|
| Soluble (2:1) pH | pH Units | 7.71 | 0.01 | 4518257 |
| Total Metals by ICPMS | | | | |
| Total Aluminum (Al) | mg/kg | 22500 | 100 | 4518254 |
| Total Antimony (Sb) | mg/kg | 1.1 | 0.1 | 4518254 |
| Total Arsenic (As) | mg/kg | 5.4 | 0.2 | 4518254 |
| Total Barium (Ba) | mg/kg | 77.4 | 0.1 | 4518254 |
| Total Beryllium (Be) | mg/kg | 0.3 | 0.1 | 4518254 |
| Total Bismuth (Bi) | mg/kg | <0.1 | 0.1 | 4518254 |
| Total Cadmium (Cd) | mg/kg | 0.17 | 0.05 | 4518254 |
| Total Calcium (Ca) | mg/kg | 6540 | 100 | 4518254 |
| Total Chromium (Cr) | mg/kg | 36 | 1 | 4518254 |
| Total Cobalt (Co) | mg/kg | 13.9 | 0.3 | 4518254 |
| Total Copper (Cu) | mg/kg | 61.9 | 0.5 | 4518254 |
| Total Iron (Fe) | mg/kg | 30700 | 100 | 4518254 |
| Total Lead (Pb) | mg/kg | 53.0 | 0.1 | 4518254 |
| Total Magnesium (Mg) | mg/kg | 8540 | 100 | 4518254 |
| Total Manganese (Mn) | mg/kg | 537 | 0.2 | 4518254 |
| Total Mercury (Hg) | mg/kg | 0.10 | 0.05 | 4518254 |
| Total Molybdenum (Mo) | mg/kg | 0.7 | 0.1 | 4518254 |
| Total Nickel (Ni) | mg/kg | 25.8 | 0.8 | 4518254 |
| Total Phosphorus (P) | mg/kg | 667 | 10 | 4518254 |
| Total Potassium (K) | mg/kg | 720 | 100 | 4518254 |
| Total Selenium (Se) | mg/kg | <0.5 | 0.5 | 4518254 |
| Total Silver (Ag) | mg/kg | 0.07 | 0.05 | 4518254 |
| Total Sodium (Na) | mg/kg | 686 | 100 | 4518254 |
| Total Strontium (Sr) | mg/kg | 40.6 | 0.1 | 4518254 |
| Total Thallium (Tl) | mg/kg | <0.05 | 0.05 | 4518254 |
| Total Tin (Sn) | mg/kg | 1.3 | 0.1 | 4518254 |
| Total Titanium (Ti) | mg/kg | 928 | 1 | 4518254 |
| Total Vanadium (V) | mg/kg | 70 | 2 | 4518254 |
| Total Zinc (Zn) | mg/kg | 122 | 1 | 4518254 |
| Total Zirconium (Zr) | mg/kg | 1.5 | 0.5 | 4518254 |
| RDL = Reportable Detection Limit | | | | |

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME PAH IN SOIL BY GC-MS (SOIL)

| | | | | | | | | |
|---------------|--------------|------------------------|------------------------|------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08627 | Z08649 | | | Z08658 | | |
| Sampling Date | | 2010/12/14 08:50 | 2010/12/14 10:55 | | | 2010/12/14 11:35 | | |
| COC Number | | V002218 | V002219 | | | V002220 | | |
| | Units | TP10-1-1-101214 | TP10-8-1-101214 | RDL | QC Batch | TP10-10-2-101214 | RDL | QC Batch |

| Polycyclic Aromatics | | | | | | | | |
|-------------------------------|-------|----------|----------|------|---------|-------|-------|---------|
| Naphthalene | mg/kg | 0.08 (1) | 0.11 (1) | 0.01 | 4516945 | 0.017 | 0.001 | 4523907 |
| 2-Methylnaphthalene | mg/kg | 0.04 (1) | 0.04 (1) | 0.01 | 4516945 | 0.022 | 0.001 | 4523907 |
| Acenaphthylene | mg/kg | 0.04 (1) | 0.07 (1) | 0.01 | 4516945 | 0.007 | 0.001 | 4523907 |
| Acenaphthene | mg/kg | 0.05 (1) | 0.03 (1) | 0.01 | 4516945 | 0.004 | 0.001 | 4523907 |
| Fluorene | mg/kg | 0.03 (1) | 0.04 (1) | 0.01 | 4516945 | 0.009 | 0.001 | 4523907 |
| Phenanthrene | mg/kg | 0.28 (1) | 0.23 (1) | 0.01 | 4516945 | 0.055 | 0.001 | 4523907 |
| Anthracene | mg/kg | 0.09 (1) | 0.17 (1) | 0.01 | 4516945 | 0.017 | 0.001 | 4523907 |
| Fluoranthene | mg/kg | 0.31 (1) | 0.37 (1) | 0.01 | 4516945 | 0.057 | 0.001 | 4523907 |
| Pyrene | mg/kg | 0.28 (1) | 0.39 (1) | 0.01 | 4516945 | 0.070 | 0.001 | 4523907 |
| Benzo(a)anthracene | mg/kg | 0.17 (1) | 0.29 (1) | 0.01 | 4516945 | 0.051 | 0.001 | 4523907 |
| Chrysene | mg/kg | 0.32 (1) | 0.51 (1) | 0.01 | 4516945 | 0.062 | 0.001 | 4523907 |
| Benzo(b&j)fluoranthene | mg/kg | 0.31 (1) | 0.45 (1) | 0.01 | 4516945 | 0.092 | 0.001 | 4523907 |
| Benzo(k)fluoranthene | mg/kg | 0.21 (1) | 0.30 (1) | 0.01 | 4516945 | 0.027 | 0.001 | 4523907 |
| Benzo(a)pyrene | mg/kg | 0.20 (1) | 0.30 (1) | 0.01 | 4516945 | 0.045 | 0.001 | 4523907 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.14 (1) | 0.19 (1) | 0.02 | 4516945 | 0.039 | 0.002 | 4523907 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 (1) | 0.07 (1) | 0.02 | 4516945 | 0.009 | 0.002 | 4523907 |
| Benzo(g,h,i)perylene | mg/kg | 0.15 (1) | 0.19 (1) | 0.02 | 4516945 | 0.040 | 0.002 | 4523907 |
| Low Molecular Weight PAH's | mg/kg | 0.61 | 0.70 | 0.01 | 4514763 | 0.13 | 0.001 | 4514763 |
| High Molecular Weight PAH's | mg/kg | 2.1 | 3.1 | 0.02 | 4514763 | 0.49 | 0.002 | 4514763 |
| Total PAH | mg/kg | 2.7 | 3.8 | 0.02 | 4514763 | 0.62 | 0.002 | 4514763 |
| Surrogate Recovery (%) | | | | | | | | |
| D10-ANTHRACENE (sur.) | % | 110 | 120 | | 4516945 | 91 | | 4523907 |
| D12-BENZO(A)PYRENE (sur.) | % | 110 | 110 | | 4516945 | 91 | | 4523907 |
| D8-ACENAPHTHYLENE (sur.) | % | 110 | 110 | | 4516945 | 86 | | 4523907 |
| D8-NAPHTHALENE (sur.) | % | 100 | 110 | | 4516945 | 86 | | 4523907 |
| TERPHENYL-D14 (sur.) | % | 110 | 120 | | 4516945 | 85 | | 4523907 |

 RDL = Reportable Detection Limit
 (1) RDL raised due to sample dilution.

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME PAH IN SOIL BY GC-MS (SOIL)

| Maxxam ID | | Z08695 | Z08701 | Z08711 | | |
|----------------------------------|--------------|-------------------------|-------------------------|-------------------------|------------|-----------------|
| Sampling Date | | 2010/12/14 14:05 | 2010/12/15 08:35 | 2010/12/15 09:30 | | |
| COC Number | | V002221 | V002222 | V002222 | | |
| | Units | TP10-21-1-101214 | TP10-23-2-101215 | TP10-25-2-101215 | RDL | QC Batch |
| Polycyclic Aromatics | | | | | | |
| Naphthalene | mg/kg | 0.020 | 0.015 | 0.011 | 0.001 | 4516945 |
| 2-Methylnaphthalene | mg/kg | 0.045 | 0.036 | 0.008 | 0.001 | 4516945 |
| Acenaphthylene | mg/kg | 0.011 | 0.002 | 0.016 | 0.001 | 4516945 |
| Acenaphthene | mg/kg | 0.004 | 0.003 | 0.004 | 0.001 | 4516945 |
| Fluorene | mg/kg | 0.015 | 0.016 | 0.007 | 0.001 | 4516945 |
| Phenanthrene | mg/kg | 0.098 | 0.065 | 0.070 | 0.001 | 4516945 |
| Anthracene | mg/kg | 0.015 | 0.006 | 0.030 | 0.001 | 4516945 |
| Fluoranthene | mg/kg | 0.11 | 0.018 | 0.12 | 0.001 | 4516945 |
| Pyrene | mg/kg | 0.12 | 0.028 | 0.11 | 0.001 | 4516945 |
| Benzo(a)anthracene | mg/kg | 0.028 | 0.010 | 0.062 | 0.001 | 4516945 |
| Chrysene | mg/kg | 0.059 | 0.030 | 0.071 | 0.001 | 4516945 |
| Benzo(b&j)fluoranthene | mg/kg | 0.046 | 0.022 | 0.071 | 0.001 | 4516945 |
| Benzo(k)fluoranthene | mg/kg | 0.024 | 0.008 | 0.052 | 0.001 | 4516945 |
| Benzo(a)pyrene | mg/kg | 0.025 | 0.010 | 0.057 | 0.001 | 4516945 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.017 | 0.007 | 0.040 | 0.002 | 4516945 |
| Dibenz(a,h)anthracene | mg/kg | 0.009 | 0.005 | 0.014 | 0.002 | 4516945 |
| Benzo(g,h,i)perylene | mg/kg | 0.027 | 0.016 | 0.043 | 0.002 | 4516945 |
| Low Molecular Weight PAH's | mg/kg | 0.21 | 0.14 | 0.15 | 0.001 | 4514763 |
| High Molecular Weight PAH's | mg/kg | 0.46 | 0.15 | 0.63 | 0.002 | 4514763 |
| Total PAH | mg/kg | 0.67 | 0.30 | 0.78 | 0.002 | 4514763 |
| Surrogate Recovery (%) | | | | | | |
| D10-ANTHRACENE (sur.) | % | 111 | 107 | 110 | | 4516945 |
| D12-BENZO(A)PYRENE (sur.) | % | 108 | 104 | 109 | | 4516945 |
| D8-ACENAPHTHYLENE (sur.) | % | 110 | 106 | 107 | | 4516945 |
| D8-NAPHTHALENE (sur.) | % | 100 | 97 | 97 | | 4516945 |
| TERPHENYL-D14 (sur.) | % | 115 | 111 | 112 | | 4516945 |
| RDL = Reportable Detection Limit | | | | | | |

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME PAH IN SOIL BY GC-MS (SOIL)

| | | | | | | | | |
|---------------|--------------|-------------------------|-----------------|-------------------------|------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08724 | | Z08725 | | Z08742 | | |
| Sampling Date | | 2010/12/15 10:10 | | 2010/12/15 10:10 | | 2010/12/15 11:05 | | |
| COC Number | | V002223 | | V002223 | | V002224 | | |
| | Units | TP10-27-2-101215 | QC Batch | TP10-27-3-101215 | RDL | TP10-30-2-101215 | RDL | QC Batch |

| Polycyclic Aromatics | | | | | | | | |
|-------------------------------|-------|-------|---------|-------|-------|-----------|------|---------|
| Naphthalene | mg/kg | 0.029 | 4527779 | 0.032 | 0.001 | 0.01 (1) | 0.01 | 4516945 |
| 2-Methylnaphthalene | mg/kg | 0.031 | 4527779 | 0.030 | 0.001 | 0.02 (1) | 0.01 | 4516945 |
| Acenaphthylene | mg/kg | 0.025 | 4527779 | 0.024 | 0.001 | 0.01 (1) | 0.01 | 4516945 |
| Acenaphthene | mg/kg | 0.042 | 4527779 | 0.029 | 0.001 | <0.01 (1) | 0.01 | 4516945 |
| Fluorene | mg/kg | 0.045 | 4527779 | 0.032 | 0.001 | <0.01 (1) | 0.01 | 4516945 |
| Phenanthrene | mg/kg | 0.45 | 4527779 | 0.31 | 0.001 | 0.03 (1) | 0.01 | 4516945 |
| Anthracene | mg/kg | 0.14 | 4527779 | 0.089 | 0.001 | 0.02 (1) | 0.01 | 4516945 |
| Fluoranthene | mg/kg | 0.64 | 4527779 | 0.43 | 0.001 | 0.05 (1) | 0.01 | 4516945 |
| Pyrene | mg/kg | 0.62 | 4527779 | 0.40 | 0.001 | 0.06 (1) | 0.01 | 4516945 |
| Benzo(a)anthracene | mg/kg | 0.35 | 4527779 | 0.20 | 0.001 | 0.03 (1) | 0.01 | 4516945 |
| Chrysene | mg/kg | 0.40 | 4527779 | 0.25 | 0.001 | 0.04 (1) | 0.01 | 4516945 |
| Benzo(b&j)fluoranthene | mg/kg | 0.52 | 4527779 | 0.23 | 0.001 | 0.05 (1) | 0.01 | 4516945 |
| Benzo(k)fluoranthene | mg/kg | 0.18 | 4527779 | 0.18 | 0.001 | 0.03 (1) | 0.01 | 4516945 |
| Benzo(a)pyrene | mg/kg | 0.37 | 4527779 | 0.19 | 0.001 | 0.04 (1) | 0.01 | 4516945 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.26 | 4527779 | 0.12 | 0.002 | 0.03 (1) | 0.02 | 4516945 |
| Dibenz(a,h)anthracene | mg/kg | 0.083 | 4527779 | 0.043 | 0.002 | <0.02 (1) | 0.02 | 4516945 |
| Benzo(g,h,i)perylene | mg/kg | 0.31 | 4527779 | 0.14 | 0.002 | 0.05 (1) | 0.02 | 4516945 |
| Low Molecular Weight PAH's | mg/kg | 0.76 | 4514763 | 0.54 | 0.001 | 0.10 | 0.01 | 4514763 |
| High Molecular Weight PAH's | mg/kg | 3.7 | 4514763 | 2.2 | 0.002 | 0.39 | 0.02 | 4514763 |
| Total PAH | mg/kg | 4.5 | 4514763 | 2.7 | 0.002 | 0.49 | 0.02 | 4514763 |
| Surrogate Recovery (%) | | | | | | | | |
| D10-ANTHRACENE (sur.) | % | 96 | 4527779 | 111 | | 120 | | 4516945 |
| D12-BENZO(A)PYRENE (sur.) | % | 98 | 4527779 | 109 | | 110 | | 4516945 |
| D8-ACENAPHTHYLENE (sur.) | % | 93 | 4527779 | 109 | | 120 | | 4516945 |
| D8-NAPHTHALENE (sur.) | % | 92 | 4527779 | 97 | | 110 | | 4516945 |
| TERPHENYL-D14 (sur.) | % | 102 | 4527779 | 111 | | 120 | | 4516945 |

 RDL = Reportable Detection Limit
 (1) RDL raised due to sample dilution.

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

 SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME VOC + F1 IN SOIL (SOIL)

| | | | | | | | |
|---------------|--------------|------------------------|------------------------|-----------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08627 | Z08649 | | Z08695 | | |
| Sampling Date | | 2010/12/14 08:50 | 2010/12/14 10:55 | | 2010/12/14 14:05 | | |
| COC Number | | V002218 | V002219 | | V002221 | | |
| | Units | TP10-1-1-101214 | TP10-8-1-101214 | QC Batch | TP10-21-1-101214 | RDL | QC Batch |

| Calculated Parameters | | | | | | | |
|-------------------------------|-------|--------|--------|---------|--------|-------|---------|
| F1 (C6-C10) - BTEX | mg/kg | <10 | <10 | 4512894 | <10 | 10 | 4512894 |
| Volatile Hydrocarbons | | | | | | | |
| (C6-C10) | mg/kg | <10 | <10 | 4516874 | <10 | 10 | 4519272 |
| Volatiles | | | | | | | |
| Chloromethane | mg/kg | <0.1 | <0.1 | 4516583 | <0.1 | 0.1 | 4516987 |
| Vinyl chloride | mg/kg | <0.06 | <0.06 | 4516583 | <0.06 | 0.06 | 4516987 |
| Bromomethane | mg/kg | <0.3 | <0.3 | 4516583 | <0.3 | 0.3 | 4516987 |
| Chloroethane | mg/kg | <0.1 | <0.1 | 4516583 | <0.1 | 0.1 | 4516987 |
| Trichlorofluoromethane | mg/kg | <0.2 | <0.2 | 4516583 | <0.2 | 0.2 | 4516987 |
| 1,1-dichloroethene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Dichloromethane | mg/kg | <0.1 | <0.1 | 4516583 | <0.1 | 0.1 | 4516987 |
| trans-1,2-dichloroethene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| 1,1-dichloroethane | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| cis-1,2-dichloroethene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Chloroform | mg/kg | <0.05 | <0.05 | 4516583 | <0.05 | 0.05 | 4516987 |
| 1,1,1-trichloroethane | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| 1,2-dichloroethane | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Carbon tetrachloride | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Benzene | mg/kg | <0.005 | <0.005 | 4516583 | <0.005 | 0.005 | 4516987 |
| Methyl-tert-butylether (MTBE) | mg/kg | <0.1 | <0.1 | 4516583 | <0.1 | 0.1 | 4516987 |
| 1,2-dichloropropane | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Trichloroethene | mg/kg | <0.01 | <0.01 | 4516583 | <0.01 | 0.01 | 4516987 |
| Bromodichloromethane | mg/kg | <0.05 | <0.05 | 4516583 | <0.05 | 0.05 | 4516987 |
| cis-1,3-dichloropropene | mg/kg | <0.05 | <0.05 | 4516583 | <0.05 | 0.05 | 4516987 |
| trans-1,3-dichloropropene | mg/kg | <0.05 | <0.05 | 4516583 | <0.05 | 0.05 | 4516987 |
| 1,1,2-trichloroethane | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Toluene | mg/kg | <0.02 | <0.02 | 4516583 | <0.02 | 0.02 | 4516987 |
| Chlorodibromomethane | mg/kg | <0.05 | <0.05 | 4516583 | <0.05 | 0.05 | 4516987 |
| Dibromoethane | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Tetrachloroethene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Chlorobenzene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| 1,1,1,2-tetrachloroethane | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |

RDL = Reportable Detection Limit

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME VOC + F1 IN SOIL (SOIL)

| Maxxam ID | | Z08627 | Z08649 | | Z08695 | | |
|----------------------------------|-------|---------------------|---------------------|----------|---------------------|------|----------|
| Sampling Date | | 2010/12/14 08:50 | 2010/12/14 10:55 | | 2010/12/14 14:05 | | |
| COC Number | | V002218 | V002219 | | V002221 | | |
| | Units | TP10-1-1-101214 | TP10-8-1-101214 | QC Batch | TP10-21-1-101214 | RDL | QC Batch |
| Ethylbenzene | mg/kg | <0.01 | <0.01 | 4516583 | <0.01 | 0.01 | 4516987 |
| m & p-Xylene | mg/kg | <0.04 | <0.04 | 4516583 | <0.04 | 0.04 | 4516987 |
| Bromoform | mg/kg | <0.05 | <0.05 | 4516583 | <0.05 | 0.05 | 4516987 |
| Styrene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| o-Xylene | mg/kg | <0.04 | <0.04 | 4516583 | <0.04 | 0.04 | 4516987 |
| Xylenes (Total) | mg/kg | <0.04 | <0.04 | 4516583 | <0.04 | 0.04 | 4516987 |
| 1,1,2,2-tetrachloroethane | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| 1,2-dichlorobenzene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| 1,3-dichlorobenzene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| 1,4-dichlorobenzene | mg/kg | <0.03 | <0.03 | 4516583 | <0.03 | 0.03 | 4516987 |
| Surrogate Recovery (%) | | | | | | | |
| 4-BROMOFLUOROBENZENE (sur.) | % | 90 | 102 | 4516583 | 102 | | 4516987 |
| D10-ETHYLBENZENE (sur.) | % | 94 | 102 | 4516583 | 87 | | 4516987 |
| D4-1,2-DICHLOROETHANE (sur.) | % | 95 | 105 | 4516583 | 119 | | 4516987 |
| D8-TOLUENE (sur.) | % | 99 | 104 | 4516583 | 116 | | 4516987 |
| RDL = Reportable Detection Limit | | | | | | | |

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME VOC + F1 IN SOIL (SOIL)

| | | | | |
|---------------|--------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08762 | | |
| Sampling Date | | 2010/12/15 12:05 | | |
| COC Number | | V002225 | | |
| | Units | TP10-33-2-101215 | RDL | QC Batch |

| Calculated Parameters | | | | |
|----------------------------------|-------|--------|-------|---------|
| F1 (C6-C10) - BTEX | mg/kg | <10 | 10 | 4512894 |
| Volatile Hydrocarbons | | | | |
| (C6-C10) | mg/kg | <10 | 10 | 4519272 |
| Volatiles | | | | |
| Chloromethane | mg/kg | <0.1 | 0.1 | 4516987 |
| Vinyl chloride | mg/kg | <0.06 | 0.06 | 4516987 |
| Bromomethane | mg/kg | <0.3 | 0.3 | 4516987 |
| Chloroethane | mg/kg | <0.1 | 0.1 | 4516987 |
| Trichlorofluoromethane | mg/kg | <0.2 | 0.2 | 4516987 |
| 1,1-dichloroethene | mg/kg | <0.03 | 0.03 | 4516987 |
| Dichloromethane | mg/kg | <0.1 | 0.1 | 4516987 |
| trans-1,2-dichloroethene | mg/kg | <0.03 | 0.03 | 4516987 |
| 1,1-dichloroethane | mg/kg | <0.03 | 0.03 | 4516987 |
| cis-1,2-dichloroethene | mg/kg | <0.03 | 0.03 | 4516987 |
| Chloroform | mg/kg | <0.05 | 0.05 | 4516987 |
| 1,1,1-trichloroethane | mg/kg | <0.03 | 0.03 | 4516987 |
| 1,2-dichloroethane | mg/kg | <0.03 | 0.03 | 4516987 |
| Carbon tetrachloride | mg/kg | <0.03 | 0.03 | 4516987 |
| Benzene | mg/kg | <0.005 | 0.005 | 4516987 |
| Methyl-tert-butylether (MTBE) | mg/kg | <0.1 | 0.1 | 4516987 |
| 1,2-dichloropropane | mg/kg | <0.03 | 0.03 | 4516987 |
| Trichloroethene | mg/kg | <0.01 | 0.01 | 4516987 |
| Bromodichloromethane | mg/kg | <0.05 | 0.05 | 4516987 |
| cis-1,3-dichloropropene | mg/kg | <0.05 | 0.05 | 4516987 |
| trans-1,3-dichloropropene | mg/kg | <0.05 | 0.05 | 4516987 |
| 1,1,2-trichloroethane | mg/kg | <0.03 | 0.03 | 4516987 |
| Toluene | mg/kg | <0.02 | 0.02 | 4516987 |
| Chlorodibromomethane | mg/kg | <0.05 | 0.05 | 4516987 |
| Dibromoethane | mg/kg | <0.03 | 0.03 | 4516987 |
| Tetrachloroethene | mg/kg | <0.03 | 0.03 | 4516987 |
| Chlorobenzene | mg/kg | <0.03 | 0.03 | 4516987 |
| 1,1,1,2-tetrachloroethane | mg/kg | <0.03 | 0.03 | 4516987 |
| RDL = Reportable Detection Limit | | | | |

Maxxam Job #: B0C2249
 Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Your P.O. #: ES10SL01
 Sampler Initials: SH

CCME VOC + F1 IN SOIL (SOIL)

| | | | | |
|----------------------------------|--------------|-------------------------|------------|-----------------|
| Maxxam ID | | Z08762 | | |
| Sampling Date | | 2010/12/15 12:05 | | |
| COC Number | | V002225 | | |
| | Units | TP10-33-2-101215 | RDL | QC Batch |
| Ethylbenzene | mg/kg | <0.01 | 0.01 | 4516987 |
| m & p-Xylene | mg/kg | <0.04 | 0.04 | 4516987 |
| Bromoform | mg/kg | <0.05 | 0.05 | 4516987 |
| Styrene | mg/kg | <0.03 | 0.03 | 4516987 |
| o-Xylene | mg/kg | <0.04 | 0.04 | 4516987 |
| Xylenes (Total) | mg/kg | <0.04 | 0.04 | 4516987 |
| 1,1,2,2-tetrachloroethane | mg/kg | <0.03 | 0.03 | 4516987 |
| 1,2-dichlorobenzene | mg/kg | <0.03 | 0.03 | 4516987 |
| 1,3-dichlorobenzene | mg/kg | <0.03 | 0.03 | 4516987 |
| 1,4-dichlorobenzene | mg/kg | <0.03 | 0.03 | 4516987 |
| Surrogate Recovery (%) | | | | |
| 4-BROMOFLUOROBENZENE (sur.) | % | 106 | | 4516987 |
| D10-ETHYLBENZENE (sur.) | % | 116 | | 4516987 |
| D4-1,2-DICHLOROETHANE (sur.) | % | 105 | | 4516987 |
| D8-TOLUENE (sur.) | % | 123 | | 4516987 |
| RDL = Reportable Detection Limit | | | | |

Maxxam Job #: B0C2249
Report Date: 2011/01/07

SNC LAVALIN ENVIRONMENT INC.
Client Project #: 504542 COL 15
Site Reference: COL 15, CFB ESQUIMALT
Your P.O. #: ES10SL01
Sampler Initials: SH

General Comments

Results relate only to the items tested.

SNC LAVALIN ENVIRONMENT INC.
 Attention: Scott Irwin
 Client Project #: 504542 COL 15
 P.O. #: ES10SL01
 Site Reference: COL 15, CFB ESQUIMALT

Quality Assurance Report

Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|-----------------|-------------------------------|-----------------------------|--------------------|----------|-------|-----------|
| 4516346 | CG5 | Method Blank | 2010/12/18 | <0.3 | | % | |
| | | RPD | 2010/12/18 | 1.3 | | % | 20 |
| 4516482 | CG5 | Method Blank | 2010/12/19 | <0.3 | | % | |
| | | RPD | 2010/12/19 | 2.9 | | % | 20 |
| 4516582 | MM5 | Matrix Spike [Z08725-01] | | | | | |
| | | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/19 | | 101 | % | 70 - 130 |
| | | D10-ETHYLBENZENE (sur.) | 2010/12/19 | | 103 | % | 50 - 130 |
| | | D4-1,2-DICHLOROETHANE (sur.) | 2010/12/19 | | 102 | % | 70 - 130 |
| | | D8-TOLUENE (sur.) | 2010/12/19 | | 98 | % | 70 - 130 |
| | | Benzene | 2010/12/19 | | 103 | % | 60 - 140 |
| | | Toluene | 2010/12/19 | | 103 | % | 60 - 140 |
| | | Ethylbenzene | 2010/12/19 | | 107 | % | 60 - 140 |
| | | m & p-Xylene | 2010/12/19 | | 106 | % | 60 - 140 |
| | | o-Xylene | 2010/12/19 | | 108 | % | 60 - 140 |
| | QC Standard | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/19 | | 101 | % | 70 - 130 |
| | | D10-ETHYLBENZENE (sur.) | 2010/12/19 | | 89 | % | 50 - 130 |
| | | D4-1,2-DICHLOROETHANE (sur.) | 2010/12/19 | | 101 | % | 70 - 130 |
| | | D8-TOLUENE (sur.) | 2010/12/19 | | 99 | % | 70 - 130 |
| | | (C6-C10) | 2010/12/19 | | 106 | % | 60 - 140 |
| | Spiked Blank | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/19 | | 100 | % | 70 - 130 |
| | | D10-ETHYLBENZENE (sur.) | 2010/12/19 | | 91 | % | 50 - 130 |
| | | D4-1,2-DICHLOROETHANE (sur.) | 2010/12/19 | | 101 | % | 70 - 130 |
| | | D8-TOLUENE (sur.) | 2010/12/19 | | 98 | % | 70 - 130 |
| | | Benzene | 2010/12/19 | | 104 | % | 60 - 140 |
| | | Toluene | 2010/12/19 | | 104 | % | 60 - 140 |
| | | Ethylbenzene | 2010/12/19 | | 109 | % | 60 - 140 |
| | | m & p-Xylene | 2010/12/19 | | 108 | % | 60 - 140 |
| | | o-Xylene | 2010/12/19 | | 109 | % | 60 - 140 |
| | Method Blank | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/19 | | 97 | % | 70 - 130 |
| | | D10-ETHYLBENZENE (sur.) | 2010/12/19 | | 98 | % | 50 - 130 |
| | | D4-1,2-DICHLOROETHANE (sur.) | 2010/12/19 | | 97 | % | 70 - 130 |
| | | D8-TOLUENE (sur.) | 2010/12/19 | | 99 | % | 70 - 130 |
| | | Methyl-tert-butylether (MTBE) | 2010/12/19 | <0.1 | | mg/kg | |
| | | Benzene | 2010/12/19 | <0.005 | | mg/kg | |
| | | Toluene | 2010/12/19 | 0.02, RDL=0.02 (1) | | mg/kg | |
| | | Ethylbenzene | 2010/12/19 | <0.01 | | mg/kg | |
| | | m & p-Xylene | 2010/12/19 | <0.04 | | mg/kg | |
| | | o-Xylene | 2010/12/19 | <0.04 | | mg/kg | |
| | | Styrene | 2010/12/19 | <0.03 | | mg/kg | |
| | | Xylenes (Total) | 2010/12/19 | <0.04 | | mg/kg | |
| | | (C6-C10) | 2010/12/19 | <10 | | mg/kg | |
| | RPD [Z08725-01] | Methyl-tert-butylether (MTBE) | 2010/12/19 | NC | | % | 40 |
| | | Benzene | 2010/12/19 | NC | | % | 40 |
| | | Toluene | 2010/12/19 | NC | | % | 40 |
| | | Ethylbenzene | 2010/12/19 | NC | | % | 40 |
| | | m & p-Xylene | 2010/12/19 | NC | | % | 40 |
| | | o-Xylene | 2010/12/19 | NC | | % | 40 |
| | | Styrene | 2010/12/19 | NC | | % | 40 |
| | | Xylenes (Total) | 2010/12/19 | NC | | % | 40 |
| | | (C6-C10) | 2010/12/19 | NC | | % | 40 |
| 4516583 | MM5 | Matrix Spike | | | | | |
| | | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/19 | | 109 | % | 70 - 130 |
| | | D10-ETHYLBENZENE (sur.) | 2010/12/19 | | 110 | % | 50 - 130 |
| | | D4-1,2-DICHLOROETHANE (sur.) | 2010/12/19 | | 109 | % | 70 - 130 |
| | | D8-TOLUENE (sur.) | 2010/12/19 | | 102 | % | 70 - 130 |
| | | Chloromethane | 2010/12/19 | | 116 | % | 40 - 150 |

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Maxxam Job Number: VB0C2249

| QA/QC Batch | | Date Analyzed | | | | | | |
|--------------------------|------------|------------------|---------------------------|------------------------------|------------|-------|-----------|----------|
| Num Init | QC Type | Parameter | yyyy/mm/dd | Value | Recovery | Units | QC Limits | |
| 4516583 | MM5 | Matrix Spike | Vinyl chloride | 2010/12/19 | | 118 | % | 40 - 150 |
| | | | Bromomethane | 2010/12/19 | | 78 | % | 40 - 150 |
| | | | Chloroethane | 2010/12/19 | | 101 | % | 40 - 150 |
| | | | Trichlorofluoromethane | 2010/12/19 | | 120 | % | 40 - 150 |
| | | | 1,1-dichloroethene | 2010/12/19 | | 109 | % | 60 - 140 |
| | | | Dichloromethane | 2010/12/19 | | 115 | % | 60 - 140 |
| | | | trans-1,2-dichloroethene | 2010/12/19 | | 99 | % | 60 - 140 |
| | | | 1,1-dichloroethane | 2010/12/19 | | 111 | % | 60 - 140 |
| | | | cis-1,2-dichloroethene | 2010/12/19 | | 102 | % | 60 - 140 |
| | | | Chloroform | 2010/12/19 | | 113 | % | 60 - 140 |
| | | | 1,1,1-trichloroethane | 2010/12/19 | | 112 | % | 60 - 140 |
| | | | 1,2-dichloroethane | 2010/12/19 | | 117 | % | 60 - 140 |
| | | | Carbon tetrachloride | 2010/12/19 | | 116 | % | 60 - 140 |
| | | | Benzene | 2010/12/19 | | 116 | % | 60 - 140 |
| | | | 1,2-dichloropropane | 2010/12/19 | | 110 | % | 60 - 140 |
| | | | Trichloroethene | 2010/12/19 | | 110 | % | 60 - 140 |
| | | | Bromodichloromethane | 2010/12/19 | | 108 | % | 60 - 140 |
| | | | cis-1,3-dichloropropene | 2010/12/19 | | 78 | % | 60 - 140 |
| | | | trans-1,3-dichloropropene | 2010/12/19 | | 78 | % | 60 - 140 |
| | | | 1,1,2-trichloroethane | 2010/12/19 | | 105 | % | 60 - 140 |
| | | | Toluene | 2010/12/19 | | 110 | % | 60 - 140 |
| | | | Chlorodibromomethane | 2010/12/19 | | 104 | % | 60 - 140 |
| | | | Dibromoethane | 2010/12/19 | | 112 | % | 60 - 140 |
| | | | Tetrachloroethene | 2010/12/19 | | 105 | % | 60 - 140 |
| | | | Chlorobenzene | 2010/12/19 | | 113 | % | 60 - 140 |
| | | | 1,1,1,2-tetrachloroethane | 2010/12/19 | | 105 | % | 60 - 140 |
| | | | Ethylbenzene | 2010/12/19 | | 120 | % | 60 - 140 |
| | | | m & p-Xylene | 2010/12/19 | | 126 | % | 60 - 140 |
| | | | Bromoform | 2010/12/19 | | 96 | % | 60 - 140 |
| | | | Styrene | 2010/12/19 | | 125 | % | 60 - 140 |
| | | | o-Xylene | 2010/12/19 | | 118 | % | 60 - 140 |
| | | | 1,1,2,2-tetrachloroethane | 2010/12/19 | | 107 | % | 60 - 140 |
| | | | 1,2-dichlorobenzene | 2010/12/19 | | 110 | % | 60 - 140 |
| | | | 1,3-dichlorobenzene | 2010/12/19 | | 113 | % | 60 - 140 |
| | | | 1,4-dichlorobenzene | 2010/12/19 | | 109 | % | 60 - 140 |
| | | | Spiked Blank | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/19 | 109 | % | 70 - 130 |
| | | | | D10-ETHYLBENZENE (sur.) | 2010/12/19 | 97 | % | 50 - 130 |
| | | | | D4-1,2-DICHLOROETHANE (sur.) | 2010/12/19 | 109 | % | 70 - 130 |
| | | | | D8-TOLUENE (sur.) | 2010/12/19 | 99 | % | 70 - 130 |
| | | | | Chloromethane | 2010/12/19 | 118 | % | 40 - 150 |
| | | | | Vinyl chloride | 2010/12/19 | 119 | % | 40 - 150 |
| | | | | Bromomethane | 2010/12/19 | 92 | % | 40 - 150 |
| | | | | Chloroethane | 2010/12/19 | 93 | % | 40 - 150 |
| | | | | Trichlorofluoromethane | 2010/12/19 | 110 | % | 40 - 150 |
| | | | | 1,1-dichloroethene | 2010/12/19 | 100 | % | 60 - 140 |
| Dichloromethane | 2010/12/19 | 116 | | % | 60 - 140 | | | |
| trans-1,2-dichloroethene | 2010/12/19 | 96 | | % | 60 - 140 | | | |
| 1,1-dichloroethane | 2010/12/19 | 100 | | % | 60 - 140 | | | |
| cis-1,2-dichloroethene | 2010/12/19 | 96 | | % | 60 - 140 | | | |
| Chloroform | 2010/12/19 | 100 | | % | 60 - 140 | | | |
| 1,1,1-trichloroethane | 2010/12/19 | 96 | % | 60 - 140 | | | | |
| 1,2-dichloroethane | 2010/12/19 | 105 | % | 60 - 140 | | | | |
| Carbon tetrachloride | 2010/12/19 | 107 | % | 60 - 140 | | | | |
| Benzene | 2010/12/19 | 94 | % | 60 - 140 | | | | |
| 1,2-dichloropropane | 2010/12/19 | 97 | % | 60 - 140 | | | | |

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| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | |
|-------------|---------------------------|---------------------------|-------------------------------|------------|----------|-------|-----------|----------|
| 4516583 MM5 | Spiked Blank | Trichloroethene | 2010/12/19 | | 98 | % | 60 - 140 | |
| | | Bromodichloromethane | 2010/12/19 | | 94 | % | 60 - 140 | |
| | | cis-1,3-dichloropropene | 2010/12/19 | | 69 | % | 60 - 140 | |
| | | trans-1,3-dichloropropene | 2010/12/19 | | 73 | % | 60 - 140 | |
| | | 1,1,2-trichloroethane | 2010/12/19 | | 92 | % | 60 - 140 | |
| | | Toluene | 2010/12/19 | | 99 | % | 60 - 140 | |
| | | Chlorodibromomethane | 2010/12/19 | | 107 | % | 60 - 140 | |
| | | Dibromoethane | 2010/12/19 | | 101 | % | 60 - 140 | |
| | | Tetrachloroethene | 2010/12/19 | | 95 | % | 60 - 140 | |
| | | Chlorobenzene | 2010/12/19 | | 102 | % | 60 - 140 | |
| | | 1,1,1,2-tetrachloroethane | 2010/12/19 | | 92 | % | 60 - 140 | |
| | | Ethylbenzene | 2010/12/19 | | 107 | % | 60 - 140 | |
| | | m & p-Xylene | 2010/12/19 | | 112 | % | 60 - 140 | |
| | | Bromoform | 2010/12/19 | | 86 | % | 60 - 140 | |
| | | Styrene | 2010/12/19 | | 109 | % | 60 - 140 | |
| | | o-Xylene | 2010/12/19 | | 107 | % | 60 - 140 | |
| | | 1,1,2,2-tetrachloroethane | 2010/12/19 | | 100 | % | 60 - 140 | |
| | | 1,2-dichlorobenzene | 2010/12/19 | | 100 | % | 60 - 140 | |
| | | 1,3-dichlorobenzene | 2010/12/19 | | 85 | % | 60 - 140 | |
| | | 1,4-dichlorobenzene | 2010/12/19 | | 100 | % | 60 - 140 | |
| | | Method Blank | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/19 | | 80 | % | 70 - 130 |
| | | | D10-ETHYLBENZENE (sur.) | 2010/12/19 | | 91 | % | 50 - 130 |
| | | | D4-1,2-DICHLOROETHANE (sur.) | 2010/12/19 | | 85 | % | 70 - 130 |
| | | | D8-TOLUENE (sur.) | 2010/12/19 | | 87 | % | 70 - 130 |
| | | | Chloromethane | 2010/12/19 | <0.1 | | mg/kg | |
| | | | Vinyl chloride | 2010/12/19 | <0.06 | | mg/kg | |
| | | | Bromomethane | 2010/12/19 | <0.3 | | mg/kg | |
| | | | Chloroethane | 2010/12/19 | <0.1 | | mg/kg | |
| | | | Trichlorofluoromethane | 2010/12/19 | <0.2 | | mg/kg | |
| | | | 1,1-dichloroethene | 2010/12/19 | <0.03 | | mg/kg | |
| | | | Dichloromethane | 2010/12/19 | <0.1 | | mg/kg | |
| | | | trans-1,2-dichloroethene | 2010/12/19 | <0.03 | | mg/kg | |
| | | | 1,1-dichloroethane | 2010/12/19 | <0.03 | | mg/kg | |
| | | | cis-1,2-dichloroethene | 2010/12/19 | <0.03 | | mg/kg | |
| | | | Chloroform | 2010/12/19 | <0.05 | | mg/kg | |
| | | | 1,1,1-trichloroethane | 2010/12/19 | <0.03 | | mg/kg | |
| | | | 1,2-dichloroethane | 2010/12/19 | <0.03 | | mg/kg | |
| | | | Carbon tetrachloride | 2010/12/19 | <0.03 | | mg/kg | |
| | | | Benzene | 2010/12/19 | <0.005 | | mg/kg | |
| | | | Methyl-tert-butylether (MTBE) | 2010/12/19 | <0.1 | | mg/kg | |
| | | | 1,2-dichloropropane | 2010/12/19 | <0.03 | | mg/kg | |
| | | | Trichloroethene | 2010/12/19 | <0.01 | | mg/kg | |
| | | | Bromodichloromethane | 2010/12/19 | <0.05 | | mg/kg | |
| | | | cis-1,3-dichloropropene | 2010/12/19 | <0.05 | | mg/kg | |
| | | | trans-1,3-dichloropropene | 2010/12/19 | <0.05 | | mg/kg | |
| | 1,1,2-trichloroethane | 2010/12/19 | <0.03 | | mg/kg | | | |
| | Toluene | 2010/12/19 | 0.03, RDL=0.02 (2) | | mg/kg | | | |
| | Chlorodibromomethane | 2010/12/19 | <0.05 | | mg/kg | | | |
| | Dibromoethane | 2010/12/19 | <0.03 | | mg/kg | | | |
| | Tetrachloroethene | 2010/12/19 | <0.03 | | mg/kg | | | |
| | Chlorobenzene | 2010/12/19 | <0.03 | | mg/kg | | | |
| | 1,1,1,2-tetrachloroethane | 2010/12/19 | <0.03 | | mg/kg | | | |
| | Ethylbenzene | 2010/12/19 | <0.01 | | mg/kg | | | |
| | m & p-Xylene | 2010/12/19 | <0.04 | | mg/kg | | | |
| | Bromoform | 2010/12/19 | <0.05 | | mg/kg | | | |

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| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|-----------------|-------------------------------|-----------------------------|-------|----------|-------|-----------|
| 4516583 MM5 | Method Blank | Styrene | 2010/12/19 | <0.03 | | mg/kg | |
| | | o-Xylene | 2010/12/19 | <0.04 | | mg/kg | |
| | | Xylenes (Total) | 2010/12/19 | <0.04 | | mg/kg | |
| | | 1,1,2,2-tetrachloroethane | 2010/12/19 | <0.03 | | mg/kg | |
| | | 1,2-dichlorobenzene | 2010/12/19 | <0.03 | | mg/kg | |
| | | 1,3-dichlorobenzene | 2010/12/19 | <0.03 | | mg/kg | |
| | | 1,4-dichlorobenzene | 2010/12/19 | <0.03 | | mg/kg | |
| | RPD | Chloromethane | 2010/12/19 | NC | | % | 40 |
| | | Vinyl chloride | 2010/12/19 | NC | | % | 40 |
| | | Bromomethane | 2010/12/19 | NC | | % | 40 |
| | | Chloroethane | 2010/12/19 | NC | | % | 40 |
| | | Trichlorofluoromethane | 2010/12/19 | NC | | % | 40 |
| | | 1,1-dichloroethene | 2010/12/19 | NC | | % | 40 |
| | | Dichloromethane | 2010/12/19 | NC | | % | 40 |
| | | trans-1,2-dichloroethene | 2010/12/19 | NC | | % | 40 |
| | | 1,1-dichloroethane | 2010/12/19 | NC | | % | 40 |
| | | cis-1,2-dichloroethene | 2010/12/19 | NC | | % | 40 |
| | | Chloroform | 2010/12/19 | NC | | % | 40 |
| | | 1,1,1-trichloroethane | 2010/12/19 | NC | | % | 40 |
| | | 1,2-dichloroethane | 2010/12/19 | NC | | % | 40 |
| | | Carbon tetrachloride | 2010/12/19 | NC | | % | 40 |
| | | Benzene | 2010/12/19 | NC | | % | 40 |
| | | Methyl-tert-butylether (MTBE) | 2010/12/19 | NC | | % | 40 |
| | | 1,2-dichloropropane | 2010/12/19 | NC | | % | 40 |
| | | Trichloroethene | 2010/12/19 | NC | | % | 40 |
| | | Bromodichloromethane | 2010/12/19 | NC | | % | 40 |
| | | cis-1,3-dichloropropene | 2010/12/19 | NC | | % | 40 |
| | | trans-1,3-dichloropropene | 2010/12/19 | NC | | % | 40 |
| | | 1,1,2-trichloroethane | 2010/12/19 | NC | | % | 40 |
| | | Toluene | 2010/12/19 | NC | | % | 40 |
| | | Chlorodibromomethane | 2010/12/19 | NC | | % | 40 |
| | | Dibromoethane | 2010/12/19 | NC | | % | 40 |
| | | Tetrachloroethene | 2010/12/19 | NC | | % | 40 |
| | | Chlorobenzene | 2010/12/19 | NC | | % | 40 |
| | | 1,1,1,2-tetrachloroethane | 2010/12/19 | NC | | % | 40 |
| | | Ethylbenzene | 2010/12/19 | NC | | % | 40 |
| | | m & p-Xylene | 2010/12/19 | NC | | % | 40 |
| | | Bromoform | 2010/12/19 | NC | | % | 40 |
| | | Styrene | 2010/12/19 | NC | | % | 40 |
| | | o-Xylene | 2010/12/19 | NC | | % | 40 |
| | | Xylenes (Total) | 2010/12/19 | NC | | % | 40 |
| | | 1,1,2,2-tetrachloroethane | 2010/12/19 | NC | | % | 40 |
| | | 1,2-dichlorobenzene | 2010/12/19 | NC | | % | 40 |
| | | 1,3-dichlorobenzene | 2010/12/19 | NC | | % | 40 |
| | | 1,4-dichlorobenzene | 2010/12/19 | NC | | % | 40 |
| 4516874 MM5 | QC Standard | (C6-C10) | 2010/12/19 | | 95 | % | 60 - 140 |
| | Method Blank | (C6-C10) | 2010/12/19 | <10 | | mg/kg | |
| 4516887 JGD | Method Blank | Saturation % | 2010/12/19 | <1 | | % | |
| | RPD [Z08711-02] | Saturation % | 2010/12/19 | 0.6 | | % | 30 |
| 4516890 TW2 | Spiked Blank | Soluble Conductivity | 2010/12/20 | | 101 | % | 80 - 120 |
| | Method Blank | Soluble Conductivity | 2010/12/20 | <1 | | uS/cm | |
| | RPD [Z08711-02] | Soluble Conductivity | 2010/12/20 | 1 | | % | 35 |
| 4516945 RW4 | Matrix Spike | D10-ANTHRACENE (sur.) | 2010/12/20 | | 107 | % | 60 - 130 |
| | | D12-BENZO(A)PYRENE (sur.) | 2010/12/20 | | 107 | % | 60 - 130 |
| | | D8-ACENAPHTHYLENE (sur.) | 2010/12/20 | | 104 | % | 50 - 130 |

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| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | |
|------------------------|---------------------------|------------------------|-----------------------------|------------------|----------|----------|-----------|----------|
| 4516945 RW4 | Matrix Spike | D8-NAPHTHALENE (sur.) | 2010/12/20 | | 95 | % | 50 - 130 | |
| | | TERPHENYL-D14 (sur.) | 2010/12/20 | | 107 | % | 60 - 130 | |
| | | Naphthalene | 2010/12/20 | | 95 | % | 40 - 130 | |
| | | 2-Methylnaphthalene | 2010/12/20 | | 89 | % | 40 - 130 | |
| | | Acenaphthylene | 2010/12/20 | | 101 | % | 40 - 130 | |
| | | Acenaphthene | 2010/12/20 | | 102 | % | 40 - 130 | |
| | | Fluorene | 2010/12/20 | | 103 | % | 40 - 130 | |
| | | Phenanthrene | 2010/12/20 | | 102 | % | 40 - 130 | |
| | | Anthracene | 2010/12/20 | | 103 | % | 40 - 130 | |
| | | Fluoranthene | 2010/12/20 | | 104 | % | 40 - 130 | |
| | | Pyrene | 2010/12/20 | | 106 | % | 40 - 130 | |
| | | Benzo(a)anthracene | 2010/12/20 | | 96 | % | 40 - 130 | |
| | | Chrysene | 2010/12/20 | | 92 | % | 40 - 130 | |
| | | Benzo(b&j)fluoranthene | 2010/12/20 | | 103 | % | 40 - 130 | |
| | | Benzo(k)fluoranthene | 2010/12/20 | | 97 | % | 40 - 130 | |
| | | Benzo(a)pyrene | 2010/12/20 | | 102 | % | 40 - 130 | |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/20 | | 103 | % | 40 - 130 | |
| | | Dibenz(a,h)anthracene | 2010/12/20 | | 96 | % | 40 - 130 | |
| | | Benzo(g,h,i)perylene | 2010/12/20 | | 97 | % | 40 - 130 | |
| | | Spiked Blank | D10-ANTHRACENE (sur.) | 2010/12/19 | | 108 | % | 60 - 130 |
| | | | D12-BENZO(A)PYRENE (sur.) | 2010/12/19 | | 109 | % | 60 - 130 |
| | | | D8-ACENAPHTHYLENE (sur.) | 2010/12/19 | | 96 | % | 50 - 130 |
| | | | D8-NAPHTHALENE (sur.) | 2010/12/19 | | 93 | % | 50 - 130 |
| | | | TERPHENYL-D14 (sur.) | 2010/12/19 | | 109 | % | 60 - 130 |
| | | | Naphthalene | 2010/12/19 | | 88 | % | 40 - 130 |
| | | | 2-Methylnaphthalene | 2010/12/19 | | 82 | % | 40 - 130 |
| | | | Acenaphthylene | 2010/12/19 | | 92 | % | 40 - 130 |
| | | | Acenaphthene | 2010/12/19 | | 94 | % | 40 - 130 |
| | | | Fluorene | 2010/12/19 | | 93 | % | 40 - 130 |
| | | | Phenanthrene | 2010/12/19 | | 98 | % | 40 - 130 |
| | | | Anthracene | 2010/12/19 | | 97 | % | 40 - 130 |
| | | | Fluoranthene | 2010/12/19 | | 97 | % | 40 - 130 |
| | | | Pyrene | 2010/12/19 | | 101 | % | 40 - 130 |
| Benzo(a)anthracene | 2010/12/19 | | | 93 | % | 40 - 130 | | |
| Chrysene | 2010/12/19 | | | 90 | % | 40 - 130 | | |
| Benzo(b&j)fluoranthene | 2010/12/19 | | | 97 | % | 40 - 130 | | |
| Benzo(k)fluoranthene | 2010/12/19 | | | 93 | % | 40 - 130 | | |
| Benzo(a)pyrene | 2010/12/19 | | | 97 | % | 40 - 130 | | |
| Indeno(1,2,3-cd)pyrene | 2010/12/19 | | | 98 | % | 40 - 130 | | |
| Dibenz(a,h)anthracene | 2010/12/19 | | | 89 | % | 40 - 130 | | |
| Benzo(g,h,i)perylene | 2010/12/19 | | | 96 | % | 40 - 130 | | |
| Method Blank | D10-ANTHRACENE (sur.) | | 2010/12/19 | | 105 | % | 60 - 130 | |
| | D12-BENZO(A)PYRENE (sur.) | | 2010/12/19 | | 104 | % | 60 - 130 | |
| | D8-ACENAPHTHYLENE (sur.) | | 2010/12/19 | | 98 | % | 50 - 130 | |
| | D8-NAPHTHALENE (sur.) | | 2010/12/19 | | 96 | % | 50 - 130 | |
| | TERPHENYL-D14 (sur.) | | 2010/12/19 | | 107 | % | 60 - 130 | |
| | Naphthalene | | 2010/12/19 | <0.001 | | | mg/kg | |
| | 2-Methylnaphthalene | | 2010/12/19 | <0.001 | | | mg/kg | |
| | Acenaphthylene | | 2010/12/19 | <0.001 | | | mg/kg | |
| | Acenaphthene | | 2010/12/19 | <0.001 | | | mg/kg | |
| | Fluorene | | 2010/12/19 | <0.001 | | | mg/kg | |
| | Phenanthrene | | 2010/12/19 | 0.001, RDL=0.001 | | | mg/kg | |
| | Anthracene | 2010/12/19 | <0.001 | | | mg/kg | | |
| | Fluoranthene | 2010/12/19 | <0.001 | | | mg/kg | | |
| | Pyrene | 2010/12/19 | <0.001 | | | mg/kg | | |

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| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | | |
|------------------------------|-------------------------------|------------------------|-----------------------------|-----------------------------|------------|-------|-----------|----------|----------|
| 4516945 RW4 | Method Blank | Benzo(a)anthracene | 2010/12/19 | <0.001 | | mg/kg | | | |
| | | Chrysene | 2010/12/19 | <0.001 | | mg/kg | | | |
| | | Benzo(b&j)fluoranthene | 2010/12/19 | <0.001 | | mg/kg | | | |
| | | Benzo(k)fluoranthene | 2010/12/19 | <0.001 | | mg/kg | | | |
| | | Benzo(a)pyrene | 2010/12/19 | <0.001 | | mg/kg | | | |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/19 | <0.002 | | mg/kg | | | |
| | | Dibenz(a,h)anthracene | 2010/12/19 | <0.002 | | mg/kg | | | |
| | RPD | Benzo(g,h,i)perylene | 2010/12/19 | <0.002 | | mg/kg | | | |
| | | Naphthalene | 2010/12/20 | NC | | % | 50 | | |
| | | 2-Methylnaphthalene | 2010/12/20 | NC | | % | 50 | | |
| | | Acenaphthylene | 2010/12/20 | NC | | % | 50 | | |
| | | Acenaphthene | 2010/12/20 | NC | | % | 50 | | |
| | | Fluorene | 2010/12/20 | NC | | % | 50 | | |
| | | Phenanthrene | 2010/12/20 | NC (3) | | % | 50 | | |
| | | Anthracene | 2010/12/20 | NC | | % | 50 | | |
| | | Fluoranthene | 2010/12/20 | 5.4 | | % | 50 | | |
| | | Pyrene | 2010/12/20 | 7.5 | | % | 50 | | |
| | | Benzo(a)anthracene | 2010/12/20 | NC | | % | 50 | | |
| | | Chrysene | 2010/12/20 | 10.1 | | % | 50 | | |
| | | Benzo(b&j)fluoranthene | 2010/12/20 | NC | | % | 50 | | |
| | | Benzo(k)fluoranthene | 2010/12/20 | NC | | % | 50 | | |
| | | Benzo(a)pyrene | 2010/12/20 | NC | | % | 50 | | |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/20 | NC | | % | 50 | | |
| | | Dibenz(a,h)anthracene | 2010/12/20 | NC | | % | 50 | | |
| | | Benzo(g,h,i)perylene | 2010/12/20 | NC | | % | 50 | | |
| | | 4516981 KPA | Matrix Spike | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/19 | | 102 | % | 70 - 130 |
| | | | | D10-ETHYLBENZENE (sur.) | 2010/12/19 | | 111 | % | 50 - 130 |
| D4-1,2-DICHLOROETHANE (sur.) | 2010/12/19 | | | | 109 | % | 70 - 130 | | |
| D8-TOLUENE (sur.) | 2010/12/19 | | | | 94 | % | 70 - 130 | | |
| Benzene | 2010/12/19 | | | | 124 | % | 60 - 140 | | |
| Toluene | 2010/12/19 | | | | 114 | % | 60 - 140 | | |
| Ethylbenzene | 2010/12/19 | | | | 124 | % | 60 - 140 | | |
| m & p-Xylene | 2010/12/19 | | | | 124 | % | 60 - 140 | | |
| o-Xylene | 2010/12/19 | | | | 124 | % | 60 - 140 | | |
| QC Standard | 4-BROMOFLUOROBENZENE (sur.) | | | 2010/12/19 | | 101 | % | 70 - 130 | |
| | D10-ETHYLBENZENE (sur.) | | 2010/12/19 | | 101 | % | 50 - 130 | | |
| | D4-1,2-DICHLOROETHANE (sur.) | | 2010/12/19 | | 112 | % | 70 - 130 | | |
| | D8-TOLUENE (sur.) | | 2010/12/19 | | 92 | % | 70 - 130 | | |
| | (C6-C10) | | 2010/12/19 | | 82 | % | 60 - 140 | | |
| Spiked Blank | 4-BROMOFLUOROBENZENE (sur.) | | 2010/12/19 | | 102 | % | 70 - 130 | | |
| | D10-ETHYLBENZENE (sur.) | | 2010/12/19 | | 100 | % | 50 - 130 | | |
| | D4-1,2-DICHLOROETHANE (sur.) | | 2010/12/19 | | 106 | % | 70 - 130 | | |
| | D8-TOLUENE (sur.) | | 2010/12/19 | | 94 | % | 70 - 130 | | |
| | Benzene | | 2010/12/19 | | 111 | % | 60 - 140 | | |
| | Toluene | | 2010/12/19 | | 102 | % | 60 - 140 | | |
| | Ethylbenzene | | 2010/12/19 | | 112 | % | 60 - 140 | | |
| | m & p-Xylene | | 2010/12/19 | | 112 | % | 60 - 140 | | |
| Method Blank | o-Xylene | | 2010/12/19 | | 112 | % | 60 - 140 | | |
| | 4-BROMOFLUOROBENZENE (sur.) | | 2010/12/19 | | 98 | % | 70 - 130 | | |
| | D10-ETHYLBENZENE (sur.) | | 2010/12/19 | | 111 | % | 50 - 130 | | |
| | D4-1,2-DICHLOROETHANE (sur.) | | 2010/12/19 | | 106 | % | 70 - 130 | | |
| | D8-TOLUENE (sur.) | | 2010/12/19 | | 94 | % | 70 - 130 | | |
| | Methyl-tert-butylether (MTBE) | 2010/12/19 | <0.1 | | mg/kg | | | | |
| | Benzene | 2010/12/19 | <0.005 | | mg/kg | | | | |
| | Toluene | 2010/12/19 | 0.03, RDL=0.02 (4) | | mg/kg | | | | |

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Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|------------------------------|-----------------------------|-----------------|-----------------------------|-----------------------------|------------|----------|-----------|
| 4516981 KPA | Method Blank | Ethylbenzene | 2010/12/19 | <0.01 | | mg/kg | |
| | | m & p-Xylene | 2010/12/19 | <0.04 | | mg/kg | |
| | | o-Xylene | 2010/12/19 | <0.04 | | mg/kg | |
| | | Styrene | 2010/12/19 | <0.03 | | mg/kg | |
| | | Xylenes (Total) | 2010/12/19 | <0.04 | | mg/kg | |
| | | (C6-C10) | 2010/12/19 | <10 | | mg/kg | |
| | RPD | Benzene | 2010/12/19 | NC | | % | 40 |
| | | Toluene | 2010/12/19 | NC | | % | 40 |
| | | Ethylbenzene | 2010/12/19 | NC | | % | 40 |
| | | m & p-Xylene | 2010/12/19 | NC | | % | 40 |
| | | o-Xylene | 2010/12/19 | NC | | % | 40 |
| | | Styrene | 2010/12/19 | NC | | % | 40 |
| | | Xylenes (Total) | 2010/12/19 | NC | | % | 40 |
| | | 4516987 KL | Matrix Spike | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/21 | | 85 |
| D10-ETHYLBENZENE (sur.) | 2010/12/21 | | | | 93 | % | 50 - 130 |
| D4-1,2-DICHLOROETHANE (sur.) | 2010/12/21 | | | | 102 | % | 70 - 130 |
| D8-TOLUENE (sur.) | 2010/12/21 | | | | 96 | % | 70 - 130 |
| Chloromethane | 2010/12/21 | | | | 72 | % | 40 - 150 |
| Vinyl chloride | 2010/12/21 | | | | 87 | % | 40 - 150 |
| Bromomethane | 2010/12/21 | | | | 94 | % | 40 - 150 |
| Chloroethane | 2010/12/21 | | | | 90 | % | 40 - 150 |
| Trichlorofluoromethane | 2010/12/21 | | | | 90 | % | 40 - 150 |
| 1,1-dichloroethene | 2010/12/21 | | | | 70 | % | 60 - 140 |
| Dichloromethane | 2010/12/21 | | | | 65 | % | 60 - 140 |
| trans-1,2-dichloroethene | 2010/12/21 | | | | 68 | % | 60 - 140 |
| 1,1-dichloroethane | 2010/12/21 | | | | 75 | % | 60 - 140 |
| cis-1,2-dichloroethene | 2010/12/21 | | | | 83 | % | 60 - 140 |
| Chloroform | 2010/12/21 | | | | 73 | % | 60 - 140 |
| 1,1,1-trichloroethane | 2010/12/21 | | | | 85 | % | 60 - 140 |
| 1,2-dichloroethane | 2010/12/21 | | | | 102 | % | 60 - 140 |
| Carbon tetrachloride | 2010/12/21 | | | | 85 | % | 60 - 140 |
| Benzene | 2010/12/21 | | | | 90 | % | 60 - 140 |
| 1,2-dichloropropane | 2010/12/21 | | | | 83 | % | 60 - 140 |
| Trichloroethene | 2010/12/21 | | | | 89 | % | 60 - 140 |
| Bromodichloromethane | 2010/12/21 | | | | 80 | % | 60 - 140 |
| cis-1,3-dichloropropene | 2010/12/21 | | | | 69 | % | 60 - 140 |
| trans-1,3-dichloropropene | 2010/12/21 | | | | 93 | % | 60 - 140 |
| 1,1,2-trichloroethane | 2010/12/21 | | | | 64 | % | 60 - 140 |
| Toluene | 2010/12/21 | | | | 72 | % | 60 - 140 |
| Chlorodibromomethane | 2010/12/21 | | | | 77 | % | 60 - 140 |
| Dibromoethane | 2010/12/21 | | | | 67 | % | 60 - 140 |
| Tetrachloroethene | 2010/12/21 | | | | 69 | % | 60 - 140 |
| Chlorobenzene | 2010/12/21 | | | | 78 | % | 60 - 140 |
| 1,1,1,2-tetrachloroethane | 2010/12/21 | | | | 73 | % | 60 - 140 |
| Ethylbenzene | 2010/12/21 | | | | 75 | % | 60 - 140 |
| m & p-Xylene | 2010/12/21 | | | | 88 | % | 60 - 140 |
| Bromoform | 2010/12/21 | | | | 68 | % | 60 - 140 |
| Styrene | 2010/12/21 | | | | 78 | % | 60 - 140 |
| o-Xylene | 2010/12/21 | | | | 76 | % | 60 - 140 |
| 1,1,2,2-tetrachloroethane | 2010/12/21 | | | 83 | % | 60 - 140 | |
| 1,2-dichlorobenzene | 2010/12/21 | | | 95 | % | 60 - 140 | |
| 1,3-dichlorobenzene | 2010/12/21 | | | 71 | % | 60 - 140 | |
| 1,4-dichlorobenzene | 2010/12/21 | | | 85 | % | 40 - 160 | |
| Spiked Blank | 4-BROMOFLUOROBENZENE (sur.) | | 2010/12/21 | | 111 | % | 70 - 130 |
| | D10-ETHYLBENZENE (sur.) | | 2010/12/21 | | 100 | % | 50 - 130 |

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Maxxam Job Number: VB0C2249

| QA/QC Batch Num Init | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | | |
|------------------------------|--------------|------------------------------|--------------------------------|-----------------------------|------------|-------|-----------|---|----------|
| 4516987 KL | Spiked Blank | D4-1,2-DICHLOROETHANE (sur.) | 2010/12/21 | | 114 | % | 70 - 130 | | |
| | | D8-TOLUENE (sur.) | 2010/12/21 | | 79 | % | 70 - 130 | | |
| | | Chloromethane | 2010/12/21 | | 77 | % | 40 - 150 | | |
| | | Vinyl chloride | 2010/12/21 | | 101 | % | 40 - 150 | | |
| | | Bromomethane | 2010/12/21 | | 55 | % | 40 - 150 | | |
| | | Chloroethane | 2010/12/21 | | 94 | % | 40 - 150 | | |
| | | Trichlorofluoromethane | 2010/12/21 | | 111 | % | 40 - 150 | | |
| | | 1,1-dichloroethene | 2010/12/21 | | 106 | % | 60 - 140 | | |
| | | Dichloromethane | 2010/12/21 | | 98 | % | 60 - 140 | | |
| | | trans-1,2-dichloroethene | 2010/12/21 | | 100 | % | 60 - 140 | | |
| | | 1,1-dichloroethane | 2010/12/21 | | 110 | % | 60 - 140 | | |
| | | cis-1,2-dichloroethene | 2010/12/21 | | 105 | % | 60 - 140 | | |
| | | Chloroform | 2010/12/21 | | 109 | % | 60 - 140 | | |
| | | 1,1,1-trichloroethane | 2010/12/21 | | 104 | % | 60 - 140 | | |
| | | 1,2-dichloroethane | 2010/12/21 | | 101 | % | 60 - 140 | | |
| | | Carbon tetrachloride | 2010/12/21 | | 100 | % | 60 - 140 | | |
| | | Benzene | 2010/12/21 | | 100 | % | 60 - 140 | | |
| | | 1,2-dichloropropane | 2010/12/21 | | 87 | % | 60 - 140 | | |
| | | Trichloroethene | 2010/12/21 | | 78 | % | 60 - 140 | | |
| | | Bromodichloromethane | 2010/12/21 | | 97 | % | 60 - 140 | | |
| | | cis-1,3-dichloropropene | 2010/12/21 | | 48 (5) | % | 60 - 140 | | |
| | | trans-1,3-dichloropropene | 2010/12/21 | | 36 (5) | % | 60 - 140 | | |
| | | 1,1,2-trichloroethane | 2010/12/21 | | 100 | % | 60 - 140 | | |
| | | Toluene | 2010/12/21 | | 82 | % | 60 - 140 | | |
| | | Chlorodibromomethane | 2010/12/21 | | 105 | % | 60 - 140 | | |
| | | Dibromoethane | 2010/12/21 | | 103 | % | 60 - 140 | | |
| | | Tetrachloroethene | 2010/12/21 | | 103 | % | 60 - 140 | | |
| | | Chlorobenzene | 2010/12/21 | | 106 | % | 60 - 140 | | |
| | | 1,1,1,2-tetrachloroethane | 2010/12/21 | | 109 | % | 60 - 140 | | |
| | | Ethylbenzene | 2010/12/21 | | 109 | % | 60 - 140 | | |
| | | m & p-Xylene | 2010/12/21 | | 115 | % | 60 - 140 | | |
| | | Bromoform | 2010/12/21 | | 102 | % | 60 - 140 | | |
| | | Styrene | 2010/12/21 | | 111 | % | 60 - 140 | | |
| | | o-Xylene | 2010/12/21 | | 108 | % | 60 - 140 | | |
| | | 1,1,2,2-tetrachloroethane | 2010/12/21 | | 101 | % | 60 - 140 | | |
| | | 1,2-dichlorobenzene | 2010/12/21 | | 105 | % | 60 - 140 | | |
| | | 1,3-dichlorobenzene | 2010/12/21 | | 86 | % | 60 - 140 | | |
| | | 1,4-dichlorobenzene | 2010/12/21 | | 97 | % | 60 - 140 | | |
| | | Method Blank | | 4-BROMOFLUOROBENZENE (sur.) | 2010/12/21 | | 79 | % | 70 - 130 |
| | | | | D10-ETHYLBENZENE (sur.) | 2010/12/21 | | 111 | % | 50 - 130 |
| D4-1,2-DICHLOROETHANE (sur.) | 2010/12/21 | | | | 97 | % | 70 - 130 | | |
| D8-TOLUENE (sur.) | 2010/12/21 | | | | 106 | % | 70 - 130 | | |
| Chloromethane | 2010/12/21 | | | <0.1 | | mg/kg | | | |
| Vinyl chloride | 2010/12/21 | | | <0.06 | | mg/kg | | | |
| Bromomethane | 2010/12/21 | | | <0.3 | | mg/kg | | | |
| Chloroethane | 2010/12/21 | | | <0.1 | | mg/kg | | | |
| Trichlorofluoromethane | 2010/12/21 | | | <0.2 | | mg/kg | | | |
| 1,1-dichloroethene | 2010/12/21 | | | <0.03 | | mg/kg | | | |
| Dichloromethane | 2010/12/21 | | | <0.1 | | mg/kg | | | |
| trans-1,2-dichloroethene | 2010/12/21 | | | <0.03 | | mg/kg | | | |
| 1,1-dichloroethane | 2010/12/21 | | | <0.03 | | mg/kg | | | |
| cis-1,2-dichloroethene | 2010/12/21 | | | <0.03 | | mg/kg | | | |
| Chloroform | 2010/12/21 | | | <0.05 | | mg/kg | | | |
| 1,1,1-trichloroethane | 2010/12/21 | | | <0.03 | | mg/kg | | | |
| 1,2-dichloroethane | 2010/12/21 | <0.03 | | mg/kg | | | | | |

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Maxxam Job Number: VB0C2249

| QA/QC Batch Num Init | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|---------------------------|--------------|-------------------------------|--------------------------|--------------------|----------|-------|-----------|
| 4516987 KL | Method Blank | Carbon tetrachloride | 2010/12/21 | <0.03 | | mg/kg | |
| | | Benzene | 2010/12/21 | <0.005 | | mg/kg | |
| | | Methyl-tert-butylether (MTBE) | 2010/12/21 | <0.1 | | mg/kg | |
| | | 1,2-dichloropropane | 2010/12/21 | <0.03 | | mg/kg | |
| | | Trichloroethene | 2010/12/21 | <0.01 | | mg/kg | |
| | | Bromodichloromethane | 2010/12/21 | <0.05 | | mg/kg | |
| | | cis-1,3-dichloropropene | 2010/12/21 | <0.05 | | mg/kg | |
| | | trans-1,3-dichloropropene | 2010/12/21 | <0.05 | | mg/kg | |
| | | 1,1,2-trichloroethane | 2010/12/21 | <0.03 | | mg/kg | |
| | | Toluene | 2010/12/21 | 0.03, RDL=0.02 (2) | | mg/kg | |
| | | Chlorodibromomethane | 2010/12/21 | <0.05 | | mg/kg | |
| | | Dibromoethane | 2010/12/21 | <0.03 | | mg/kg | |
| | | Tetrachloroethene | 2010/12/21 | <0.03 | | mg/kg | |
| | | Chlorobenzene | 2010/12/21 | <0.03 | | mg/kg | |
| | | 1,1,1,2-tetrachloroethane | 2010/12/21 | <0.03 | | mg/kg | |
| | | Ethylbenzene | 2010/12/21 | <0.01 | | mg/kg | |
| | | m & p-Xylene | 2010/12/21 | <0.04 | | mg/kg | |
| | | Bromoform | 2010/12/21 | <0.05 | | mg/kg | |
| | | Styrene | 2010/12/21 | <0.03 | | mg/kg | |
| | | o-Xylene | 2010/12/21 | <0.04 | | mg/kg | |
| | | Xylenes (Total) | 2010/12/21 | <0.04 | | mg/kg | |
| | | 1,1,2,2-tetrachloroethane | 2010/12/21 | <0.03 | | mg/kg | |
| | | 1,2-dichlorobenzene | 2010/12/21 | <0.03 | | mg/kg | |
| | | 1,3-dichlorobenzene | 2010/12/21 | <0.03 | | mg/kg | |
| | | 1,4-dichlorobenzene | 2010/12/21 | <0.03 | | mg/kg | |
| | RPD | Chloromethane | 2010/12/21 | NC | | % | 40 |
| | | Vinyl chloride | 2010/12/21 | NC | | % | 40 |
| | | Bromomethane | 2010/12/21 | NC | | % | 40 |
| | | Chloroethane | 2010/12/21 | NC | | % | 40 |
| | | Trichlorofluoromethane | 2010/12/21 | NC | | % | 40 |
| | | 1,1-dichloroethene | 2010/12/21 | NC | | % | 40 |
| | | Dichloromethane | 2010/12/21 | NC | | % | 40 |
| | | trans-1,2-dichloroethene | 2010/12/21 | NC | | % | 40 |
| | | 1,1-dichloroethane | 2010/12/21 | NC | | % | 40 |
| | | cis-1,2-dichloroethene | 2010/12/21 | NC | | % | 40 |
| | | Chloroform | 2010/12/21 | NC | | % | 40 |
| | | 1,1,1-trichloroethane | 2010/12/21 | NC | | % | 40 |
| | | 1,2-dichloroethane | 2010/12/21 | NC | | % | 40 |
| | | Carbon tetrachloride | 2010/12/21 | NC | | % | 40 |
| | | Benzene | 2010/12/21 | NC | | % | 40 |
| | | Methyl-tert-butylether (MTBE) | 2010/12/21 | NC | | % | 40 |
| | | 1,2-dichloropropane | 2010/12/21 | NC | | % | 40 |
| | | Trichloroethene | 2010/12/21 | NC | | % | 40 |
| | | Bromodichloromethane | 2010/12/21 | NC | | % | 40 |
| | | cis-1,3-dichloropropene | 2010/12/21 | NC | | % | 40 |
| trans-1,3-dichloropropene | 2010/12/21 | NC | | % | 40 | | |
| 1,1,2-trichloroethane | 2010/12/21 | NC | | % | 40 | | |
| Toluene | 2010/12/21 | NC | | % | 40 | | |
| Chlorodibromomethane | 2010/12/21 | NC | | % | 40 | | |
| Dibromoethane | 2010/12/21 | NC | | % | 40 | | |
| Tetrachloroethene | 2010/12/21 | NC | | % | 40 | | |
| Chlorobenzene | 2010/12/21 | NC | | % | 40 | | |
| 1,1,1,2-tetrachloroethane | 2010/12/21 | NC | | % | 40 | | |
| Ethylbenzene | 2010/12/21 | NC | | % | 40 | | |
| m & p-Xylene | 2010/12/21 | NC | | % | 40 | | |

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Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|--------------|----------------------|---------------------------|-----------------------------|-------|----------|----------|-----------|
| 4516987 KL | RPD | Bromoform | 2010/12/21 | NC | | % | 40 |
| | | Styrene | 2010/12/21 | NC | | % | 40 |
| | | o-Xylene | 2010/12/21 | NC | | % | 40 |
| | | Xylenes (Total) | 2010/12/21 | NC | | % | 40 |
| | | 1,1,2,2-tetrachloroethane | 2010/12/21 | NC | | % | 40 |
| | | 1,2-dichlorobenzene | 2010/12/21 | NC | | % | 40 |
| | | 1,3-dichlorobenzene | 2010/12/21 | NC | | % | 40 |
| | | 1,4-dichlorobenzene | 2010/12/21 | NC | | % | 40 |
| 4518158 ASE | Matrix Spike | Total Arsenic (As) | 2010/12/21 | | 86 | % | 75 - 125 |
| | | Total Beryllium (Be) | 2010/12/21 | | 86 | % | 75 - 125 |
| | | Total Cadmium (Cd) | 2010/12/21 | | 100 | % | 75 - 125 |
| | | Total Chromium (Cr) | 2010/12/21 | | 88 | % | 75 - 125 |
| | | Total Cobalt (Co) | 2010/12/21 | | 86 | % | 75 - 125 |
| | | Total Copper (Cu) | 2010/12/21 | | 90 | % | 75 - 125 |
| | | Total Lead (Pb) | 2010/12/21 | | 103 | % | 75 - 125 |
| | | Total Mercury (Hg) | 2010/12/21 | | 98 | % | 75 - 125 |
| | | Total Nickel (Ni) | 2010/12/21 | | 87 | % | 75 - 125 |
| | | Total Selenium (Se) | 2010/12/21 | | 88 | % | 75 - 125 |
| | QC Standard | Total Vanadium (V) | 2010/12/21 | | 91 | % | 75 - 125 |
| | | Total Zinc (Zn) | 2010/12/21 | | NC | % | 75 - 125 |
| | | Total Aluminum (Al) | 2010/12/21 | | 102 | % | 70 - 130 |
| | | Total Antimony (Sb) | 2010/12/21 | | 98 | % | 70 - 130 |
| | | Total Arsenic (As) | 2010/12/21 | | 97 | % | 70 - 130 |
| | | Total Barium (Ba) | 2010/12/21 | | 98 | % | 70 - 130 |
| | | Total Cadmium (Cd) | 2010/12/21 | | 99 | % | 70 - 130 |
| | | Total Calcium (Ca) | 2010/12/21 | | 98 | % | 70 - 130 |
| | | Total Chromium (Cr) | 2010/12/21 | | 103 | % | 70 - 130 |
| | | Total Cobalt (Co) | 2010/12/21 | | 97 | % | 70 - 130 |
| | Spiked Blank | Total Copper (Cu) | 2010/12/21 | | 93 | % | 70 - 130 |
| | | Total Iron (Fe) | 2010/12/21 | | 97 | % | 70 - 130 |
| | | Total Lead (Pb) | 2010/12/21 | | 102 | % | 70 - 130 |
| | | Total Magnesium (Mg) | 2010/12/21 | | 99 | % | 70 - 130 |
| | | Total Manganese (Mn) | 2010/12/21 | | 99 | % | 70 - 130 |
| | | Total Molybdenum (Mo) | 2010/12/21 | | 99 | % | 70 - 130 |
| | | Total Nickel (Ni) | 2010/12/21 | | 96 | % | 70 - 130 |
| | | Total Phosphorus (P) | 2010/12/21 | | 96 | % | 70 - 130 |
| | | Total Strontium (Sr) | 2010/12/21 | | 91 | % | 70 - 130 |
| | | Total Thallium (Tl) | 2010/12/21 | | 91 | % | 70 - 130 |
| | | Total Titanium (Ti) | 2010/12/21 | | 101 | % | 70 - 130 |
| | | Total Vanadium (V) | 2010/12/21 | | 104 | % | 70 - 130 |
| | | Total Zinc (Zn) | 2010/12/21 | | 94 | % | 70 - 130 |
| Method Blank | Total Arsenic (As) | 2010/12/21 | | 101 | % | 75 - 125 | |
| | Total Beryllium (Be) | 2010/12/21 | | 96 | % | 75 - 125 | |
| | Total Cadmium (Cd) | 2010/12/21 | | 104 | % | 75 - 125 | |
| | Total Chromium (Cr) | 2010/12/21 | | 102 | % | 75 - 125 | |
| | Total Cobalt (Co) | 2010/12/21 | | 100 | % | 75 - 125 | |
| | Total Copper (Cu) | 2010/12/21 | | 103 | % | 75 - 125 | |
| | Total Lead (Pb) | 2010/12/21 | | 104 | % | 75 - 125 | |
| | Total Mercury (Hg) | 2010/12/21 | | 101 | % | 75 - 125 | |
| | Total Nickel (Ni) | 2010/12/21 | | 100 | % | 75 - 125 | |
| | Total Selenium (Se) | 2010/12/21 | | 103 | % | 75 - 125 | |
| Method Blank | Total Vanadium (V) | 2010/12/21 | | 103 | % | 75 - 125 | |
| | Total Zinc (Zn) | 2010/12/21 | | 110 | % | 75 - 125 | |
| Method Blank | Total Aluminum (Al) | 2010/12/21 | | <100 | | mg/kg | |
| | Total Antimony (Sb) | 2010/12/21 | | <0.1 | | mg/kg | |

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Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|--------------|-----------------------|-----------------------------|-------|----------|-------|-----------|
| 4518158 ASE | Method Blank | Total Arsenic (As) | 2010/12/21 | <0.2 | | mg/kg | |
| | | Total Barium (Ba) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Beryllium (Be) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Bismuth (Bi) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Cadmium (Cd) | 2010/12/21 | <0.05 | | mg/kg | |
| | | Total Calcium (Ca) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Chromium (Cr) | 2010/12/21 | <1 | | mg/kg | |
| | | Total Cobalt (Co) | 2010/12/21 | <0.3 | | mg/kg | |
| | | Total Copper (Cu) | 2010/12/21 | <0.5 | | mg/kg | |
| | | Total Iron (Fe) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Lead (Pb) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Magnesium (Mg) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Manganese (Mn) | 2010/12/21 | <0.2 | | mg/kg | |
| | | Total Mercury (Hg) | 2010/12/21 | <0.05 | | mg/kg | |
| | | Total Molybdenum (Mo) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Nickel (Ni) | 2010/12/21 | <0.8 | | mg/kg | |
| | | Total Phosphorus (P) | 2010/12/21 | <10 | | mg/kg | |
| | | Total Potassium (K) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Selenium (Se) | 2010/12/21 | <0.5 | | mg/kg | |
| | | Total Silver (Ag) | 2010/12/21 | <0.05 | | mg/kg | |
| | | Total Sodium (Na) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Strontium (Sr) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Thallium (Tl) | 2010/12/21 | <0.05 | | mg/kg | |
| | | Total Tin (Sn) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Titanium (Ti) | 2010/12/21 | <1 | | mg/kg | |
| | | Total Vanadium (V) | 2010/12/21 | <2 | | mg/kg | |
| | | Total Zinc (Zn) | 2010/12/21 | <1 | | mg/kg | |
| | | Total Zirconium (Zr) | 2010/12/21 | <0.5 | | mg/kg | |
| | RPD | Total Aluminum (Al) | 2010/12/21 | 1.1 | | % | 35 |
| | | Total Antimony (Sb) | 2010/12/21 | NC | | % | 30 |
| | | Total Arsenic (As) | 2010/12/21 | 15.7 | | % | 30 |
| | | Total Barium (Ba) | 2010/12/21 | 1.9 | | % | 35 |
| | | Total Beryllium (Be) | 2010/12/21 | NC | | % | 30 |
| | | Total Bismuth (Bi) | 2010/12/21 | NC | | % | 30 |
| | | Total Cadmium (Cd) | 2010/12/21 | NC | | % | 30 |
| | | Total Calcium (Ca) | 2010/12/21 | 4.3 | | % | 30 |
| | | Total Chromium (Cr) | 2010/12/21 | 4.4 | | % | 30 |
| | | Total Cobalt (Co) | 2010/12/21 | 4.3 | | % | 30 |
| | | Total Copper (Cu) | 2010/12/21 | 0.4 | | % | 30 |
| | | Total Iron (Fe) | 2010/12/21 | 0.2 | | % | 30 |
| | | Total Lead (Pb) | 2010/12/21 | 1.5 | | % | 35 |
| | | Total Magnesium (Mg) | 2010/12/21 | 6.8 | | % | 30 |
| | | Total Manganese (Mn) | 2010/12/21 | 1.7 | | % | 30 |
| | | Total Mercury (Hg) | 2010/12/21 | NC | | % | 35 |
| | | Total Molybdenum (Mo) | 2010/12/21 | NC | | % | 35 |
| | | Total Nickel (Ni) | 2010/12/21 | NC | | % | 30 |
| | | Total Phosphorus (P) | 2010/12/21 | 1.9 | | % | 30 |
| | | Total Potassium (K) | 2010/12/21 | 4.3 | | % | 35 |
| | | Total Selenium (Se) | 2010/12/21 | NC | | % | 30 |
| | | Total Silver (Ag) | 2010/12/21 | NC | | % | 35 |
| | | Total Strontium (Sr) | 2010/12/21 | 0.6 | | % | 35 |
| | | Total Thallium (Tl) | 2010/12/21 | NC | | % | 30 |
| | | Total Tin (Sn) | 2010/12/21 | NC | | % | 35 |
| | | Total Titanium (Ti) | 2010/12/21 | 0.5 | | % | 35 |
| | | Total Vanadium (V) | 2010/12/21 | 0.2 | | % | 30 |

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 Client Project #: 504542 COL 15
 P.O. #: ES10SL01
 Site Reference: COL 15, CFB ESQUIMALT

Quality Assurance Report (Continued)

Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|-----------------------------|-----------------------|-----------------------------|-------|----------|-------|-----------|
| 4518158 ASE | RPD | Total Zinc (Zn) | 2010/12/21 | 1.9 | | % | 30 |
| | | Total Zirconium (Zr) | 2010/12/21 | NC | | % | 30 |
| 4518169 TW2 | Spiked Blank | Soluble (2:1) pH | 2010/12/20 | | 101 | % | 96 - 104 |
| | RPD | Soluble (2:1) pH | 2010/12/20 | 1.8 | | % | 20 |
| 4518254 ASE | Matrix Spike [Z08718-02] | Total Arsenic (As) | 2010/12/21 | | 98 | % | 75 - 125 |
| | | Total Beryllium (Be) | 2010/12/21 | | 97 | % | 75 - 125 |
| | | Total Cadmium (Cd) | 2010/12/21 | | 107 | % | 75 - 125 |
| | | Total Chromium (Cr) | 2010/12/21 | | NC | % | 75 - 125 |
| | | Total Cobalt (Co) | 2010/12/21 | | 99 | % | 75 - 125 |
| | | Total Copper (Cu) | 2010/12/21 | | NC | % | 75 - 125 |
| | | Total Lead (Pb) | 2010/12/21 | | NC | % | 75 - 125 |
| | | Total Mercury (Hg) | 2010/12/21 | | 97 | % | 75 - 125 |
| | | Total Nickel (Ni) | 2010/12/21 | | NC | % | 75 - 125 |
| | | Total Selenium (Se) | 2010/12/21 | | 99 | % | 75 - 125 |
| | | Total Vanadium (V) | 2010/12/21 | | NC | % | 75 - 125 |
| | QC Standard | Total Zinc (Zn) | 2010/12/21 | | NC | % | 75 - 125 |
| | | Total Aluminum (Al) | 2010/12/21 | | 94 | % | 70 - 130 |
| | | Total Antimony (Sb) | 2010/12/21 | | 97 | % | 70 - 130 |
| | | Total Arsenic (As) | 2010/12/21 | | 91 | % | 70 - 130 |
| | | Total Barium (Ba) | 2010/12/21 | | 94 | % | 70 - 130 |
| | | Total Cadmium (Cd) | 2010/12/21 | | 94 | % | 70 - 130 |
| | | Total Calcium (Ca) | 2010/12/21 | | 92 | % | 70 - 130 |
| | | Total Chromium (Cr) | 2010/12/21 | | 97 | % | 70 - 130 |
| | | Total Cobalt (Co) | 2010/12/21 | | 89 | % | 70 - 130 |
| | | Total Copper (Cu) | 2010/12/21 | | 88 | % | 70 - 130 |
| | | Total Iron (Fe) | 2010/12/21 | | 90 | % | 70 - 130 |
| | | Total Lead (Pb) | 2010/12/21 | | 99 | % | 70 - 130 |
| | | Total Magnesium (Mg) | 2010/12/21 | | 92 | % | 70 - 130 |
| | | Total Manganese (Mn) | 2010/12/21 | | 94 | % | 70 - 130 |
| | | Total Molybdenum (Mo) | 2010/12/21 | | 86 | % | 70 - 130 |
| | | Total Nickel (Ni) | 2010/12/21 | | 91 | % | 70 - 130 |
| | | Total Phosphorus (P) | 2010/12/21 | | 92 | % | 70 - 130 |
| | | Total Strontium (Sr) | 2010/12/21 | | 87 | % | 70 - 130 |
| | | Total Thallium (Tl) | 2010/12/21 | | 83 | % | 70 - 130 |
| | | Total Titanium (Ti) | 2010/12/21 | | 95 | % | 70 - 130 |
| | | Total Vanadium (V) | 2010/12/21 | | 98 | % | 70 - 130 |
| | Spiked Blank | Total Zinc (Zn) | 2010/12/21 | | 90 | % | 70 - 130 |
| | | Total Arsenic (As) | 2010/12/21 | | 96 | % | 75 - 125 |
| | | Total Beryllium (Be) | 2010/12/21 | | 99 | % | 75 - 125 |
| | | Total Cadmium (Cd) | 2010/12/21 | | 105 | % | 75 - 125 |
| | | Total Chromium (Cr) | 2010/12/21 | | 101 | % | 75 - 125 |
| | | Total Cobalt (Co) | 2010/12/21 | | 99 | % | 75 - 125 |
| | | Total Copper (Cu) | 2010/12/21 | | 103 | % | 75 - 125 |
| | | Total Lead (Pb) | 2010/12/21 | | 102 | % | 75 - 125 |
| | | Total Mercury (Hg) | 2010/12/21 | | 98 | % | 75 - 125 |
| | | Total Nickel (Ni) | 2010/12/21 | | 99 | % | 75 - 125 |
| | | Total Selenium (Se) | 2010/12/21 | | 103 | % | 75 - 125 |
| | | Total Vanadium (V) | 2010/12/21 | | 103 | % | 75 - 125 |
| | | Total Zinc (Zn) | 2010/12/21 | | 112 | % | 75 - 125 |
| | Method Blank | Total Aluminum (Al) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Antimony (Sb) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Arsenic (As) | 2010/12/21 | <0.2 | | mg/kg | |
| | | Total Barium (Ba) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Beryllium (Be) | 2010/12/21 | <0.1 | | mg/kg | |

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 Site Reference: COL 15, CFB ESQUIMALT

Quality Assurance Report (Continued)

Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|-----------------|-----------------------|-----------------------------|-------|----------|-------|-----------|
| 4518254 ASE | Method Blank | Total Bismuth (Bi) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Cadmium (Cd) | 2010/12/21 | <0.05 | | mg/kg | |
| | | Total Calcium (Ca) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Chromium (Cr) | 2010/12/21 | <1 | | mg/kg | |
| | | Total Cobalt (Co) | 2010/12/21 | <0.3 | | mg/kg | |
| | | Total Copper (Cu) | 2010/12/21 | <0.5 | | mg/kg | |
| | | Total Iron (Fe) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Lead (Pb) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Magnesium (Mg) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Manganese (Mn) | 2010/12/21 | <0.2 | | mg/kg | |
| | | Total Mercury (Hg) | 2010/12/21 | <0.05 | | mg/kg | |
| | | Total Molybdenum (Mo) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Nickel (Ni) | 2010/12/21 | <0.8 | | mg/kg | |
| | | Total Phosphorus (P) | 2010/12/21 | <10 | | mg/kg | |
| | | Total Potassium (K) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Selenium (Se) | 2010/12/21 | <0.5 | | mg/kg | |
| | | Total Silver (Ag) | 2010/12/21 | <0.05 | | mg/kg | |
| | | Total Sodium (Na) | 2010/12/21 | <100 | | mg/kg | |
| | | Total Strontium (Sr) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Thallium (Tl) | 2010/12/21 | <0.05 | | mg/kg | |
| | | Total Tin (Sn) | 2010/12/21 | <0.1 | | mg/kg | |
| | | Total Titanium (Ti) | 2010/12/21 | <1 | | mg/kg | |
| | | Total Vanadium (V) | 2010/12/21 | <2 | | mg/kg | |
| | | Total Zinc (Zn) | 2010/12/21 | <1 | | mg/kg | |
| | | Total Zirconium (Zr) | 2010/12/21 | <0.5 | | mg/kg | |
| | RPD [Z08718-02] | Total Aluminum (Al) | 2010/12/21 | 1.3 | | % | 35 |
| | | Total Antimony (Sb) | 2010/12/21 | 5.0 | | % | 30 |
| | | Total Arsenic (As) | 2010/12/21 | 6.7 | | % | 30 |
| | | Total Barium (Ba) | 2010/12/21 | 0.7 | | % | 35 |
| | | Total Beryllium (Be) | 2010/12/21 | NC | | % | 30 |
| | | Total Bismuth (Bi) | 2010/12/21 | NC | | % | 30 |
| | | Total Cadmium (Cd) | 2010/12/21 | NC | | % | 30 |
| | | Total Calcium (Ca) | 2010/12/21 | 10.3 | | % | 30 |
| | | Total Chromium (Cr) | 2010/12/21 | 4.4 | | % | 30 |
| | | Total Cobalt (Co) | 2010/12/21 | 1.9 | | % | 30 |
| | | Total Copper (Cu) | 2010/12/21 | 1.8 | | % | 30 |
| | | Total Iron (Fe) | 2010/12/21 | 2.9 | | % | 30 |
| | | Total Lead (Pb) | 2010/12/21 | 3.1 | | % | 35 |
| | | Total Magnesium (Mg) | 2010/12/21 | 2.0 | | % | 30 |
| | | Total Manganese (Mn) | 2010/12/21 | 3.1 | | % | 30 |
| | | Total Mercury (Hg) | 2010/12/21 | NC | | % | 35 |
| | | Total Molybdenum (Mo) | 2010/12/21 | NC | | % | 35 |
| | | Total Nickel (Ni) | 2010/12/21 | 2.3 | | % | 30 |
| | | Total Phosphorus (P) | 2010/12/21 | 1.8 | | % | 30 |
| | | Total Potassium (K) | 2010/12/21 | NC | | % | 35 |
| | | Total Selenium (Se) | 2010/12/21 | NC | | % | 30 |
| | | Total Silver (Ag) | 2010/12/21 | NC | | % | 35 |
| | | Total Sodium (Na) | 2010/12/21 | 0.7 | | % | 35 |
| | | Total Strontium (Sr) | 2010/12/21 | 15.2 | | % | 35 |
| | | Total Thallium (Tl) | 2010/12/21 | NC | | % | 30 |
| | | Total Tin (Sn) | 2010/12/21 | NC | | % | 35 |
| | | Total Titanium (Ti) | 2010/12/21 | 2.0 | | % | 35 |
| | | Total Vanadium (V) | 2010/12/21 | 2.2 | | % | 30 |
| | | Total Zinc (Zn) | 2010/12/21 | 1.7 | | % | 30 |
| | | Total Zirconium (Zr) | 2010/12/21 | NC | | % | 30 |

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 P.O. #: ES10SL01
 Site Reference: COL 15, CFB ESQUIMALT

Quality Assurance Report (Continued)

Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|-----------------|----------------------------|-----------------------------|-------|----------|-------|-----------|
| 4518257 TW2 | Spiked Blank | Soluble (2:1) pH | 2010/12/20 | | 101 | % | 96 - 104 |
| | RPD [Z08649-02] | Soluble (2:1) pH | 2010/12/20 | 1 | | % | 20 |
| 4519061 JXV | Method Blank | Wet Soluble Calcium (Ca) | 2010/12/21 | <5 | | mg/L | |
| | | Wet Soluble Magnesium (Mg) | 2010/12/21 | <5 | | mg/L | |
| | | Wet Soluble Potassium (K) | 2010/12/21 | <20 | | mg/L | |
| | | Wet Soluble Sodium (Na) | 2010/12/21 | <5 | | mg/L | |
| | RPD [Z08711-02] | Wet Soluble Sulphur (S) | 2010/12/21 | <30 | | mg/L | |
| | | Wet Soluble Calcium (Ca) | 2010/12/21 | 1 | | % | 30 |
| | | Wet Soluble Magnesium (Mg) | 2010/12/21 | NC | | % | 30 |
| | | Wet Soluble Potassium (K) | 2010/12/21 | NC | | % | 30 |
| | | Wet Soluble Sodium (Na) | 2010/12/21 | 0.5 | | % | 30 |
| | | Wet Soluble Sulphur (S) | 2010/12/21 | NC | | % | 30 |
| 4519272 KL | QC Standard | (C6-C10) | 2010/12/21 | | 96 | % | 60 - 140 |
| | Method Blank | (C6-C10) | 2010/12/21 | <10 | | mg/kg | |
| | RPD | F1 (C06-C10) | 2010/12/21 | NC | | % | 50 |
| 4519884 JC9 | Matrix Spike | O-TERPHENYL (sur.) | 2010/12/21 | | 76 | % | 50 - 130 |
| | | F2 (C10-C16 Hydrocarbons) | 2010/12/21 | | 87 | % | 50 - 130 |
| | | F3 (C16-C34 Hydrocarbons) | 2010/12/21 | | 77 | % | 50 - 130 |
| | | F4 (C34-C50 Hydrocarbons) | 2010/12/21 | | 71 | % | 50 - 130 |
| | Spiked Blank | O-TERPHENYL (sur.) | 2010/12/21 | | 98 | % | 50 - 130 |
| | | F2 (C10-C16 Hydrocarbons) | 2010/12/21 | | 99 | % | 80 - 120 |
| | | F3 (C16-C34 Hydrocarbons) | 2010/12/21 | | 105 | % | 80 - 120 |
| | | F4 (C34-C50 Hydrocarbons) | 2010/12/21 | | 106 | % | 80 - 120 |
| | Method Blank | O-TERPHENYL (sur.) | 2010/12/21 | | 94 | % | 50 - 130 |
| | | F2 (C10-C16 Hydrocarbons) | 2010/12/21 | <10 | | mg/kg | |
| | | F3 (C16-C34 Hydrocarbons) | 2010/12/21 | <10 | | mg/kg | |
| | | F4 (C34-C50 Hydrocarbons) | 2010/12/21 | <10 | | mg/kg | |
| | RPD | F2 (C10-C16 Hydrocarbons) | 2010/12/21 | NC | | % | 40 |
| | | F3 (C16-C34 Hydrocarbons) | 2010/12/21 | NC | | % | 40 |
| | | F4 (C34-C50 Hydrocarbons) | 2010/12/21 | NC | | % | 40 |
| | | Reached Baseline at C50 | 2010/12/21 | NC | | % | 50 |
| 4523907 MY4 | Matrix Spike | D10-ANTHRACENE (sur.) | 2010/12/23 | | 93 | % | 60 - 130 |
| | | D12-BENZO(A)PYRENE (sur.) | 2010/12/23 | | 90 | % | 60 - 130 |
| | | D8-ACENAPHTHYLENE (sur.) | 2010/12/23 | | 91 | % | 50 - 130 |
| | | D8-NAPHTHALENE (sur.) | 2010/12/23 | | 83 | % | 50 - 130 |
| | | TERPHENYL-D14 (sur.) | 2010/12/23 | | 92 | % | 60 - 130 |
| | | Naphthalene | 2010/12/23 | | 97 | % | 40 - 130 |
| | | 2-Methylnaphthalene | 2010/12/23 | | 91 | % | 40 - 130 |
| | | Acenaphthylene | 2010/12/23 | | 98 | % | 40 - 130 |
| | | Acenaphthene | 2010/12/23 | | 100 | % | 40 - 130 |
| | | Fluorene | 2010/12/23 | | 105 | % | 40 - 130 |
| | | Phenanthrene | 2010/12/23 | | 102 | % | 40 - 130 |
| | | Anthracene | 2010/12/23 | | 101 | % | 40 - 130 |
| | | Fluoranthene | 2010/12/23 | | 97 | % | 40 - 130 |
| | | Pyrene | 2010/12/23 | | 113 | % | 40 - 130 |
| | | Benzo(a)anthracene | 2010/12/23 | | 102 | % | 40 - 130 |
| | | Chrysene | 2010/12/23 | | 92 | % | 40 - 130 |
| | | Benzo(b&j)fluoranthene | 2010/12/23 | | 106 | % | 40 - 130 |
| | | Benzo(k)fluoranthene | 2010/12/23 | | 96 | % | 40 - 130 |
| | | Benzo(a)pyrene | 2010/12/23 | | 99 | % | 40 - 130 |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/23 | | 96 | % | 40 - 130 |
| | | Dibenz(a,h)anthracene | 2010/12/23 | | 88 | % | 40 - 130 |
| | | Benzo(g,h,i)perylene | 2010/12/23 | | 79 | % | 40 - 130 |
| | Spiked Blank | D10-ANTHRACENE (sur.) | 2010/12/23 | | 97 | % | 60 - 130 |
| | | D12-BENZO(A)PYRENE (sur.) | 2010/12/23 | | 94 | % | 60 - 130 |

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Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | |
|------------------------|------------------------|---------------------------|-----------------------------|------------------|----------|-------|-----------|--|
| 4523907 MY4 | Spiked Blank | D8-ACENAPHTHYLENE (sur.) | 2010/12/23 | | 88 | % | 50 - 130 | |
| | | D8-NAPHTHALENE (sur.) | 2010/12/23 | | 88 | % | 50 - 130 | |
| | | TERPHENYL-D14 (sur.) | 2010/12/23 | | 90 | % | 60 - 130 | |
| | | Naphthalene | 2010/12/23 | | 92 | % | 40 - 130 | |
| | | 2-Methylnaphthalene | 2010/12/23 | | 79 | % | 40 - 130 | |
| | | Acenaphthylene | 2010/12/23 | | 92 | % | 40 - 130 | |
| | | Acenaphthene | 2010/12/23 | | 99 | % | 40 - 130 | |
| | | Fluorene | 2010/12/23 | | 97 | % | 40 - 130 | |
| | | Phenanthrene | 2010/12/23 | | 99 | % | 40 - 130 | |
| | | Anthracene | 2010/12/23 | | 116 | % | 40 - 130 | |
| | | Fluoranthene | 2010/12/23 | | 101 | % | 40 - 130 | |
| | | Pyrene | 2010/12/23 | | 116 | % | 40 - 130 | |
| | | Benzo(a)anthracene | 2010/12/23 | | 97 | % | 40 - 130 | |
| | | Chrysene | 2010/12/23 | | 97 | % | 40 - 130 | |
| | | Benzo(b&j)fluoranthene | 2010/12/23 | | 107 | % | 40 - 130 | |
| | | Benzo(k)fluoranthene | 2010/12/23 | | 108 | % | 40 - 130 | |
| | | Benzo(a)pyrene | 2010/12/23 | | 103 | % | 40 - 130 | |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/23 | | 98 | % | 40 - 130 | |
| | | Dibenz(a,h)anthracene | 2010/12/23 | | 92 | % | 40 - 130 | |
| | | Benzo(g,h,i)perylene | 2010/12/23 | | 105 | % | 40 - 130 | |
| | Method Blank | D10-ANTHRACENE (sur.) | 2010/12/23 | | 90 | % | 60 - 130 | |
| | | D12-BENZO(A)PYRENE (sur.) | 2010/12/23 | | 88 | % | 60 - 130 | |
| | | D8-ACENAPHTHYLENE (sur.) | 2010/12/23 | | 86 | % | 50 - 130 | |
| | | D8-NAPHTHALENE (sur.) | 2010/12/23 | | 87 | % | 50 - 130 | |
| | | TERPHENYL-D14 (sur.) | 2010/12/23 | | 88 | % | 60 - 130 | |
| | | Naphthalene | 2010/12/23 | <0.001 | | | mg/kg | |
| | | 2-Methylnaphthalene | 2010/12/23 | <0.001 | | | mg/kg | |
| | | Acenaphthylene | 2010/12/23 | <0.001 | | | mg/kg | |
| | | Acenaphthene | 2010/12/23 | <0.001 | | | mg/kg | |
| | | Fluorene | 2010/12/23 | <0.001 | | | mg/kg | |
| | | Phenanthrene | 2010/12/23 | 0.001, RDL=0.001 | | | mg/kg | |
| | | Anthracene | 2010/12/23 | <0.001 | | | mg/kg | |
| Fluoranthene | 2010/12/23 | <0.001 | | | mg/kg | | | |
| Pyrene | 2010/12/23 | <0.001 | | | mg/kg | | | |
| Benzo(a)anthracene | 2010/12/23 | <0.001 | | | mg/kg | | | |
| Chrysene | 2010/12/23 | <0.001 | | | mg/kg | | | |
| Benzo(b&j)fluoranthene | 2010/12/23 | <0.001 | | | mg/kg | | | |
| Benzo(k)fluoranthene | 2010/12/23 | <0.001 | | | mg/kg | | | |
| Benzo(a)pyrene | 2010/12/23 | <0.001 | | | mg/kg | | | |
| Indeno(1,2,3-cd)pyrene | 2010/12/23 | <0.002 | | | mg/kg | | | |
| Dibenz(a,h)anthracene | 2010/12/23 | <0.002 | | | mg/kg | | | |
| Benzo(g,h,i)perylene | 2010/12/23 | <0.002 | | | mg/kg | | | |
| RPD | Naphthalene | 2010/12/23 | NC (3) | | | % | 50 | |
| | 2-Methylnaphthalene | 2010/12/23 | NC | | | % | 50 | |
| | Acenaphthylene | 2010/12/23 | NC | | | % | 50 | |
| | Acenaphthene | 2010/12/23 | NC | | | % | 50 | |
| | Fluorene | 2010/12/23 | NC | | | % | 50 | |
| | Phenanthrene | 2010/12/23 | 112 (6) | | | % | 50 | |
| | Anthracene | 2010/12/23 | NC (6) | | | % | 50 | |
| | Fluoranthene | 2010/12/23 | 86.6 (6) | | | % | 50 | |
| | Pyrene | 2010/12/23 | 123 (6) | | | % | 50 | |
| | Benzo(a)anthracene | 2010/12/23 | 94.8 (6) | | | % | 50 | |
| | Chrysene | 2010/12/23 | 91.7 (6) | | | % | 50 | |
| | Benzo(b&j)fluoranthene | 2010/12/23 | 82.8 (6) | | | % | 50 | |
| Benzo(k)fluoranthene | 2010/12/23 | NC (6) | | | % | 50 | | |

SNC LAVALIN ENVIRONMENT INC.
 Attention: Scott Irwin
 Client Project #: 504542 COL 15
 P.O. #: ES10SL01
 Site Reference: COL 15, CFB ESQUIMALT

Quality Assurance Report (Continued)

Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | | |
|------------------------|-----------------|---------------------------|-----------------------------|---------------------------|------------|-------|-----------|---|----------|
| 4523907 MY4 | RPD | Benzo(a)pyrene | 2010/12/23 | 115 (6) | | % | 50 | | |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/23 | NC (6) | | % | 50 | | |
| | | Dibenz(a,h)anthracene | 2010/12/23 | NC | | % | 50 | | |
| | | Benzo(g,h,i)perylene | 2010/12/23 | NC (6) | | % | 50 | | |
| 4526992 BB3 | Method Blank | Soluble Chloride (Cl) | 2010/12/22 | <5 | | mg/L | | | |
| | RPD [Z08711-02] | Soluble Chloride (Cl) | 2010/12/22 | NC | | % | 30 | | |
| 4526993 BB3 | Method Blank | Soluble Sulphate (SO4) | 2010/12/22 | <10 | | mg/L | | | |
| | RPD [Z08711-02] | Soluble Sulphate (SO4) | 2010/12/22 | NC | | % | 30 | | |
| 4527779 TG1 | Matrix Spike | D10-ANTHRACENE (sur.) | 2010/12/24 | | 100 | % | 60 - 130 | | |
| | | D12-BENZO(A)PYRENE (sur.) | 2010/12/24 | | 97 | % | 60 - 130 | | |
| | | D8-ACENAPHTHYLENE (sur.) | 2010/12/24 | | 101 | % | 50 - 130 | | |
| | | D8-NAPHTHALENE (sur.) | 2010/12/24 | | 90 | % | 50 - 130 | | |
| | | TERPHENYL-D14 (sur.) | 2010/12/24 | | 104 | % | 60 - 130 | | |
| | | Naphthalene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | 2-Methylnaphthalene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Acenaphthylene | 2010/12/24 | | 94 | % | 40 - 130 | | |
| | | Acenaphthene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Fluorene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Phenanthrene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Anthracene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Fluoranthene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Pyrene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Benzo(a)anthracene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Chrysene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Benzo(b&j)fluoranthene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Benzo(k)fluoranthene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Benzo(a)pyrene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Dibenz(a,h)anthracene | 2010/12/24 | | 84 | % | 40 - 130 | | |
| | | Benzo(g,h,i)perylene | 2010/12/24 | | NC | % | 40 - 130 | | |
| | | Spiked Blank | | D10-ANTHRACENE (sur.) | 2010/12/23 | | 99 | % | 60 - 130 |
| | | | | D12-BENZO(A)PYRENE (sur.) | 2010/12/23 | | 98 | % | 60 - 130 |
| | | | | D8-ACENAPHTHYLENE (sur.) | 2010/12/23 | | 94 | % | 50 - 130 |
| | | | | D8-NAPHTHALENE (sur.) | 2010/12/23 | | 91 | % | 50 - 130 |
| | | | | TERPHENYL-D14 (sur.) | 2010/12/23 | | 98 | % | 60 - 130 |
| | | | | Naphthalene | 2010/12/23 | | 99 | % | 40 - 130 |
| | | | | 2-Methylnaphthalene | 2010/12/23 | | 91 | % | 40 - 130 |
| | | | | Acenaphthylene | 2010/12/23 | | 102 | % | 40 - 130 |
| | | | | Acenaphthene | 2010/12/23 | | 105 | % | 40 - 130 |
| | | | | Fluorene | 2010/12/23 | | 103 | % | 40 - 130 |
| | | | | Phenanthrene | 2010/12/23 | | 102 | % | 40 - 130 |
| | | | | Anthracene | 2010/12/23 | | 104 | % | 40 - 130 |
| | | | | Fluoranthene | 2010/12/23 | | 104 | % | 40 - 130 |
| | | | | Pyrene | 2010/12/23 | | 106 | % | 40 - 130 |
| | | | | Benzo(a)anthracene | 2010/12/23 | | 96 | % | 40 - 130 |
| | | | | Chrysene | 2010/12/23 | | 94 | % | 40 - 130 |
| | | | | Benzo(b&j)fluoranthene | 2010/12/23 | | 94 | % | 40 - 130 |
| | | | | Benzo(k)fluoranthene | 2010/12/23 | | 114 | % | 40 - 130 |
| Benzo(a)pyrene | 2010/12/23 | | | | 104 | % | 40 - 130 | | |
| Indeno(1,2,3-cd)pyrene | 2010/12/23 | | | | 97 | % | 40 - 130 | | |
| Dibenz(a,h)anthracene | 2010/12/23 | | | | 88 | % | 40 - 130 | | |
| Benzo(g,h,i)perylene | 2010/12/23 | | | | 97 | % | 40 - 130 | | |
| Method Blank | | | | D10-ANTHRACENE (sur.) | 2010/12/23 | | 99 | % | 60 - 130 |
| | | | | D12-BENZO(A)PYRENE (sur.) | 2010/12/23 | | 87 | % | 60 - 130 |
| | | | | D8-ACENAPHTHYLENE (sur.) | 2010/12/23 | | 93 | % | 50 - 130 |

SNC LAVALIN ENVIRONMENT INC.
 Attention: Scott Irwin
 Client Project #: 504542 COL 15
 P.O. #: ES10SL01
 Site Reference: COL 15, CFB ESQUIMALT

Quality Assurance Report (Continued)

Maxxam Job Number: VB0C2249

| QA/QC Batch | QC Type | Parameter | Date Analyzed | Value | Recovery | Units | QC Limits |
|-------------|-----------------|------------------------|---------------|----------|----------|-------|-----------|
| 4527779 TG1 | Method Blank | D8-NAPHTHALENE (sur.) | 2010/12/23 | | 93 | % | 50 - 130 |
| | | TERPHENYL-D14 (sur.) | 2010/12/23 | | 96 | % | 60 - 130 |
| | | Naphthalene | 2010/12/23 | <0.001 | | mg/kg | |
| | | 2-Methylnaphthalene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Acenaphthylene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Acenaphthene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Fluorene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Phenanthrene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Anthracene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Fluoranthene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Pyrene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Benzo(a)anthracene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Chrysene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Benzo(b&j)fluoranthene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Benzo(k)fluoranthene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Benzo(a)pyrene | 2010/12/23 | <0.001 | | mg/kg | |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/23 | <0.002 | | mg/kg | |
| | | Dibenz(a,h)anthracene | 2010/12/23 | <0.002 | | mg/kg | |
| | | Benzo(g,h,i)perylene | 2010/12/23 | <0.002 | | mg/kg | |
| | RPD | Naphthalene | 2010/12/24 | 9.6 (7) | | % | 50 |
| | | 2-Methylnaphthalene | 2010/12/24 | 0.4 (7) | | % | 50 |
| | | Acenaphthylene | 2010/12/24 | 9.2 | | % | 50 |
| | | Acenaphthene | 2010/12/24 | 10.9 (7) | | % | 50 |
| | | Fluorene | 2010/12/24 | 5.5 (8) | | % | 50 |
| | | Phenanthrene | 2010/12/24 | 4.9 (7) | | % | 50 |
| | | Anthracene | 2010/12/24 | 14.2 | | % | 50 |
| | | Fluoranthene | 2010/12/24 | 27.7 (7) | | % | 50 |
| | | Pyrene | 2010/12/24 | 30.0 (7) | | % | 50 |
| | | Benzo(a)anthracene | 2010/12/24 | 27.2 | | % | 50 |
| | | Chrysene | 2010/12/24 | 39.9 | | % | 50 |
| | | Benzo(b&j)fluoranthene | 2010/12/24 | 21.4 | | % | 50 |
| | | Benzo(k)fluoranthene | 2010/12/24 | 25.0 | | % | 50 |
| | | Benzo(a)pyrene | 2010/12/24 | 28.5 | | % | 50 |
| | | Indeno(1,2,3-cd)pyrene | 2010/12/24 | 21.0 | | % | 50 |
| | | Dibenz(a,h)anthracene | 2010/12/24 | 21.8 | | % | 50 |
| | | Benzo(g,h,i)perylene | 2010/12/24 | 20.4 | | % | 50 |
| 4547791 ML6 | RPD [Z08763-01] | 200 mesh (>.075 mm) | 2011/01/07 | 8.5 | | % | 30 |
| | | 200 mesh (<.075 mm) | 2011/01/07 | 21.5 | | % | 30 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

- (1) possible blank sand contamination.
- (2) Suspected lab contamination from blank sand.
- (3) RDL raised due to sample matrix interference.
- (4) possible contamination from blank sand.
- (5) LCS outside acceptance criteria (10% of analytes failure allowed)
- (6) Duplicate RPD above control limit - Non-homogenous sample - Increased variability of results

SNC LAVALIN ENVIRONMENT INC.
 Attention: Scott Irwin
 Client Project #: 504542 COL 15
 P.O. #: ES10SL01
 Site Reference: COL 15, CFB ESQUIMALT

Quality Assurance Report (Continued)

Maxxam Job Number: VB0C2249

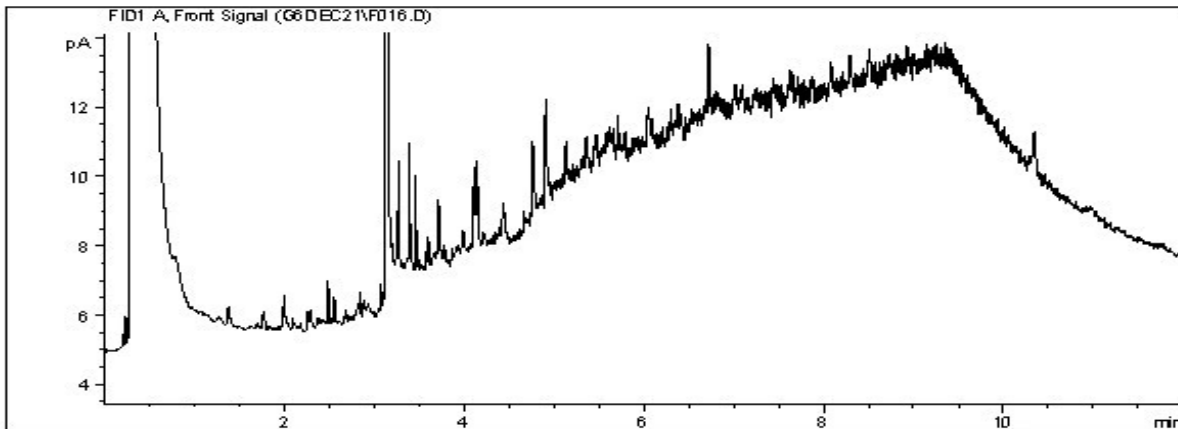
| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|--|---------|------------------------------------|--------------------------------|-------|----------|-------|-----------|
| (7) | | RDL raised due to sample dilution. | | | | | |
| (8) | | RDL raised due to sample dilution. | | | | | |
| Matrix spike recovery outside control limit - High target compounds - No impact, spike Invalid | | | | | | | |

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

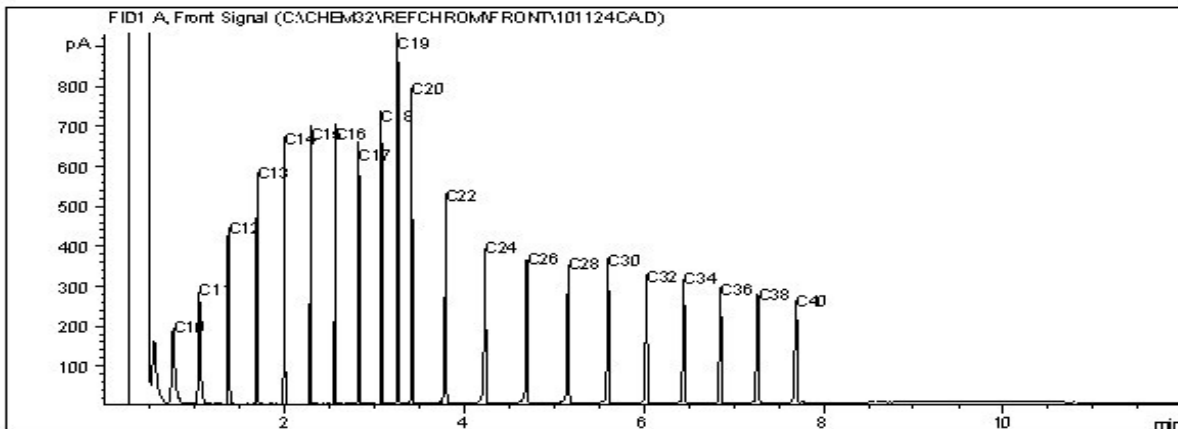
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08649

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-8-1-101214

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

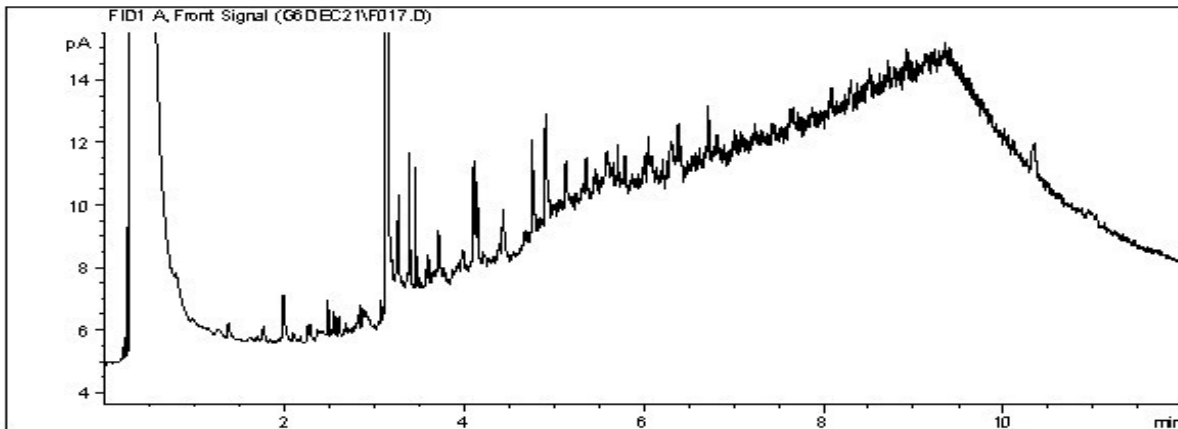
| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

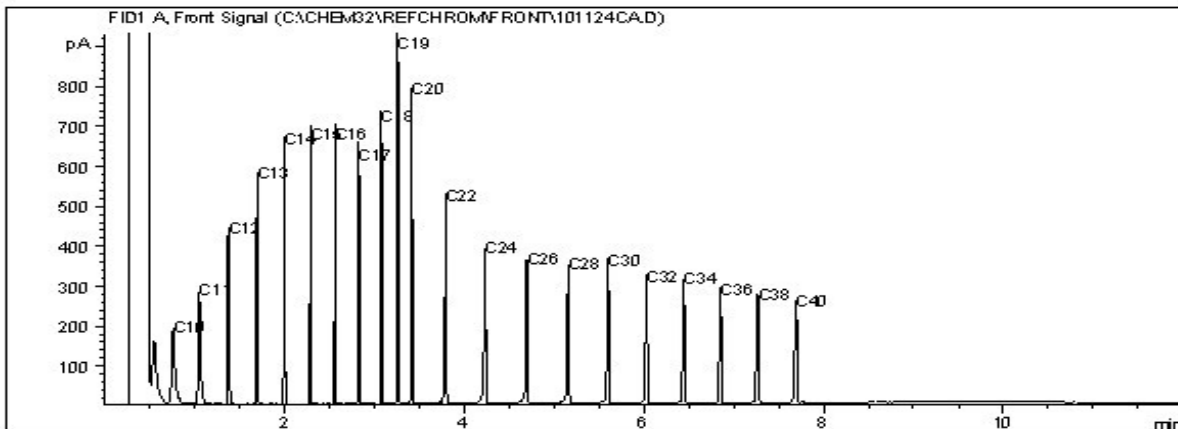
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08650

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-8-2-101214

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

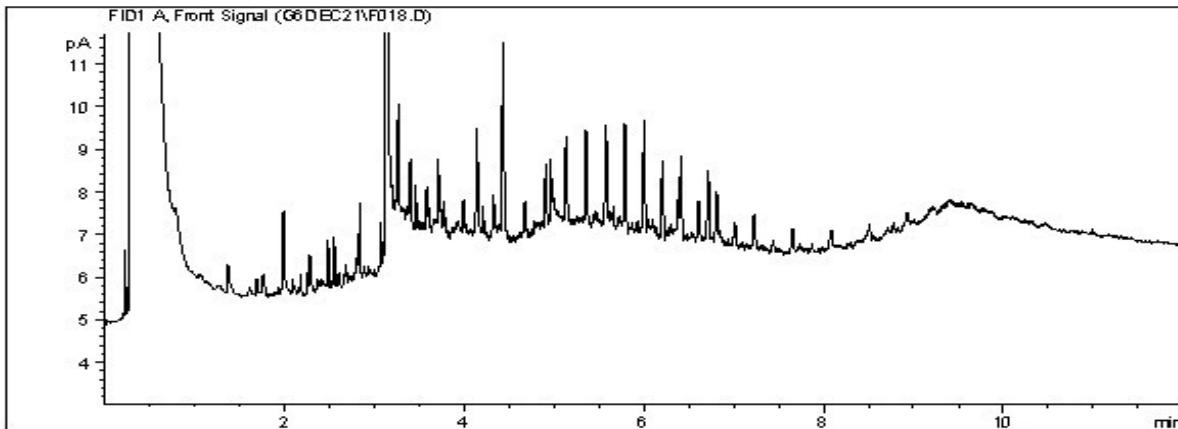
| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

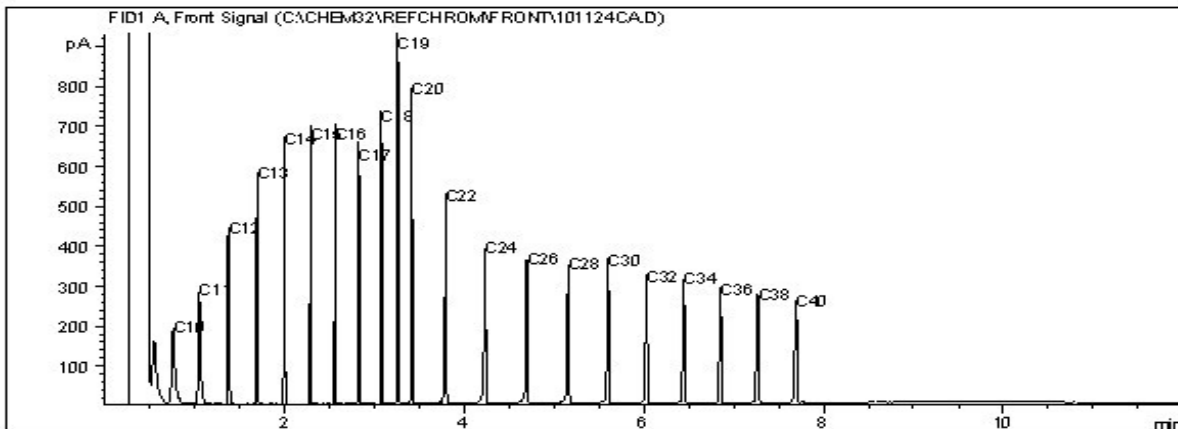
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08658

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-10-2-101214

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

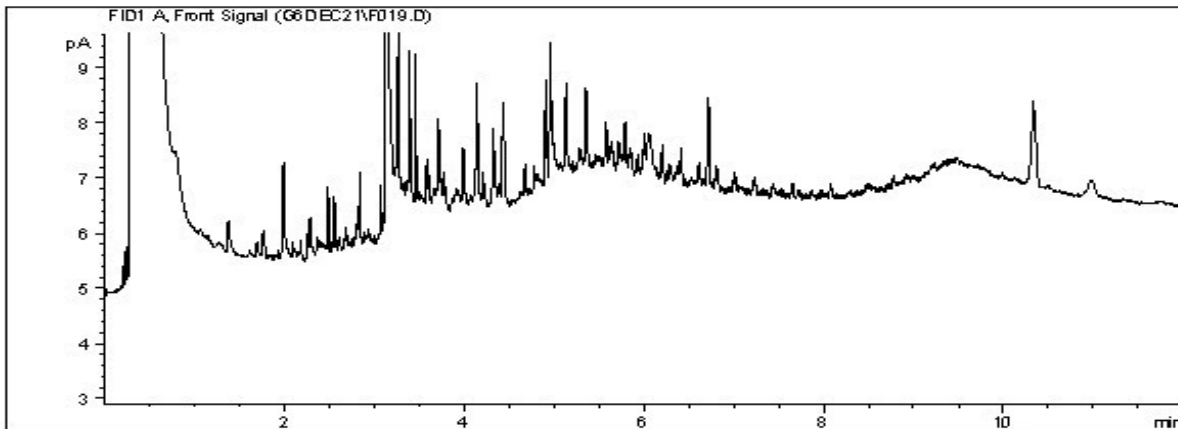
| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

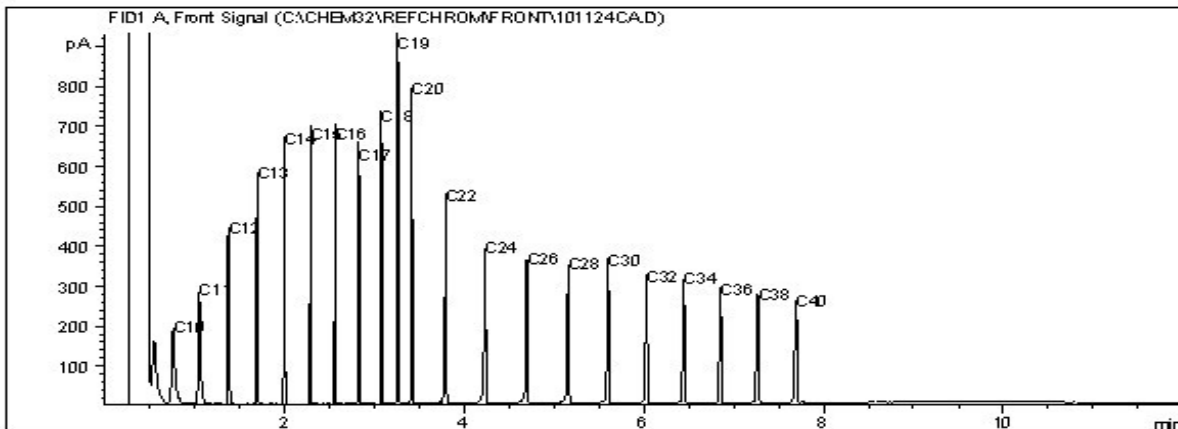
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08695

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-21-1-101214

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

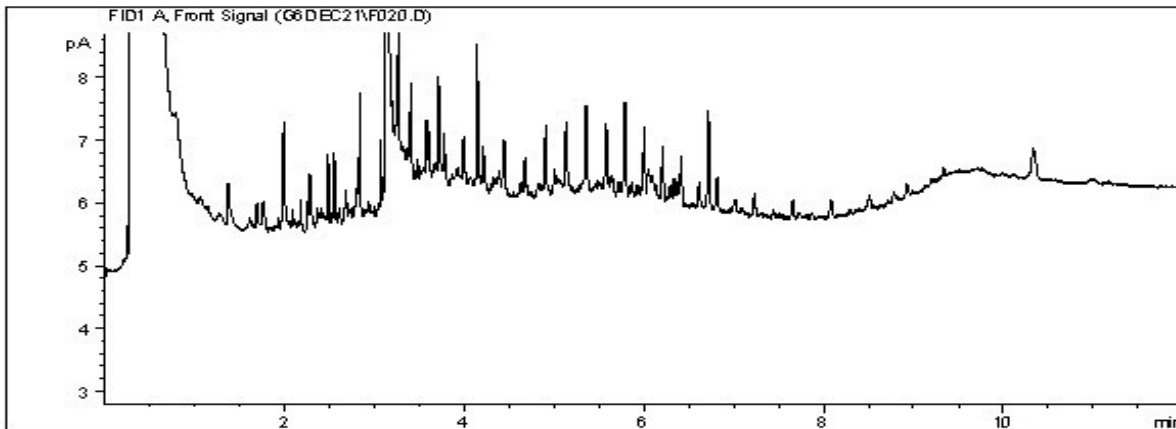
| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

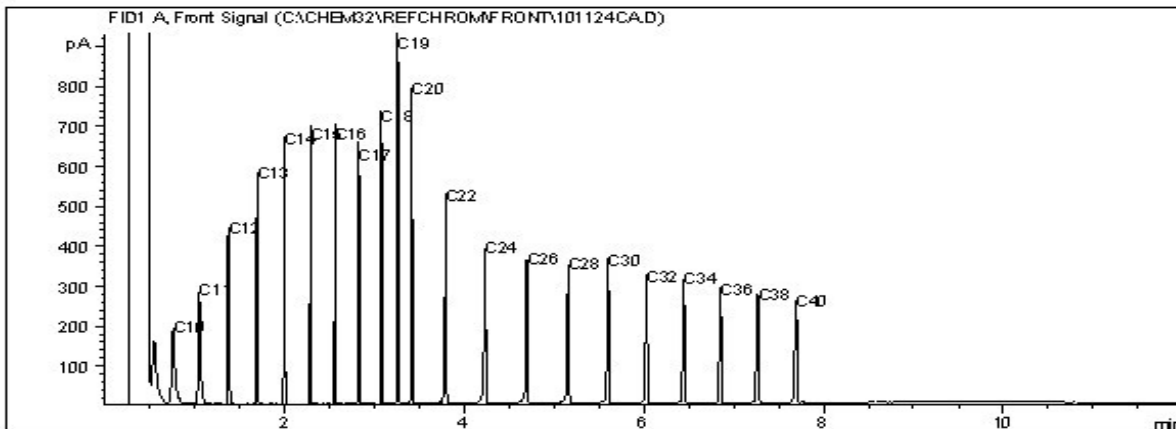
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08701

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-23-2-101215

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

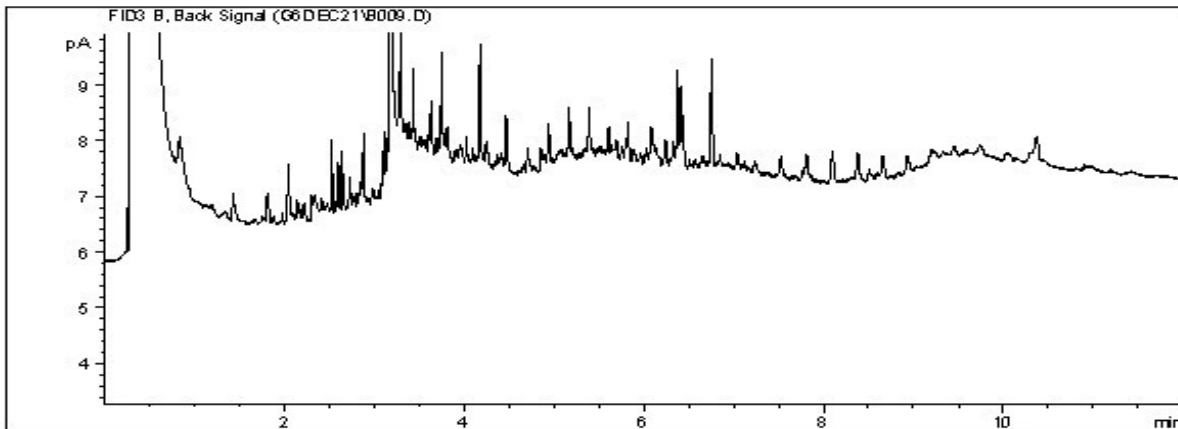
| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

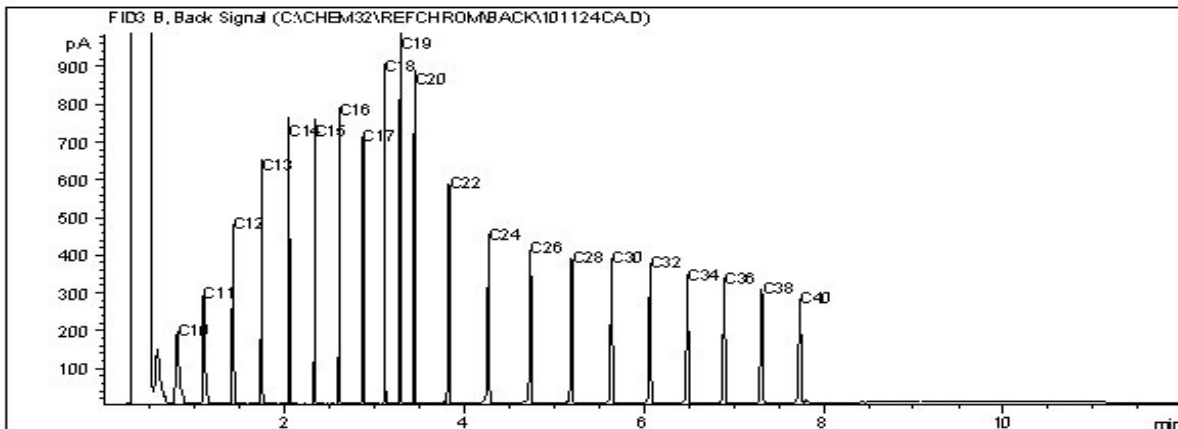
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08711

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-25-2-101215

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

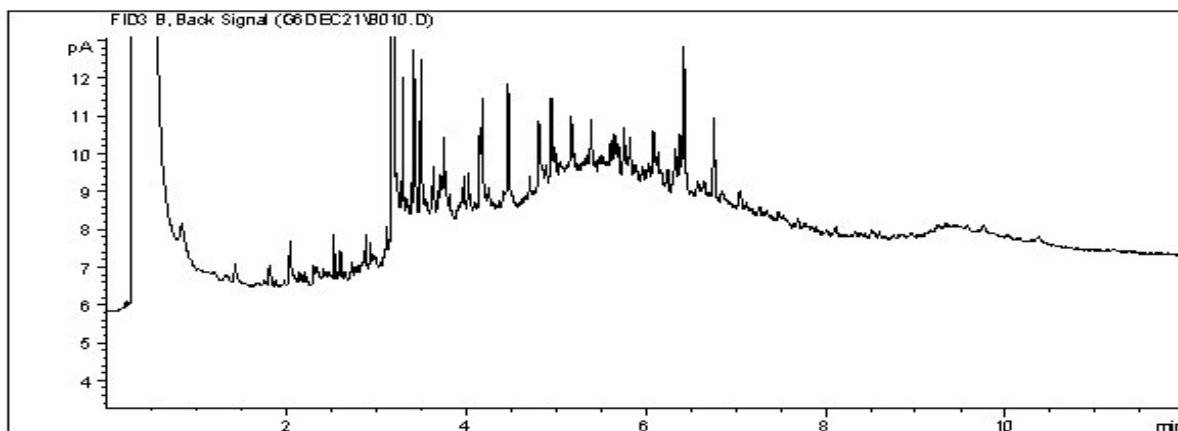
| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

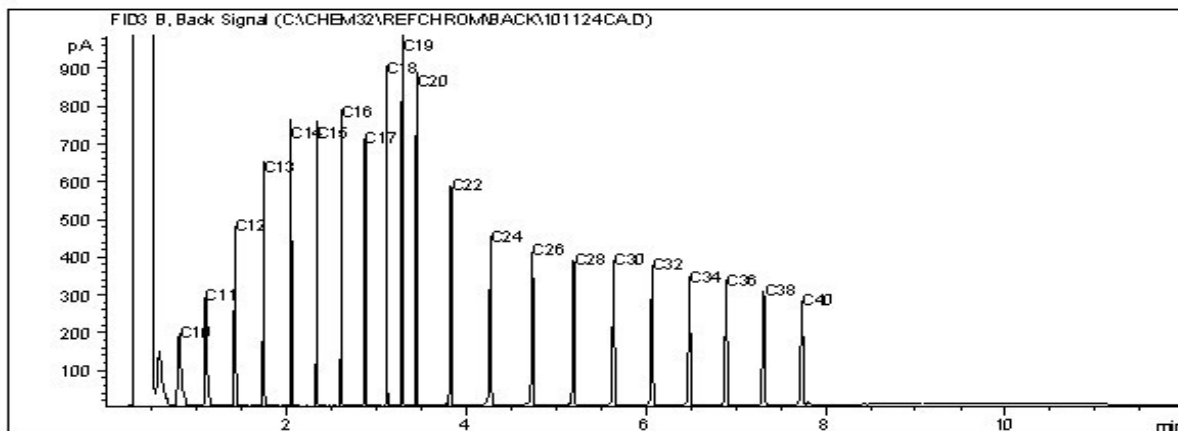
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08725

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-27-3-101215

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

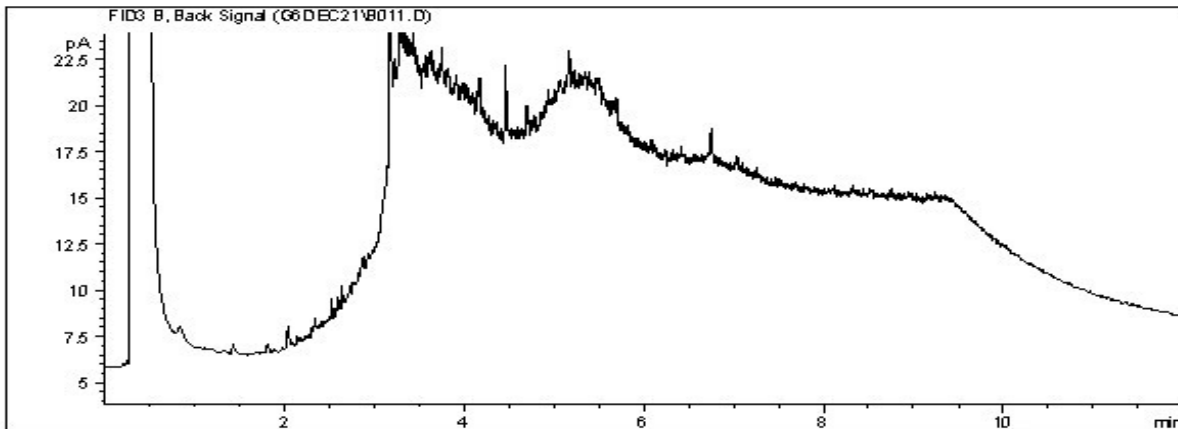
| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

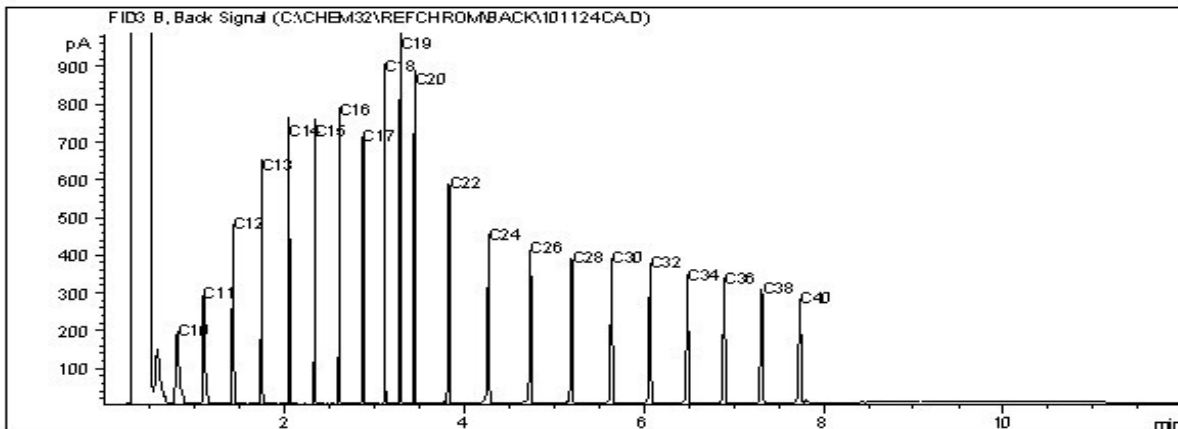
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08742

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-30-2-101215

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

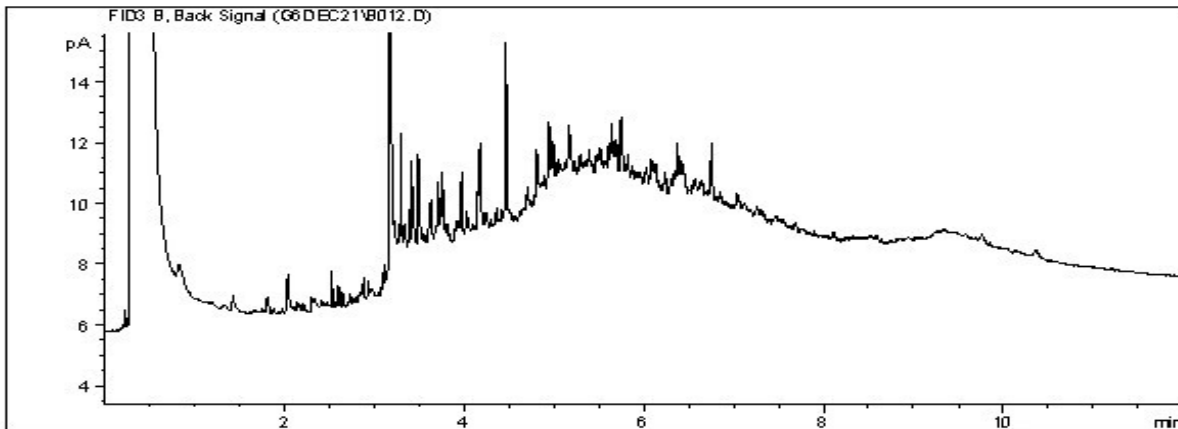
| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

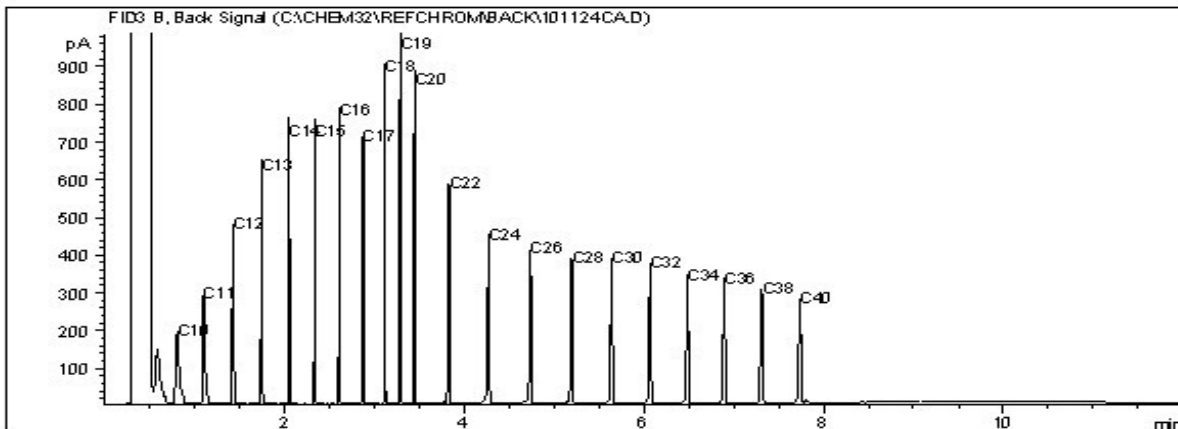
Report Date: 2011/01/07
 Maxxam Job #: B0C2249
 Maxxam Sample: Z08762

SNC LAVALIN ENVIRONMENT INC.
 Client Project #: 504542 COL 15
 Site Reference: COL 15, CFB ESQUIMALT
 Client ID: TP10-33-2-101215

CCME Hydrocarbons (F2-F4 in soil) Chromatogram



Carbon Range Distribution - Reference Chromatogram



TYPICAL PRODUCT CARBON NUMBER RANGES

| | | | |
|-----------|----------|-------------------|-----------|
| Gasoline: | C4 - C12 | Diesel: | C8 - C22 |
| Varsol: | C8 - C12 | Lubricating Oils: | C20 - C40 |
| Kerosene: | C7 - C16 | Crude Oils: | C3 - C60+ |

Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your Project #: B0C2249
Your C.O.C. #: n/a

Attention: LEE CARD

Maxxam Analytics
4606 Canada Way
Burnaby, BC
V5G 1K5

Report Date: 2010/12/24**CERTIFICATE OF ANALYSIS****MAXXAM JOB #: B0I3952****Received: 2010/12/21, 11:52**

Sample Matrix: Soil
Samples Received: 4

| <u>Analyses</u> | <u>Quantity</u> | <u>Date</u> <u>Extracted</u> | <u>Date</u> <u>Analyzed</u> | <u>Laboratory Method</u> | <u>Method</u> <u>Reference</u> |
|----------------------------------|-----------------|---------------------------------|--------------------------------|--------------------------|-----------------------------------|
| Moisture | 4 | N/A | 2010/12/23 | CAM SOP-00445 | McKeague 2nd ed 1978 |
| Polychlorinated Biphenyl in Soil | 4 | 2010/12/21 | 2010/12/22 | CAM SOP-00309 | SW846 8082 |

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

* Results relate only to the items tested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
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Phone# (905) 817-5700 Ext:5818

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Total cover pages: 1

Maxxam Job #: B013952
 Report Date: 2010/12/24

 Maxxam Analytics
 Client Project #: B0C2249

RESULTS OF ANALYSES OF SOIL

| Maxxam ID | | IF6453 | IF6454 | IF6455 | IF6456 | | |
|-------------------|-------|--------------------------|---------------------------|---------------------------|---------------------------|-----|----------|
| Sampling Date | | 2010/12/14 | 2010/12/14 | 2010/12/14 | 2010/12/15 | | |
| | Units | Z08650 \ TP10-8-2-101214 | Z08658 \ TP10-10-2-101214 | Z08695 \ TP10-21-1-101214 | Z08792 \ TP10-33-2-101215 | RDL | QC Batch |
| Inorganics | | | | | | | |
| Moisture | % | 13 | 17 | 17 | 15 | 1 | 2367390 |

POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

| Maxxam ID | | IF6453 | IF6454 | IF6455 | IF6456 | | |
|-------------------------------|-------|--------------------------|---------------------------|---------------------------|---------------------------|------|----------|
| Sampling Date | | 2010/12/14 | 2010/12/14 | 2010/12/14 | 2010/12/15 | | |
| | Units | Z08650 \ TP10-8-2-101214 | Z08658 \ TP10-10-2-101214 | Z08695 \ TP10-21-1-101214 | Z08792 \ TP10-33-2-101215 | RDL | QC Batch |
| PCBs | | | | | | | |
| Aroclor 1016 | ug/g | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 2365673 |
| Aroclor 1221 | ug/g | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 2365673 |
| Aroclor 1232 | ug/g | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 2365673 |
| Aroclor 1242 | ug/g | <0.01 | <0.01 | <0.01 | 0.03 | 0.01 | 2365673 |
| Aroclor 1248 | ug/g | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 2365673 |
| Aroclor 1254 | ug/g | 0.01 | <0.01 | <0.01 | 0.02 | 0.01 | 2365673 |
| Aroclor 1260 | ug/g | <0.01 | <0.01 | <0.01 | 0.04 | 0.01 | 2365673 |
| Aroclor 1262 | ug/g | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 2365673 |
| Aroclor 1268 | ug/g | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 2365673 |
| Total PCB | ug/g | 0.01 | <0.01 | <0.01 | 0.09 | 0.01 | 2365673 |
| Surrogate Recovery (%) | | | | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | % | 73 | 89 | 81 | 90 | | 2365673 |
| Decachlorobiphenyl | % | 80 | 96 | 87 | 94 | | 2365673 |

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

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| | |
|-----------|-------|
| Package 1 | 3.0°C |
|-----------|-------|

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Maxxam Job #: B013952
 Report Date: 2010/12/24

 Maxxam Analytics
 Client Project #: B0C2249

QUALITY ASSURANCE REPORT

| QC Batch | Parameter | Date | Matrix Spike | | Spiked Blank | | Method Blank | | RPD | |
|----------|------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | Units | Value (%) | QC Limits |
| 2365673 | 2,4,5,6-Tetrachloro-m-xylene | 2010/12/22 | 71 | 40 - 130 | 79 | 40 - 130 | 77 | % | | |
| 2365673 | Decachlorobiphenyl | 2010/12/22 | 73 | 40 - 130 | 84 | 40 - 130 | 78 | % | | |
| 2365673 | Aroclor 1260 | 2010/12/22 | 106 | 30 - 130 | 112 | 30 - 130 | <0.01 | ug/g | | |
| 2365673 | Total PCB | 2010/12/22 | 106 | 30 - 130 | 112 | 30 - 130 | <0.01 | ug/g | NC | 50 |
| 2365673 | Aroclor 1016 | 2010/12/22 | | | | | <0.01 | ug/g | | |
| 2365673 | Aroclor 1221 | 2010/12/22 | | | | | <0.01 | ug/g | | |
| 2365673 | Aroclor 1232 | 2010/12/22 | | | | | <0.01 | ug/g | | |
| 2365673 | Aroclor 1242 | 2010/12/22 | | | | | <0.01 | ug/g | | |
| 2365673 | Aroclor 1248 | 2010/12/22 | | | | | <0.01 | ug/g | | |
| 2365673 | Aroclor 1254 | 2010/12/22 | | | | | <0.01 | ug/g | | |
| 2365673 | Aroclor 1262 | 2010/12/22 | | | | | <0.01 | ug/g | | |
| 2365673 | Aroclor 1268 | 2010/12/22 | | | | | <0.01 | ug/g | | |
| 2367390 | Moisture | 2010/12/23 | | | | | | | 2.9 | 20 |

N/A = Not Applicable

RPD = Relative Percent Difference

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.


Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B0I3952

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



CHARLES ANCKER, B.Sc., M.Sc., C.Chem, Senior Analyst



CRISTINA CARRIERE, Scientific Services

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