

**Prospecting, Soil Geochemistry, Airborne Magnetic and  
Radiometric Surveying, and Airphoto-Orthophoto Surveying on  
the Hen Project, White Gold District  
Yukon Territory, Canada**

*Hen 1-108 (YD13122 – YD13230)*

*Hen 109-144 (YD130351-YD130386)*

*Hen 145-424 (YD94733-YD95012)*

*Hen 425-430 (YD130387-YD130392)*

*Hen 433-476 (YD130395-YD130438)*

**NTS MAP-SHEETS 115O/06**

**63°21'52"N 139°22'47"W**

**E581035 / N7027215**

**NAD83, Zone 7N**

**DAWSON MINING DISTRICT**

**Work completed: June 1, 2011 to September 15, 2011**

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## **1 Introduction**

On March 2<sup>nd</sup>, 2011 Ethos Gold Corp. (“Ethos”) acquired an option to purchase the Hen property (“Hen”) from Shawn Ryan (70%) and Wildwood Explorations Inc. (30%) in consideration of certain cash commitments, shares and reservation of a 2% net smelter return royalty (“NSR”).

### **1.1 Scope of Work**

This report describes the exploration history, geology and mineral potential of the Hen property, including work performed by Ethos Gold Corp during the period June 1, 2011 to September 15, 2011. A review of historical industry work and other information within the immediate and surrounding region is included. Regional geology, associated data and current exploration information have been reviewed to determine the geological setting and potential for mineralization.

### **1.2 Work Program**

The objective of the 2011 exploration program on the Hen property was to evaluate gold-in-soil geochemical anomalies identified previously by Shawn Ryan. The exploration methodology was intended to find bulk-tonnage gold deposits with a notional 3 M oz size; thus the targeting is coarse and intended to quickly provide evidence of widespread gold mineralization.

The 2011 exploration on the Hen property included soil sampling, prospecting and rock sampling, airborne magnetic, radiometric and air-photo imagery. A total of 76 man-days of exploration work was completed during the 2011 field season. Ethos established a ‘base camp’ in Dawson at the Bonanza Gold Motel for the summer, where between 5 and 10 personnel were based. Ethos contracted Heli-Dynamics who provided either a Bell 206 Long Ranger or a Bell 407 (or both) based at the “Druid” helipad during 2011. Property access for prospecting and rock sampling was provided via helicopter flights from Dawson to the targeted areas within each property. The airborne magnetics and radiometric survey was based in Kaminak Gold Corporation’s “Coffee” camp and used a Northern Air Support Long Ranger helicopter. The soil survey was contracted to Ground Truth Exploration and based in a series of locally mobile field camps on the Hen property and supported by TransNorth A-Star helicopter from the Thistle airstrip. The airphoto survey was based in Dawson and used a Piper Cherokee fixed-wing airplane to complete the photography.

### **1.3 Terms, Definitions & Units**

The following terms and abbreviations are used within this report:

- Distances are reported in meters (m), kilometres (km) and feet (ft).
- Costs are reported in Canadian dollars (CAN\$).
- Locational information is reported in both Latitude-Longitude and UTM grid (Easting, Northing) NAD83, Zone 7N.
- Geochemical data is reported in parts per million (ppm) the equivalent to grams per tonne (g/t) and ounces per tonne (oz/t), as well as parts per billion (ppb).
- QAQC refers to quality assurance and quality control.
- Geological ages include: Ka (thousand) and Ma (million) years ago.
- Elemental abbreviations include: antimony (Sb), arsenic (As), bismuth (Bi), copper (Cu), gold (Au), iron (Fe) and silver (Ag).



- Mineralogical abbreviations include: pyrite (Pyr) and pyrrhotite (Po) [iron sulphides], limonite (Lim) [hydrated iron oxide], magnetite (Mag) [iron oxide], chalcopyrite (Cpy) [copper sulphide] and molybdenite (Mo) [molybdenum sulphide].
- MINFILE showing refers to documented mineral occurrences compiled by the Yukon Geological Survey.
- Directional units include: north (N), east (E), south (S), west (W) and may be used in combination (*i.e.*, NNE for north-northeast).

#### **1.4 Source Documents**

The following sources of information were used in writing this technical report and include private company data and information available on the public domain:

- Review of published and scientific papers on geology on the region and on mineral deposit types
- Review of geological maps and reports completed by the Yukon Geological Survey and the Geological Survey of Canada
- Research on the Yukon Geological Survey's MINFILE database (<http://servlet.gov.yk.ca/ygsmin/index.do>) and Map Viewer (<http://maps.gov.yk.ca/imf.jsp?site=YGS>)
- Review of previously written assessment and YMIP reports at the Energy, Mines & Resources Library (<http://www.emr.gov.yk.ca/library/>)
- Review of publically available data, including news releases, on Ethos Gold Corp. ([www.ethosgold.com/s/home.asp](http://www.ethosgold.com/s/home.asp))
- Work directed and performed by the author on the Hen Claims during June to mid-September, 2011.

#### **1.5 Geotechnical Information**

Ethos uses NAD83 Zone 7 coordinates for geographic positioning system ("GPS"). Coordinates are expressed in NAD83 Zone 7 unless specified otherwise. Ethos employees and consultants are provided with Garmin "GPSMap 62s" model GPS devices, which can automatically record continuous route tracks as well as set waypoint information. The Garmin GPS devices are assumed accurate to within 5 meters horizontally and within 10 meters on elevation. Cameras were synchronized with clocks on individuals GPS units so that photographs could be geo-tagged using Garmin Basemap software. Tracks were continuously recorded daily for mapping and prospecting surveys, waypoints entered with notes where features of interest were encountered, and photographs tagged to individual waypoint and sample locations.

#### **1.6 Limitations, Restrictions and Assumptions**

The author has assumed that the previous and documented work on the property is valid and has not encountered any information to discredit such work.

#### **1.7 Reliance on Other Experts**

The author has relied in part upon work and reports completed by others in previous years and in the preparation of this technical report. The authors' opinion contained herein is based on information obtained to date, which in turn reflect various technical and economic conditions; given the nature of

the mining industry, these conditions can change rapidly over relatively short periods of time. Furthermore, thorough checks to confirm results of such reports and work has not been completed and unless otherwise stated the author has not independently confirmed the accuracy of the data. To the authors knowledge there are no known litigations potentially affecting the Hen project. Title documents and option agreements were reviewed for this study, this report does not constitute, nor is it intended to represent a legal opinion as to the validity of the title. The project is an early stage exploration property and therefore, the company has created limited surface disturbances.

### 1.8 Qualified Person and Participating Personnel

Mr. Peter Tallman, P.Geo., Chief Operating Officer (COO) of Ethos Gold Corporation (Vancouver, British Columbia) examined the property, geology and mineral potential to make recommendations for the next phase of exploration work in order. Mr. Tallman directed and worked on the property during the period June 1 to September 15, 2011.

## 2 Property Location & Description

### 2.1 Location & Land Tenure

The 9,639-hectare property is located in west-central Yukon in the White Gold district and is in early exploration phase. The Hen project (NTS map sheet 1150/06), centered at a latitude of 63°21'52"N and a longitude of 139°22'47"W lies approximately 70 km south of Dawson City which is 536 km north of Whitehorse via a paved highway. The claim block straddles the placer drainage of lower Henderson Creek just north of the confluence of the Yukon and Stewart Rivers and comprises the Hen 1-476 claims (refer to Table 1: Hen Property Claim Summary, below). The project falls within the Dawson Mining District. The boundaries of the property have not been legally surveyed. Refer to Appendix I. Mineral Tenure of the Hen for a detailed statement of claims.

**Table: 1. Hen Property Claim Summary**

Claim Group Name	Claim No. (from)	Claim No. (to)	Grant No. (from)	Grant No. (to)	NTS	Expiry Date*	Total No.
Hen	1	108	YD13122	YD13230	1150/06	02/04/12	108
Hen	109	144	YD130351	YD130386	1150/06	12/21/11	36
Hen	145	424	YD94733	YD95012	1150/06	09/30/11	280
Hen	425	430	YD130387	YD130392	1150/06	12/21/11	6
Hen	433	476	YD130395	YD130438	1150/06	12/21/11	44
						Total Claims-	474
						Approximate Total Area-	9600 ha

\*Based upon acceptance of this report

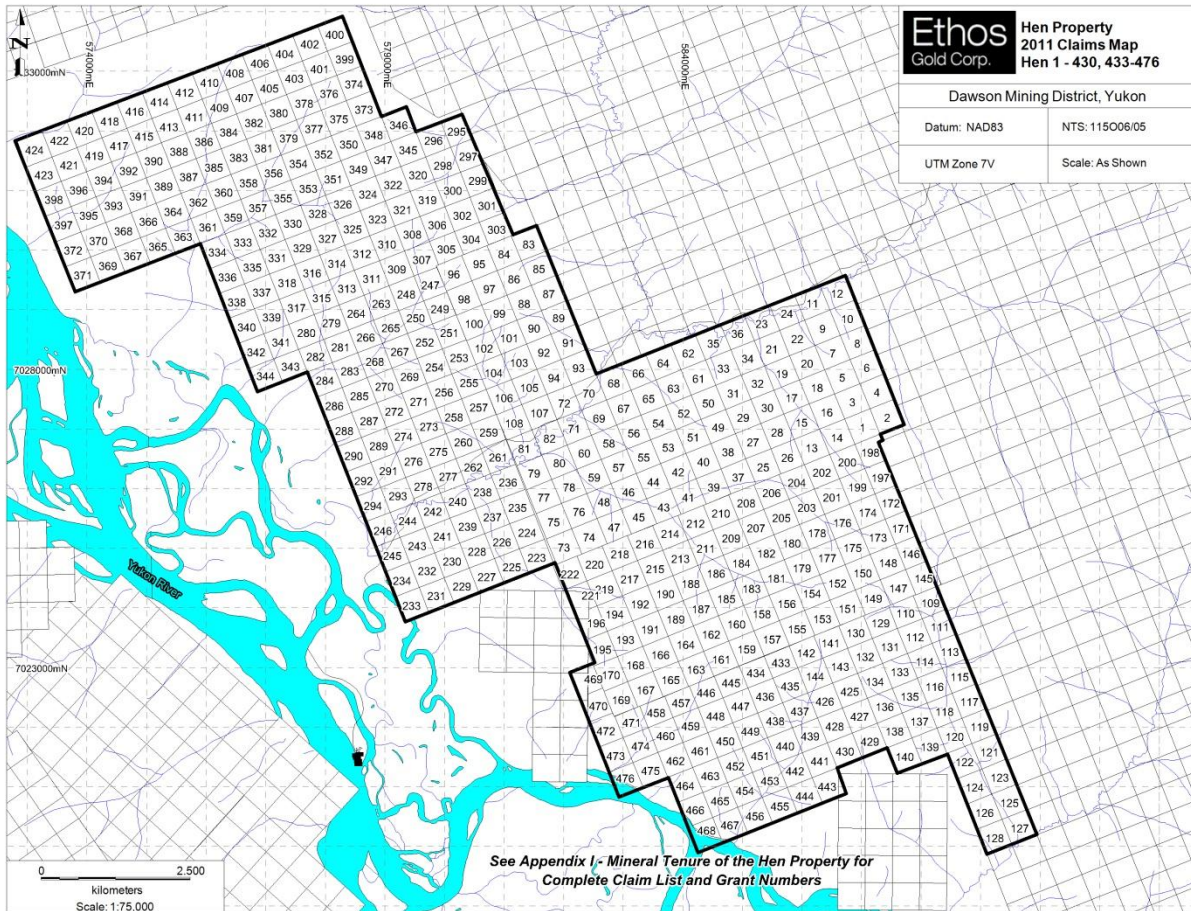


Figure 1. Hen Property Claims Map



Photo 1. View of the Yukon River, Yukon looking west from the Hen Property

## **2.2 Underlying Agreements**

Ethos has rights to acquire the Hen claims (100%) from Mr. Shawn Ryan (70%) and Wildwood Exploration Inc. (30%) of Dawson City, Yukon through an agreement dated March, 2<sup>nd</sup> 2011. The Hen property, consisting of the Hen 1-476 claims, is part of the Hen property option agreement with Ethos Gold Corp. whereby Ethos can earn 100% interest, through a series of staged payments and issuance of shares over four years. The optionors retain a 2% net smelter royalty on mineral production.

The claims are located within the Traditional Territory of the Tr'ondëk Hwëch'in (TH) First Nation. The TH has settled their land claims in the area and no First Nation land settlement occurs within the Hen area. The closest First Nation surveyed land (SFN R-12A) is situated 3 km south of the property. The Hen claims are situated on Crown Land and therefore the mineral claims fall under the jurisdiction of the Yukon Government. Surface rights would have to be obtained from the government should the property go into development.

As required by the Yukon Quartz Mining Act, a mineral claim holder must perform \$100 assessment work per claim, per year and document this work to maintain the title, or otherwise pay \$100 in lieu per claim, per year to maintain title to the claims.

Early exploration activities do not require permitting, however significant drilling, trenching, blasting, line cutting and excavating may require a Mining Lands Use Permit (MLUP) that must be approved under the Yukon Environmental Socioeconomic Assessment Act (YESAA). To the author's knowledge, the property does not cover any environmental liabilities.

## **3 Accessibility, Local Resources, Infrastructure, Physiography & Climate**

### **3.1 Access, Local Resources & Infrastructure**

The project is centered at a latitude of 63°21'52"N and a longitude of 139°22'47"W (E581035, N7027215 NAD 83, Zone 7N). The claims are 4WD road accessible via the Klondike Gold Fields to placer operations along Henderson Creek from Dawson City (70 km), which is 536 km north from Whitehorse via a paved highway. Alternatively, the property can be accessed by fixed wing to the Henderson Airstrip (E621600, N6989945 NAD 83, Zone 7N), followed by a short (~9 km) helicopter flight to the claims. In 2011, reconnaissance prospecting was conducted via helicopter direct from Dawson. A barge landing is present on the Yukon River at the mouth of Henderson Creek, which allows access to placer mine roads along Henderson Creek. The Hen property covers ~100 km<sup>2</sup> centered on lower Henderson Creek which has current and historic placer gold mining. The area was made famous by Jack London who had a cabin on Henderson Creek during the Klondike Gold Rush.

Dawson City, home of the historic 1896-1899 Klondike Gold Rush has approximately 1300 residents and draws nearly 60,000 visitors each year. Main industries in Dawson City are tourism and placer mining. Heavy equipment repair and rental, a lumber mill, freighting and trucking companies and a mining oriented labour force is available for contract exploration and mining work. An airport with air service to Whitehorse and Fairbanks, Alaska and several helicopter company bases are present providing transportation. Town facilities include a health center, grocery stores, a police station, service stations (tire repair and propane sales), welding and machine shops, accommodation and restaurants.





Figure 2. Hen Property Location Map

### 3.2 Physiography & Climate

The Hen property area covers low rolling hills within the Dawson Range on the unglaciated Yukon Plateau. Elevations range from 1200' (366 m) around the Yukon River to 3200' (975 m) in the eastern claim region. Henderson Creek and its tributaries and the south and southwesterly flowing tributaries of the Stewart and the Yukon Rivers drain the Hen project area.

Vegetation is typical boreal forest - white spruce, birch, poplar and black spruce, which was burned by a forest fire approximately 10 years ago. The climate is characterized by continental subarctic conditions with average temperatures ranging from 15.6°C (60°F) in July to -26.7°C (-16°F) in January. The area has a northern interior climate with moderate precipitation (200 mm of rain and 160 mm of snow). Permafrost is common, especially on the north- and west-facing slopes. Rock exposure is poor, existing along creeks, small cliffs and ridgetops and along some slopes as talus.

## 4 Property History

The Hen project region straddles the placer drainage of lower Henderson Creek, a significant current and historical gold placer stream. Henderson Creek was made famous by American author Jack London who had a cabin on left fork of the creek (located ~1 km upstream of Ethos' present-day Hen property) during the Klondike Gold Rush. Jack London staked his claim October 6<sup>th</sup> 1897, and filed Placer Mining Claim Number 54 "ascending the left fork of Henderson Creek" on November 5<sup>th</sup> 1897 in Dawson City, Yukon Territory, Canada. In 1968-69 the cabin was taken apart and two identical cabins were constructed, each having half of the original logs; one was erected in Dawson City, Yukon and the other in Jack London Square, Oakland, California (see *Photo* below).



*Photo 2: The above signature was found on a log above the upper bunk on the back wall of the Henderson Creek cabin. It says, "Jack London. Miner, author, Jan 27, 1898." (Dick North).*

The Hen property covers the Yukon MINFILE 'Henderson' (1150 168) occurrence copper-gold anomaly. Modern exploration in the claim region began in 2003 and was increased over the 2004 and 2005 exploration seasons with more extensive geochemical sampling (499 soil and 13 rock samples). A total of 642 historical soil samples were collected on the property outlining a 500 X 100 m copper anomaly ( $\leq 701$  ppm) and three significant gold ( $\leq 318$  ppb)  $\pm$  arsenic ( $\leq 389$  ppm)  $\pm$  antimony ( $\leq 8$  ppm Sb; Dawson, 2006 & Zuran, 2005). In 2007, Underworld Resources defined the Golden Saddle deposit located 20 km south (now owned and operated by Kinross Gold Corporation). As a result of the Golden Saddle discovery, a modern-day "gold rush" has ensued in the region.

The property history summarized in *Table 2* is based upon information from the YGS's MINFILE capsule 1150 168 (Henderson); Deklerk (*compiler*), 2011), 'Mineral Industry Reports', various 'Yukon Exploration and Geology' and assessment reports.

**Table 2. Hen Property – Work History**

2002	The Henderson occurrence originally staked by S. Ryan as Hen 1-60 (YC21990), 61-98 (YC22251), 103-132 (YC22291), 139-148 (YC22321) and 155-302 claims (YC22331) based on the results of a low-level airborne aeromagnetic survey which highlighted a northwesterly trending aeromagnetic high. Ryan immediately optioned the claims to Copper Ridge Explorations Inc. as part of the Lucky Joe (MINFILE 1150 051) option agreement (Deklerk, 2011).
2003	Copper Ridge Explorations Inc. options the Hen claims to Kennecott Canada Exploration Inc. whom carried out reconnaissance soil sampling and prospecting program which outlined moderate copper, molybdenite and iron spot anomalies (Hulstein, 2004).
2004-2005	The claims were returned to Copper Ridge who performed a large, grid-based soil sampling reconnaissance program which outlined a 500 X 100 m copper anomaly ( $\leq 701$ ppm) and three significant gold ( $\leq 318$ ppb) $\pm$ arsenic ( $\leq 389$ ppm) $\pm$ antimony ( $\leq 8$ ppm Sb; Dawson, 2006 & Zuran, 2005, Deklerk, 2011).

## 5 Geological Setting

### 5.1 Regional Geology

The project is located on the 1:250,000-scale 1150 (Stewart River) map-sheet, which was completed in 2005 by Gordey and Ryan (Geology, Stewart River area, 115N, 115) and part of 115J; GSC Open-File 4970). The claims cover NTS map-sheet 1150/6, (also Stewart River), which has not been mapped at 1:50,000-scale to date.

The property occurs within the Yukon-Tanana terrane (YTT), which underlies much of central and western Yukon. Its history and tectonic evolution, particularly prior to mid-Mesozoic time, has been largely obscured by younger magmatism and tectonism. The YTT is primarily a product of episodic continental arc magmatism, forming a sequence of accreted pericratonic terranes that form a large portion of the Omineca Belt. The terrane underlies part of the Tintina gold belt and hosts gold deposits related to Mesozoic intrusions, including the Sonora Gulch gold deposit and the Casino copper-gold-molybdenum porphyry, located southeast of the Coffee project (Bennett *et al.*, 2009). The widespread YTT is defined by metamorphosed and deformed metasedimentary and metavolcanic rocks that were accreted along foliation-parallel thrust faults and later deformed in the late Paleozoic, creating multiple penetrative rock fabrics. In the Late Cretaceous the Dawson Range intrusions (felsic stocks and related rhyolite dykes) cross cut the aforementioned stratigraphy.

The claims cover a portion of the unglaciated Yukon Plateau on the edge of the Dawson Range, bound by the northwest-striking crustal-scale Tintina and Denali faults. These are trans-current dextral faults located northeast and southwest of the property respectively. The YTT is represented in the Hen property area by Devonian to Mississippian-aged Nasina Assemblage (410-323 Ma, DMN<sub>2,3</sub>) and the Pelly Gneiss Suite (360-340 Ma, DMqPW; see *Table 3. Regional Geological Units*). Regionally, these units are intruded by Jurassic and Mid-Cretaceous granitoid bodies and smaller related felsic stocks.

Mortenson (1996) suggests that the granitoids are associated with Early Jurassic regional thrust imbrication and Early Cretaceous normal faulting.

**Table 3. Regional Geological Units** (Gordey, S.P. and Makepeace, A.J. (compilers), 2003).

<i>Unit</i>	<i>Age</i>	<i>Rock Type</i>
Pelly Gneiss Suite (DMqPW)	Late Devonian and Mississippian (360-340 Ma)	Foliated equigranular medium-grained muscovite quartz monzonite; moderately to strongly foliated K-feldspar augen-bearing quartz monzonitic to granitic gneiss (S. Fiftymile Batholith, Mt. Burnham Orthogneiss).
Nasina Assemblage (DMN <sub>2</sub> )	Devonian and Mississippian (410-323 Ma)	Quartzite, micaceous quartzite, quartz muscovite (± chlorite, feldspar-augen) schist and minor metaconglomerate and metagrit (but may locally include significant Klondike Schist).
Nasina Assemblage (DMN <sub>3</sub> )	Devonian and Mississippian (410-323 Ma)	Quartzite, micaceous quartzite, quartz muscovite (+/- chlorite; +/- feldspar augen) schist, and minor metaconglomerate and metagrit (as in DMN <sub>1</sub> ), but may locally include significant Nisling Assemblage.

## 5.2 Property Geology

Colluvium veneer is the most common cover on the Hen property, averaging ~1-2 m-thick, conforming to bedrock topography. Rock exposure is restricted to ridges, small cliffs and creek bottoms, representing ~5% of the property.

The YTT is represented in the area of interest by supracrustal Devonian to Mississippian-aged intermediate to mafic orthogneiss (DMogt), lesser felsic orthogneiss (DMogg), a central amphibolite horizon (DMa), and minor metasiliciclastic rocks (DMps, DMq). The central amphibolite horizon, described by Gordey and Ryan (2002) as an amphibolite schist and gneiss consisting of metabasite that is probably derived from mafic to intermediate volcanic or volcanoclastic rock. A marble horizon (DMc), interlayered with felsic schist, occurs near the junction of Henderson and North Henderson Creeks (Pautler, 2011), which may have been derived from pure to impure limestone associated with calc-silicate schist derived from calcareous metapelite (Hulstein, 2003). A Cretaceous-aged feldspar-porphyry intrusion was located in 2005 intruding the central amphibolite horizon within the Hen 'Mid' soil anomaly.

**Table 4. Property Geological Units** (Gordey, S.P. and Ryan, J.J, 2005).

<i>Unit</i>	<i>Age</i>	<i>Rock Type</i>
DMogg	Late Devonian and Mississippian (363-343 Ma)	Orthogneiss: DMogg, pink to orange K-feldspar rich, granitic orthogneiss, commonly with biotite, banded to layered, commonly includes or associated with DMoga



DMogt	Late Devonian and Mississippian (363-343 Ma)	Orthogneiss: DMogt, mainly tonalitic or intermediate to mafic orthogneiss, generally grey, banded to layered, commonly veined; commonly interlayered with amphibolite schist and gneiss, biotite
DMA	Devonian and Mississippian (410-323 Ma)	Amphibolite: amphibolite schist and gneiss; metabasite; probably derived from mafic to intermediate volcanic or volcanoclastic rocks; locally associated with psammite or interlayered with orthogneiss
DMC	Devonian and Mississippian (410-323 Ma)	Marble: marble (metacarbonate) derived from pure to impure limestone; associated calc-silicate schist derived from calcareous metapelite
DMps	Devonian and Mississippian (410-323 Ma)	Quartz-mica schist: undivided metasedimentary rocks dominated by metapsammite, semipelite and metapelite; commonly quartz-garnet-biotite-muscovite schist possibly derived from siliceous siltstone;
DMq	Devonian and Mississippian (410-323 Ma)	Quartzite: banded to massive, grey to white quartzite; apparently clastic in origin, or in part, possibly derived from metachert

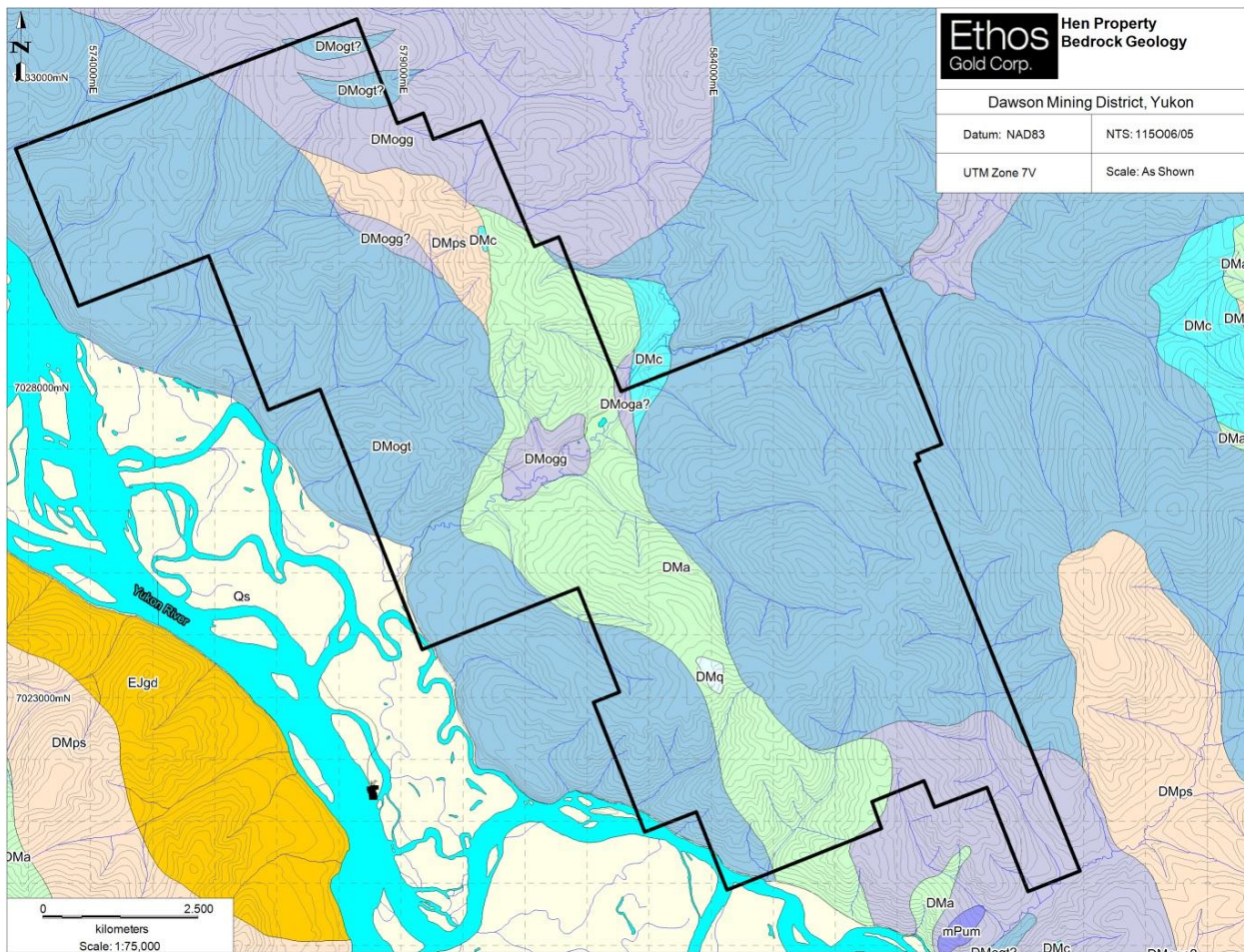


Figure 3. Hen Property Bedrock Geology Map (Gordey, S.P. and Ryan, J.J., 2005)

## 6 Deposit Types & Mineralization

### 6.1 Deposit Type

The Hen property claims cover a portion of the Tintina Gold Belt, a 200 km-wide by 1,200 km-long arcuate metallogenic province that extends from British Columbia through Yukon to Alaska. The province is underlain by rocks of the YTT and is characterized by numerous gold deposits including: Pogo and Fort Knox, True North, Donlin Creek, Shotgun (Alaska), and the White Gold (Yukon). The Pogo property has proven and probable reserves of 3.6 million ounces gold and measured and indicated resources of 1.7 million ounces gold. Donlin Creek has proven and probable reserves of 29.3 million ounces of gold and measured and indicated resources of 6 million ounces gold. Kinross Gold Corporations' White Gold deposit (AKA- Golden Saddle) is located thirty-five kilometers to the northeast. The White Gold deposit contains an indicated resource of 9,797,000 tonnes grading 3.2 g/t gold (1,005,000 ounces), primarily mineable by open pit methods using a cutoff of 0.5 g/t Au for the open pit and 2.0 g/t Au for underground (Weiershäuser *et al.*, 2010). The deposit has additional inferred resources of 9,391,000 tonnes grading 1.91 g/t gold (578,000 ounces) (Weiershäuser *et al.*, 2010).

Mineralization on the White Gold property, at the 'Golden Saddle' showing is preferentially hosted within the Devono-Mississippian aged YTT rocks including metamorphosed intrusive rocks (felsic orthogneiss), as well as felsic and mafic metavolcanic rocks. Gold mineralization is associated with quartz veins, stockwork and breccia zones, as well as pyrite veinlets and disseminations, and includes cubic pyrite and visible gold (Paulter, 2011). Mineralization at Golden Saddle is largely structurally-controlled and models for mineralization include epithermal and intrusion related gold. Epithermal textures are evident within the veins and porphyry style alteration is suggestive of a younger intrusion at depth (Paulter, 2011). Penetrative carbonate-sericite-k-feldspar-silica alteration surrounds mineralized zones. The property has multiple mineralized zones, some of which are associated with Permian intrusive rocks, others are hosted by Nasina Assemblage (DMN<sub>3</sub>) and part of the Golden Saddle is hosted by an ultramafic horizon.

At Kaminak Gold Corporations' Coffee project, mineralization is similar to White Gold in that gold is hosted in quartz veins, stockworks and breccia zones. A strong association with gold and pyrite has been established and mineralization is largely structurally controlled and proximal to the Coffee Creek structure. Gold structures on the Coffee project are generally steeply-dipping and cross-cut all rock units; moreover, there is a lack of direct evidence of gold mineralization associated with specific vein or breccia events (Couture, 2011). Host rocks include felsic orthogneiss, an ultramafic horizon and the Cretaceous Coffee Creek granite (Paulter, 2011). Drillcore discoveries from the project include gold grades of 17.1 g/t over 15.5m (Supremo Zone), 1.08 g/t over 83.93m (Latte Zone), 6.3 g/t over 35m (Double Double Zone), 2.21 g/t over 56.75m and 1.92 g/t over 23m (Kona Zone), 2.36 g/t over 18m (Americano Zone) and 5.5g/t over 11m (Connector Zone). Soil sampling, detailed ground magnetic data, aerial photograph interpretation, trenching and drilling data suggest that the gold mineralization is hydrothermal, structurally controlled and that the auriferous structures crosscut all lithologies on the property (Couture, 2011).

The Hen property is considered prospective for near-surface, bulk tonnage intrusion-related to epithermal, structurally-controlled gold mineralization similar to that recently discovered at Coffee and the White Gold deposit. Furthermore, the claims are prospective for copper-gold porphyry mineralization, similar to the Minto Mine of Capstone Mining Corporation and the Lucky Joe drilled prospect of Redtail Metals Corporation.

## 6.2 Mineralization

The Hen claims cover the Henderson MINFILE (1150 168) copper-gold occurrence. The Hen claims cover Henderson Creek, a major past and present placer-gold producing stream. The Hen claims are underlain by a northwesterly-trending aeromagnetic high corresponding to the central amphibolite unit, which is known to host mineralization at the Lucky Joe drilled prospect (MINFILE 1150 051), located 20 km to the north of the central Hen property (Pautler, 2011). The Henderson MINFILE occurrence covers a 500 X 100 m copper soil anomaly (copper  $\geq$  100 ppm), coined 'Hen North', reporting  $\leq$  701 ppm copper. Hen North is located approximately 5 ½ km northwest of the junction of placer-producing Henderson and Henderson North Creeks.

Fine quartz veinlets and minor calc-silicate alteration within marble was reported by Dawson (2006) and Pautler (2011) at E582050, N7029032 near the junction of Henderson and Henderson North Creeks. Furthermore, nearby, Zuran (2005) noted minor pyrrhotite and pyrite mineralization at E581360, N7029439.

Aeromagnetic lows on the claims highlight structures that should be examined for structurally-controlled gold mineralization, a key feature at the Coffee prospect and White Gold deposit.

## 7 2011 Exploration Program

Ethos carried out its first exploration program on the claims over the course of the 2011 field season. The objective of the 2011 exploration program on the Hen property was to evaluate gold-in-soil geochemical anomalies identified by past exploration. Prior to 2011, reconnaissance and grid soil geochemical sampling and prospecting were completed by Copper Ridge Explorations Inc. and Kennecott Canada Exploration Inc. (Hulstein, 2004; Zuran, 2005; and Dawson, 2006). In 2000, the Geological Survey of Canada and the Yukon Geology Program (now the Yukon Geological Survey) conducted a low-level airborne aeromagnetic survey which outlined a northwesterly-trending aeromagnetic high, plausibly outlining the central amphibolite unit, known to host copper-gold mineralization (Shives *et al.*, 2001; Deklerk, 2011).

Exploration in 2011 consisted of soil sampling, limited prospecting and rock sampling, airborne magnetic and radiometric surveying, and acquisition of air-photo imagery and orthophotos. A total of 76 man-days explorative work was completed on the claim block during the program.

### 7.1 Soil Sampling

Ethos contracted Ground Truth Exploration Inc. of Dawson City to complete the soil-sampling component of the exploration program. A total of 642 historical soil samples were collected prior to Ethos engaging explorative work on the property. During the 2011 field season an additional 2,368 ridge-and-spur and grid soil samples were collected (Figure 4), for a total of 3,010 soil samples collected on the Hen claims to date.

The Hen property is unglaciated and, due to the dilutive effect of loess and tephra, a gold geochemical response in soil of 10 ppb gold or higher indicates gold is present. Other gold pathfinder elements such as arsenic and silver also have anomalous responses coincident with gold.



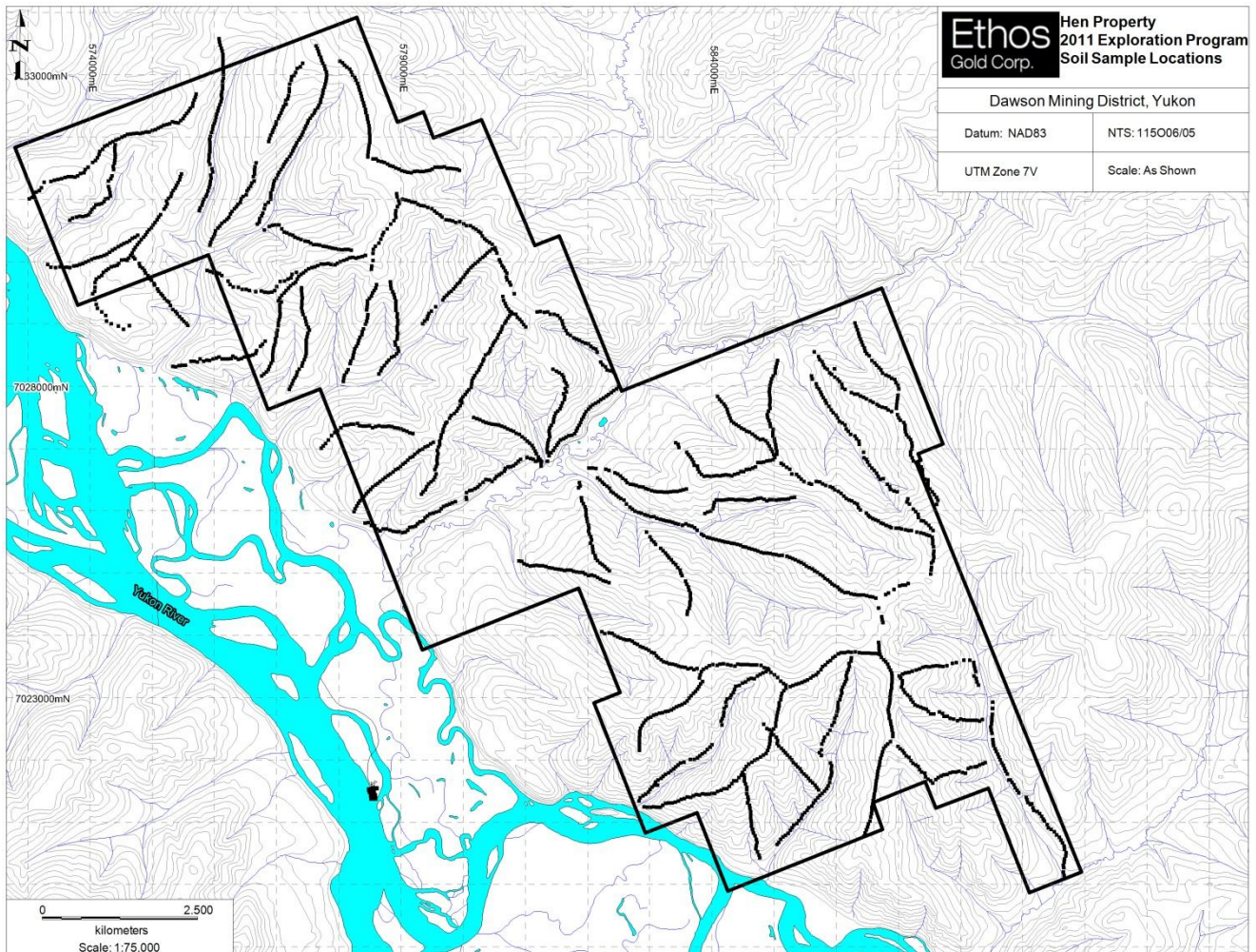


Figure 4. Soil Sample Location Map

The gold-in-soil results indicate sporadic, isolated, and generally low gold anomalies (Figure 5). In general, the individual gold-in-soil anomalies are not associated with multi-element gold-pathfinder soil anomalies.



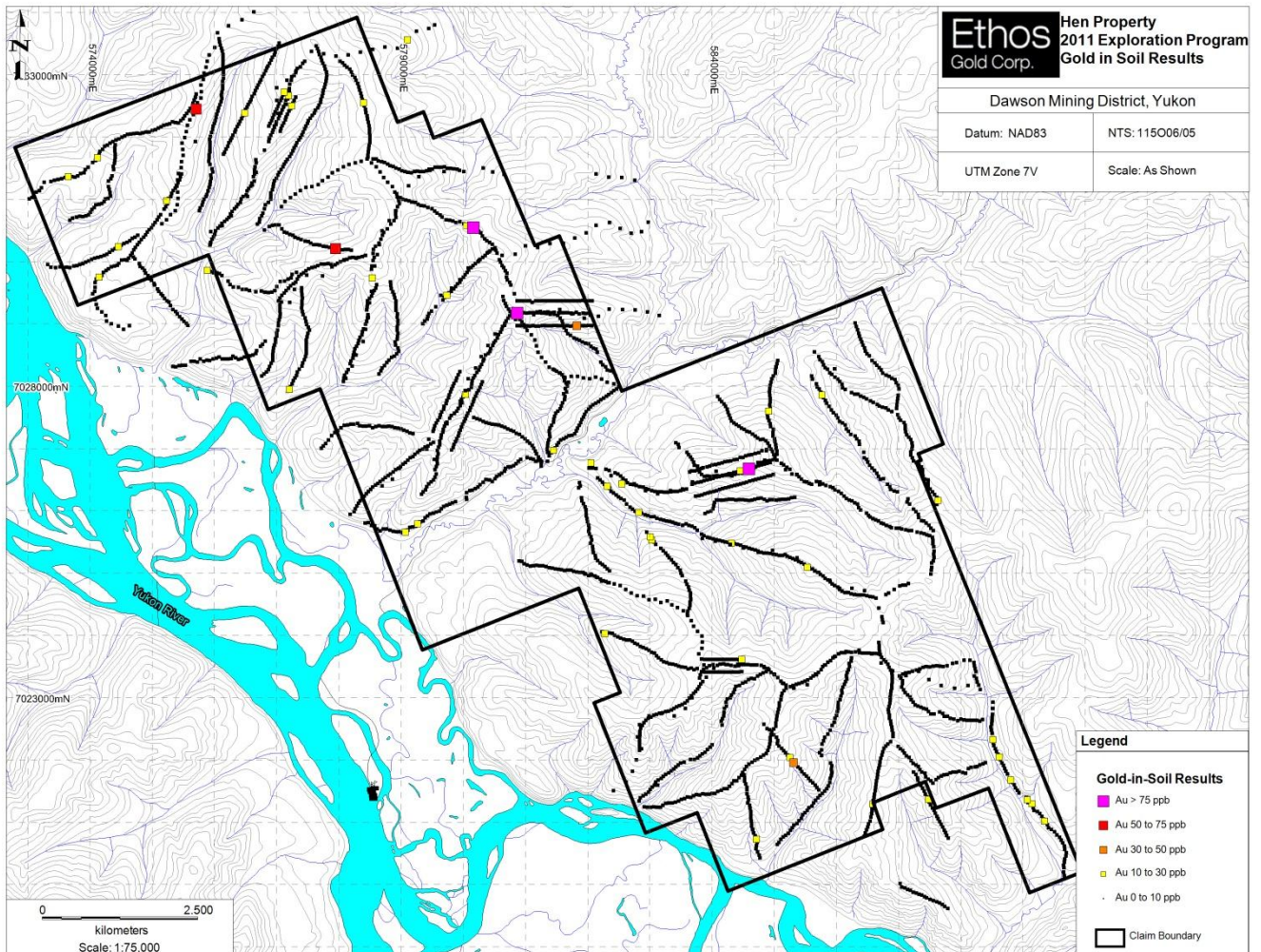


Figure 5. Gold-In-Soil Results

## 7.2 Prospecting

A total of 9 rock samples were collected on the Hen property during the 2011 exploration program (Figure 6). This limited prospecting and geological evaluation was completed prior to receiving the results from the 2011 soil program and airborne geophysics program. Results from the 9 rock sample analyses were not anomalous in gold; only one sample exceeded the 2 ppb Au detection limit and contained 19 ppb Au with 1.5 g/t silver. Rock outcrops in the central portion of the property do support the interpretation of a potentially east-west trending fault structure. (See section on total field magnetic intensity survey).



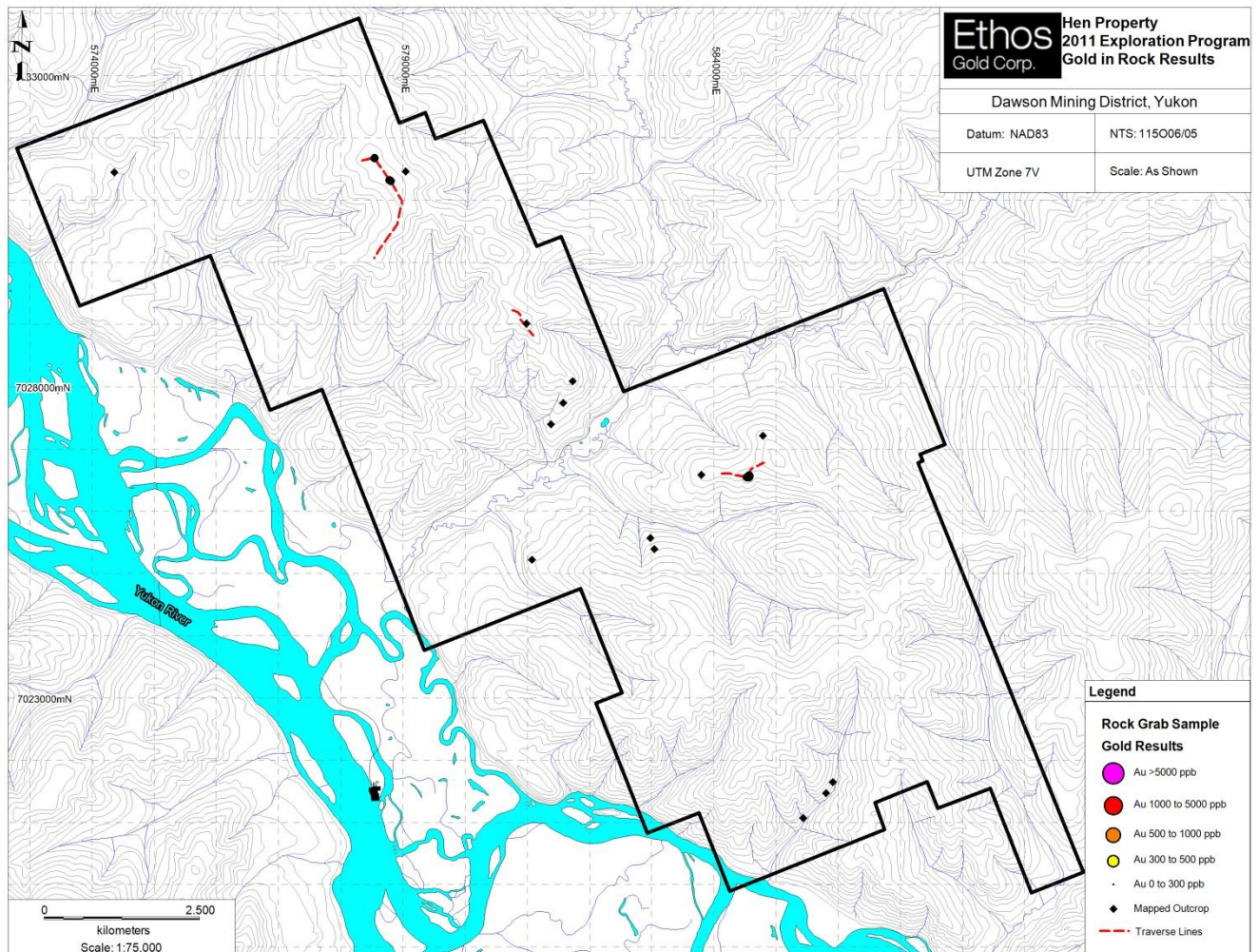


Figure 6. Prospecting Sample Location Map

### 7.3 Airborne Geophysics

During 2011, Ethos’ employed New-Sense Geophysics Limited (“New-Sense”) of Toronto, Ontario to complete 1,222.7 line-kilometers of helicopter magnetic and gamma-ray spectrometric (radiometric) surveying over the Hen property as part of a larger survey covering Ethos’ Betty, Hayes, Bridget, Wolf and Hen properties. Pre-survey calibration flight testing was conducted on the property package began on July 1, 2011. Surveying was completed August 12, 2011 as part of a total survey of 12,499 line kilometers.

The geophysical equipment was comprised of one high-sensitivity Cesium-3 magnetometer mounted in a fixed stinger assembly and a 1024-channel RS-500 spectrometer with four downward looking crystals (total 16 liters) and one upward looking crystal (total 4 liters) mounted in the storage compartment of the aircraft. Airborne ancillary equipment included digital recorders, fluxgate magnetometer, radar altimeter, and global positioning (GPS) receiver. The GPS receiver provided accurate real-time navigation and subsequent flight path recovery. The equipment was mounted on a Bell 206 B3 helicopter chartered from Northern Air Support based in Kelowna, British Columbia. Surface equipment included a

magnetic base station with GPS time synchronization, and a PC-based field workstation which was used to check the data quality and the completeness on a daily basis. Ethos also employed Williams Geophysics Limited (Brian Williams) of Hereford, United Kingdom to monitor the daily flight production, assess the data quality, and provide quality control during the term of the survey. The helicopter and pilot and survey engineer were based at the Coffee Camp operated by, and with permission of, Kaminak Gold Corporation. Ethos contracted JDS Energy and Mining Inc (“JDS”) to install a fuel liner and containment berm sufficient for 120 drums of fuel to complete the entire survey. Ethos obtained 120 drums of Jet A fuel from Whitehorse, YT and delivered it by transport truck to the barge landing operated by JDS at Minto. Ethos contracted the JDS barge to transport the 120 drums of Jet A fuel to Kaminak’s Coffee Camp and store them in the lined berm in early August prior to commencement of the survey. At the end of the contract, the fuel liner was sold to Kaminak.



*Photo 3: Northern Air Support Bell 206 B3 helicopter with magnetometer mounted in a fixed stinger assembly used in survey.*

The technical objective of the survey was to provide high-resolution total field magnetic (Figure 8) and radiometric maps suitable for anomaly delineation, detailed structural evaluation, and identification of lithological trends. The survey was flown at a nominal traverse line spacing of 100 meters with control line (“tie-line”) spacing of 1,000 meters. The traverse lines were flown at 0 degrees or 180 degrees true north. Fully corrected magnetic and radiometric maps were prepared by New-Sense in their Toronto office after the completion of survey activities.

A full description of the survey parameters is included in Appendix VI entitled “Logistics Report for the High Resolution Helicopter Magnetic and Gamma-ray Spectrometric Airborne Geophysical Survey Flown Over Betty/Bridget/Hayes (BBH), Hen, and Wolf Blocks”.

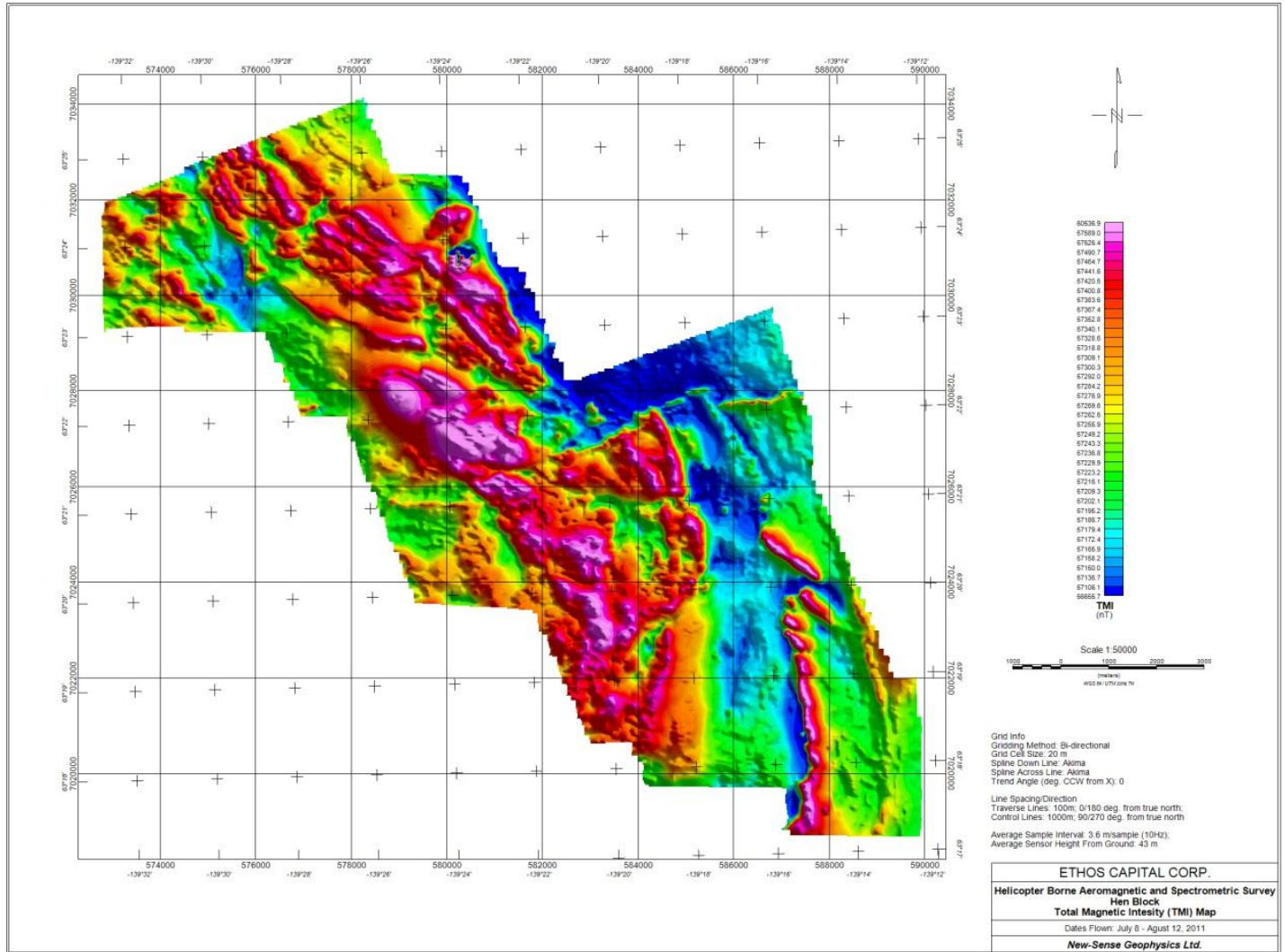


Figure 7. Total Magnetics Intensity Map

Results from airborne magnetics and radiometric surveying are interpreted to indicate the Hen property is transected by potentially significant east-west and northwest-southeast oriented faults. The magnetic-high domain correlates generally with the mapped extent of amphibolite schist and metabasite, however the magnetic intensity indicates this unit is more extensive and extends further to the north.



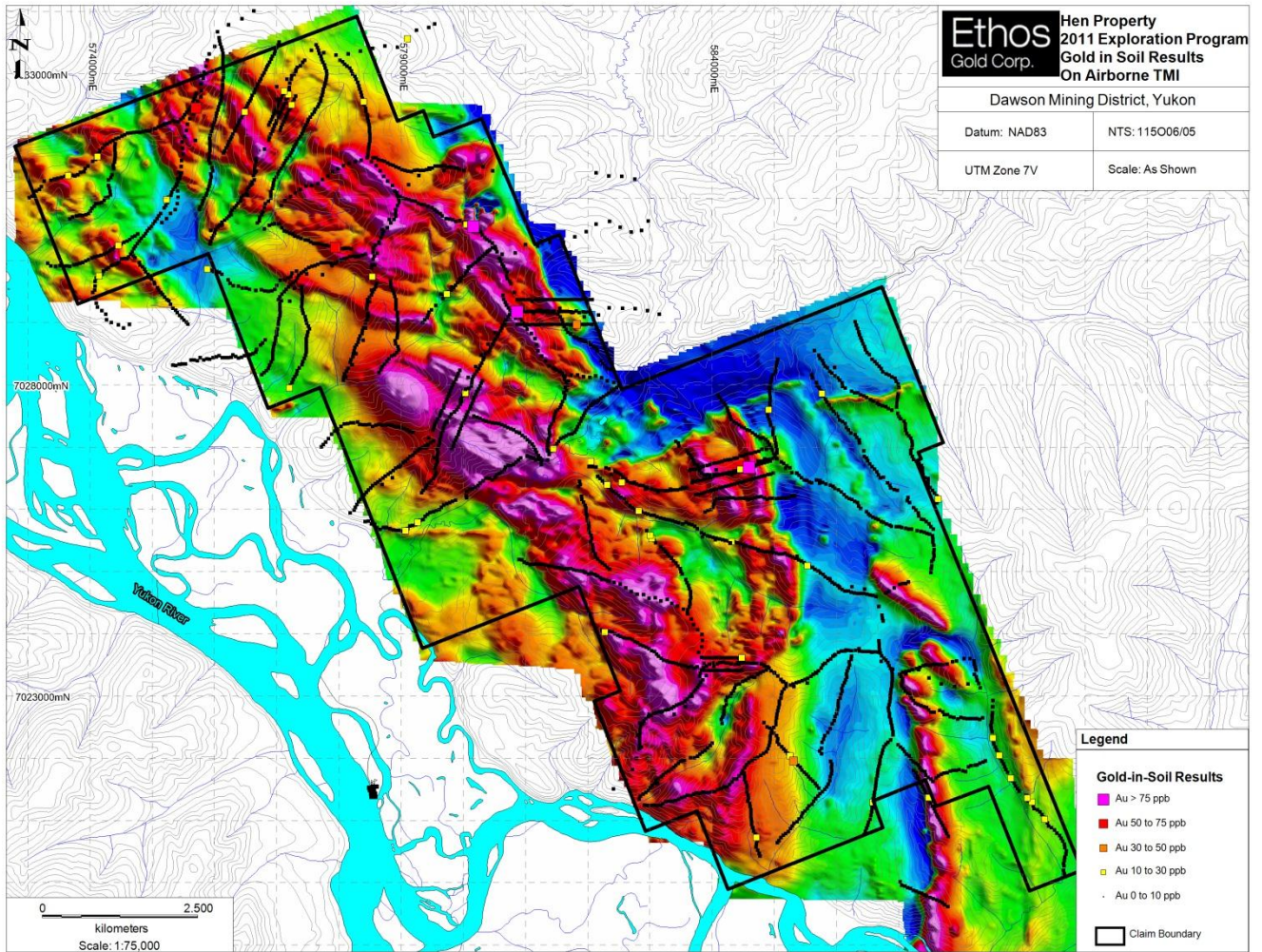


Figure 8. Gold-In-Soil Results & Total Magnetic Intensity



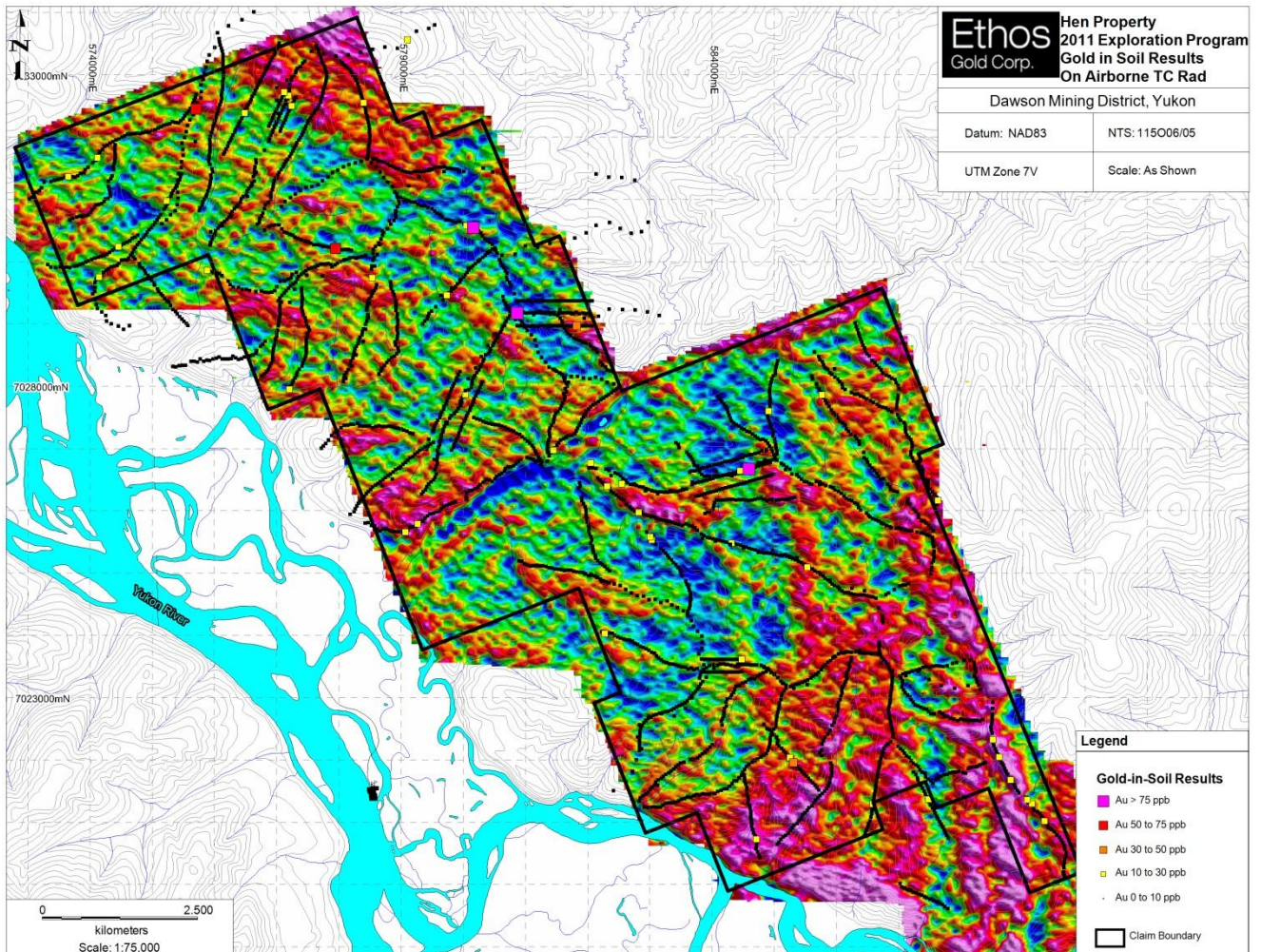


Figure 9. Gold-In-Soil Results & Total Count Radiometrics

Combining gold-in-soil anomalies with airborne magnetics indicates the central east-west fault is not sampled or tested by ridge-and-spur soil sampling. East-west faulting regionally is prospective for gold mineralization.

#### 7.4 Orthophotography

During 2011, Ethos' employed AECOM of Markham, Ontario to complete 109 line-kilometers of air-photo imagery over the Hen property as part of a larger 366 line-kilometer air-photo imagery program covering Ethos' Betty, Hayes, Bridget, Wolf and Hen properties. Geographic Air Survey Ltd. (GAS) of Edmonton, Alberta performed the flight acquiring the aerial photography on behalf of AECOM on August 25<sup>th</sup>, 27<sup>th</sup>, and 30<sup>th</sup>, 2011.

GAS used a RC30 Aerial Camera with Airborne Kinematic GPS positioning and Forward Motion Compensator as well as a Trimble 1000 SSI airborne GPS system all mounted in an Aero Commander 690 A aircraft (the acquisition of the colour aerial photography adhered to the Interdepartmental Committee on Air Surveys (ICAS) Specification for Aerial Survey Photography 2000). Photographs were flown with



variable sun angles of >30°, at the 1:20,000 scale (±1.0m vertical and horizontal), with 60% forward overlap and 30% side-lap suitable for stereoscopic viewing. Photograph indices were provided in a NTS 1:250,000-scale map sheet format. Flight lines were centered along the north and south perimeter boundaries of the property. A total of 18 flight lines and approximately 250 images were used to cover all property area of which five flight lines and approximately 45 images covered the Hen property. These images were stitched together to create 15 orthophoto tiles. The onboard Airborne GPS was utilized as the basis for ground control for the images as well as known survey monuments.

Aerial photograph image capture and processing was completed by AECOM. The air-photo film was scanned using a Vexcel 4000HT photogrammetric scanner and processed with a variety of programs including SOCET SET, ARC GIS, OrthoVista, PCI, AutoCAD, and Adobe PhotoShop. AECOM produced a DEM (digital elevation model) and Orthophotographs with 2m interval topographic contours. The true optic resolution was 10 microns or 0.20m ground resolution (Figure 10).

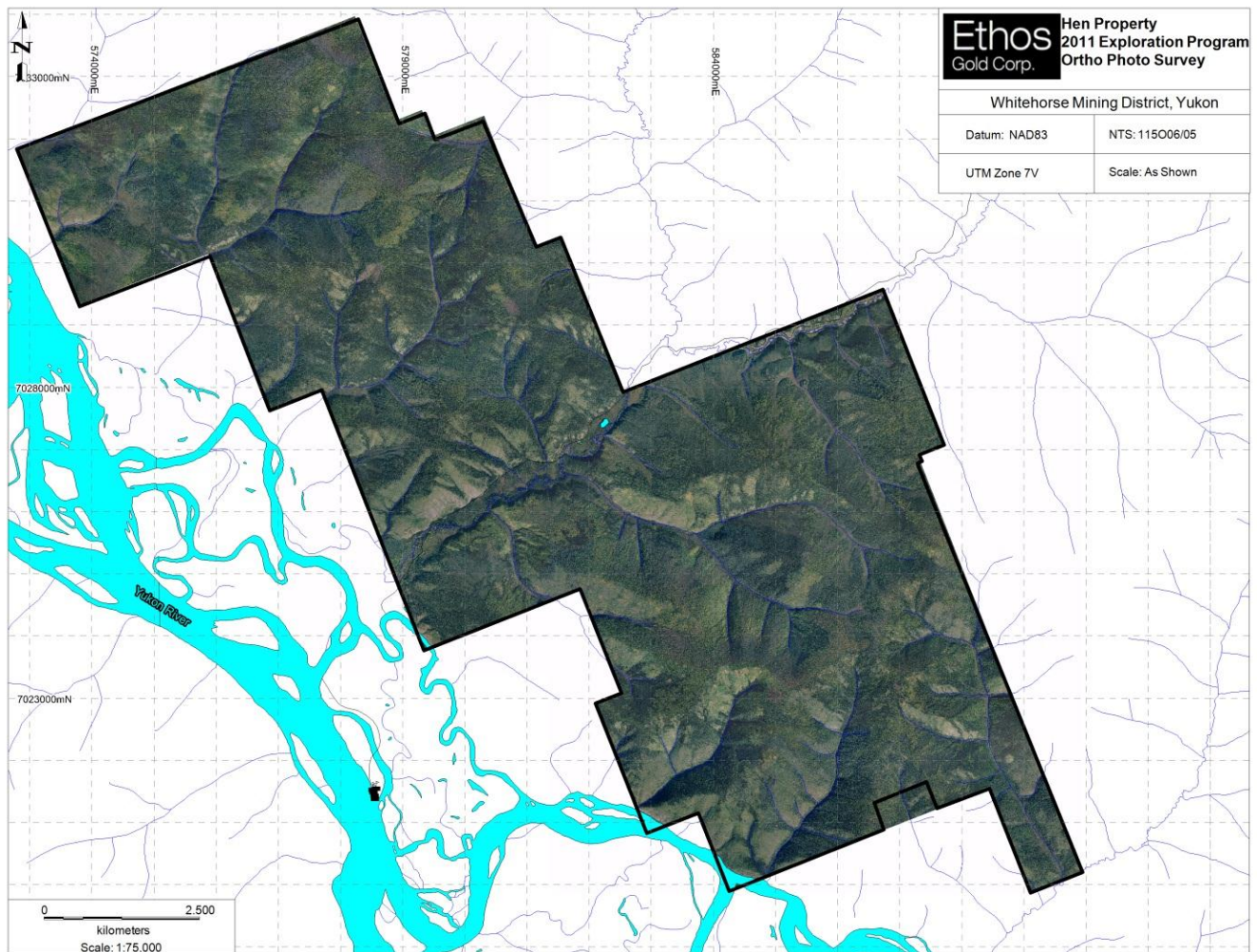


Figure 10. Hen Property Orthophoto Mosaic

## **7.5 Permitting**

Ethos contracted All-Terrane Exploration Mineral Exploration Services of Whitehorse, Yukon to apply for Class III Exploration permits on the Hen property. The permit was received from Yukon Environmental and Socio-economic Assessment Board (YESAB) in July 2012 and is good for five years.

## **8 Drilling**

No drilling has been completed on the Hen claims to date.

## **9 Sampling Method & Analyses**

Collection of rock and soil samples on the property during the 2011 field season was completed under the supervision of qualified geologists by experienced geological technicians. ACME Analytical Laboratories Ltd. was employed for geochemical sample analysis, ACME is an ISO 9001:2008 credited facility (certificate number FM 63007).

### **9.1 Sampling Method & Approach**

#### **9.1.1 Soil Samples**

Ethos contracted Ground Truth Exploration of Dawson to complete soil sampling on the Hen property. At each soil sample site, Ground Truth's Soil Technician identifies the most appropriate location to collect the sample and lays out a sheet of plastic (12" x 20" ore bag). The soil sample is taken using an Eijkelcamp hand-auger, at a depth of between 30 and 110 cm. Samplers strive to consistently collect C-horizon sample material. The soil is laid out on the sheet of plastic in the order it was recovered from the sample hole. Once the necessary amount of soil (400 - 500 g) has been obtained, the deepest soil is taken and placed in a bag labeled with the 3-letter project code and a unique 5-6 digit sample identification number. A representative rock chip sample is taken from the recovered soil and placed in a small (1" x 1.5") bag labeled with the same project code and sample identification number. An aluminum metal tag inscribed with the sample identification number is attached to a rock or branch at the sample site along with a length of pink flagging tape. A duplicate sample is taken once for every 25 samples. At the sample site twice as much of the desired soil is acquired and then placed on the plastic sheet and homogenized before being placed into two sample bags. Both samples are given their own sample bag identification number. The data for both samples is recorded and a note is made indicating the duplicate and its corresponding sample identification number.

The GPS location of the sample site is recorded with a Garmin GPSMap 60cx or 76cx GPS device in UTM NAD 83 format, and the waypoint is labeled with the project name and the sample identification number. A Palm PDA device is used in the field to record the characteristics and description of the sample taken; this includes: sample identification number, soil colour, soil horizon, slope, sample depth, ground and tree vegetation and sample quality and any other relevant information. As well, the GPS coordinates are entered into the Palm device as a secondary backup in case of GPS failure.

Each night in the field, the GPS and Palm PDA devices are downloaded to a laptop computer and the data is verified on a sampler-by-sampler basis in proprietary database auditing software ("Dirtbagger 3000") to ensure accurate data was recorded. The data is also mapped out daily using ESRI ArcMap to assure proper sample spacing and location. A backup of the sample data is made, copied onto a USB

memory stick and kept in a separate location from the laptop computer until job completion. Where possible, a backup is also sent via e-mail. The soil samples are packaged daily into fiber bags, sealed, and delivered via helicopter or fixed wing to Dawson where they are laid out on drying racks to air-dry, and then repackaged in labeled rice bags. Ground Truth personnel in Dawson deliver them to the ACME sample preparation lab in Dawson where a receipt for delivery is issued.

### **9.1.2 Rock Samples**

Rock samples were collected (grab, chip, float), tagged and bagged in thick plastic (poly) rock sample bags, placed into a rice bag and sealed for shipment to ACME's sample preparation facility in Dawson City where Ethos personnel were issued a submittal receipt. Acme employees placed the fiber sacks on pallets, which were trucked daily by subcontractor Kluane Freight Lines to Acme's Whitehorse rock and soil preparation lab. Rocks were either crushed and split in Whitehorse or shipped via Air North air-freight to Acme's Vancouver lab to be crushed and split. The originating preparation lab is indicated on the final signed assay certificate. At each rock sample location detailed sample descriptions were collected and locations were marked with flagging and recorded with a GPS.

## **9.2 Sample Preparation, Analyses and Security**

Each soil sample was analyzed by ACME Analytical Laboratories Ltd. in Vancouver, British Columbia for 36-element ICP-MS nitric-aqua regia digestion with a mass spectrometer finish; a 0.5 g sub-sample undergoes aqua regia digestion with ICP-MS analysis. Fifteen-grams of sample material was analyzed for Al, Sb, As, Ba, Bi, B, Cd, Ca, Cr, Co, Cu, Ga, Au, Fe, La, Pb, Mg, Mn, Hg, MO, Na, Ni, P, Ag, K, Sc, Sr, S, Tl, Th, Ti, Sn, W, U, V and Zn. Quality control procedures were implemented at the laboratory, involving regular insertion of blanks, standards and repeat analyses. Furthermore, soil sample field duplicates are routinely collected and inserted into the analytical stream as are pulp duplicates, as well as certified reference materials and blanks. ACME Labs prepared the samples in Dawson City and then shipped prepared samples to Vancouver for analysis. Soils are dried at 60°C and sieved to collect up to 500 grams passing the -80 mesh fraction. For detailed laboratory sample preparation and analysis procedures are outlined in Appendix II. Soil samples for 2011 were primarily processed in ACME's Dawson City preparation lab however some samples were processed in the Whitehorse and Vancouver labs.

Rock samples are analyzed using specific Acme rock and drill core packages coded "Geo2" which consists of the code 1DX1, 3B01, and G601+G613 procedures as follows. Rock samples are analyzed for gold coded "3B01" using a 30 gram sub-sample by fire assay with an atomic absorption finish for concentrations under 10 g/t Au and a gravimetric finish if greater than 10 g/t Au. All rocks are also analyzed coded "1DX1" using a 0.5 g sub-sample which undergoes aqua regia digestion with ICP-MS analysis for 36 reporting elements using the same methodology as per soils.

Ethos uses protocols standard to the industry and professional QA/QC procedures for assaying including the use of duplicates, certified laboratory standard(s), prep and assay wash blanks.

### 1. Sample Preparation

Package	Description	Code	Unit Cost CDN\$
Soils	Dry at 60°C, sieve (up to) 100g to -80mesh, up to ¼ kg		
	Soils processed in Dawson City	SS80-DAW	2.85
	Soils processed in Whitehorse	SS80-WHI	1.85
	Sieve large samples: 80 mesh per ¼ kg		0.80
Rock and Drill Cores	Crush 1kg to 80% passing 10mesh, split 250g and pulverize to 85% -200mesh Extra crushing and saving rejects over 1kg, per kg	R200-250	6.20 0.60

### 2. Sample Analysis

Package	Description	Code	Unit Cost CDN\$
Soils	15g sample, aqua regia digestion, ICPMS finish for low detection limits	1DX2	15.20
Rocks and Drill Cores	A. Consists of: 1. 1DX1 – 0.5g sample, aqua regia digestion, ICPMS analysis 2. 3B01 – 30g sample, fire assay, AA or ICP finish (2 – 10,000 ppb)	Geo2 (package)	23.40
	B. (Over limit Au > 10,000 ppb) 30g sample, fire assay, gravimetric finish	G601+G612	15.85

*Summary of analytical description and code for Acme Analytical soil and rock analyses packages used by Ethos during the 2011 exploration program.*

## 10 Data Verification

The author visited the property in June and August 2011 to direct and conduct the explorative work. Geochemical data was verified by sourcing original analytical certificates and data. The QAQC procedures for soils indicate adequate reproducibility of standards, blanks and duplicate samples within acceptable error limits.

## 11 Adjacent Properties

From north to south, the Hen project is adjoined along its eastern margin by the Hendy claims of Silver Quest Resources Ltd., the JP claims of Kinross Gold Corporation and the Tender claims of White Pine Resources Ltd. (Pautler, 2011). The JP claims cover the diamond drilled Hen MINFILE gold occurrence (1150 160). To the west, southwest of the Hen claims, lies the Stewart River.

From a more regional perspective, properties within the Tintina Gold Belt include the Coffee (Kaminak Gold Corporation) and White Gold (Kinross Gold Corporation), Lucky Joe (Redtail Metals Corporation) projects and the Minto Mine (Capstone Mining Corporation).

Kinross' White Gold deposit (AKA- Golden Saddle) is located 20 kilometers to the south-southwest, reporting 9,797,000 tonnes (measured and indicated) of 3.19 g/t gold (1,005,000 ounces), with an

additional 9,391,000 tonnes (inferred) of 1.91 g/t gold (578,000 ounces). The Hen project is located 50 km north of the Kaminak Coffee project. 2011 exploration season drilling on the Coffee project has defined gold mineralization along the Coffee Creek structure reporting 17.1 g/t Au over 15.5m with wider intervals running 1.08 g/t Au over 83.93 m from drill core.

## **12 Mineral Processing & Metallurgical Testing**

The project is at an early exploration phase and therefore no metallurgical testing has been carried out to date.

## **13 Mineral Resource & Reserve Estimate**

There has not been sufficient work on the property to undertake a resource calculation.

## **14 Other Relevant Data and Information**

To the author's knowledge, there is no additional information relevant to this technical report.

## **15 Interpretation and Conclusions**

The 2011 exploration methodology was intended to identify the potential for bulk-tonnage gold deposits with a notional 3 M oz size; thus the targeting is coarse and intended to quickly provide evidence of widespread gold mineralization.

The ridge-and-spur soil sampling results yielded single-site spot anomalies in gold and other gold-pathfinder elements. The total field magnetic survey indicates the possibility of an east-west fault; this orientation of faulting is inferred to control mineralization at Golden Saddle and elsewhere in the region.

Based on the results of the 2011 reconnaissance program, no evidence of widespread gold mineralization or epithermal alteration-mineralization with significant areal extent was detected. The evaluation of the Hen property was necessarily a 'quick screen' designed to detect gold-alteration footprints like those found around for example the Pogo or Livengood or similar multi-million ounce gold deposits within the Tintina gold belt. The potential to locate 0.5 million ounce gold deposits remains on the Hen property; this is not considered an economic target by Ethos at this time.

## **16 Recommendations**

No further work is recommended on the Hen property. Given the terms of the option agreement, it is recommended the property be returned to the vendors rather than hold the property to await results of ongoing exploration by other companies.

**17 Statement of Expenditures**

Expenditures on the Hen Property were incurred between June 1, 2011 and September 15, 2011.

<b>Contractor</b>	<b>Type</b>	<b>Period (2011)</b>	<b>Amount</b>	<b>Invoice ID</b>
Ground Truth Exploration	Soil Survey	June 3 to June 9	\$ 49,389.50	HEN 2011-01
Acme Labs	Soil-Rock Analysis	June 6 to July 19	\$ 41,790.00	Various
Trans-North Helicopter	Soil Survey	June 3 to June 13	\$ 90,198.00	Various
New-Sense Geophysics	Airborne	Aug.10 to Aug.12	\$ 76,520.00	Various
AECOM Engineering	Orthophoto	Jun 2 to Sep 15	\$ 13,745.00	38066163
All-Terrane	Prospecting	Jun 13	\$ 6,660.00	Various
<b>Total to Sep 15, 2011</b>			<b>\$ 278,302.00</b>	

Expenditures certified correct,



Peter Tallman, P.Geol.  
Chief Operating Officer, Ethos Gold Corp.



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## 19 Statement of Qualifications

I, Peter Tallman, of Vancouver, British Columbia hereby certify that:

- I am a graduate of the University of Western Ontario with a Bachelor of Science (Geology) degree (1984).
- I am a practicing Professional Geoscientist (#02366) with the Professional Engineers and Geoscientists of Newfoundland and Labrador (PEGNL) since May 1991.
- I have practiced my profession as a geologist in Canada, throughout the America's as well as Australia and Africa continuously since graduation.
- I have held the position of executive officer and/or director of various publically listed Canadian corporations since 1995.
- I currently hold the position of Chief Operating Officer with Ethos Gold Corp., a company listed publically on the TSXV Exchange.
- I own shares and have been granted options to purchase shares in Ethos Gold Corp.
- I directed work on the Hen Property during the period June 1 to September 15, 2011 and am the designated Qualified Person as defined by National Instrument 43-101 policy.

Dated in Vancouver, British Columbia this 12<sup>th</sup> day of May, 2012.

A handwritten signature in black ink, appearing to read 'Peter Tallman', with a period at the end.

Peter Tallman, P.Geol.

*Appendix I – Mineral Tenure of the Hen Property*

















Claim Name	Grant Number	Claim Owner	Recording Date	Staking Date	Expiry Date
HEN 472	YD130434	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	12/21/2010	11/24/2010	12/21/2016
HEN 473	YD130435	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	12/21/2010	11/24/2010	12/21/2016
HEN 474	YD130436	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	12/21/2010	11/24/2010	12/21/2016
HEN 475	YD130437	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	12/21/2010	11/24/2010	12/21/2016
HEN 476	YD130438	Shawn Ryan - 70%, Wildwood Exploration Inc. - 30%	12/21/2010	11/24/2010	12/21/2016

*Appendix II - Soil Sample Locations and Descriptions*

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1035301	HEN	7	586683	7023886	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Dwarf Birch	Sphagnum Moss > 30cm	Good	Coarse	
1035302	HEN	7	586687	7023836	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Leaf Cover	Good	Coarse	
1035303	HEN	7	586690	7023787	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1035304	HEN	7	586696	7023738	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Birch Forest	Sphagnum Moss > 30cm	Good	Coarse	
1035305	HEN	7	586704	7023687	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Willows	Sphagnum Moss > 30cm	Good	Fine	
1035306	HEN	7	586727	7023643	6/8/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	40 C		Alders	Sphagnum Moss > 30cm	Good	Fine	
1035307	HEN	7	586761	7023608	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Coarse	
1035308	HEN	7	586798	7023574	6/8/2011	Reddish Brown	Gravel	Damp	Subtle Slope	50 C		Willows	Sphagnum Moss > 30cm	Good	Coarse	
1035309	HEN	7	586828	7023534	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Willows	Reindeer Moss	Good	Fine	
1035310	HEN	7	586844	7023486	6/8/2011	Light Brown	Gravel	Damp	Subtle Slope	60 C		Willows	Thin Moss Cover	Good	Fine	
1035311	HEN	7	586870	7023444	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Fine	
1035312	HEN	7	586892	7023400	6/8/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 C		Birch Forest	Sphagnum Moss > 30cm	Good	Coarse	
1035313	HEN	7	586898	7023351	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Coarse	
1035314	HEN	7	586898	7023300	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Fine	
1035315	HEN	7	586899	7023249	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1035316	HEN	7	586892	7023201	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Alders	Thin Moss Cover	Good	Coarse	
1035317	HEN	7	586892	7023151	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1035318	HEN	7	586877	7023105	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Dwarf Birch	Sphagnum Moss > 30cm	Good	Fine	
1035319	HEN	7	586871	7023056	6/8/2011	Light Brown	Sand	Damp	Subtle Slope	50 B		Black Spruce	Thin Moss Cover	Good	Coarse	
1035320	HEN	7	586866	7023007	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Black Spruce	Reindeer Moss	Good	Fine	
1035321	HEN	7	586863	7022957	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Black Spruce	Reindeer Moss	Good	Fine	
1035322	HEN	7	586856	7022909	6/8/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1035323	HEN	7	586845	7022859	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Alders	Sphagnum Moss > 30cm	Good	Coarse	
1035324	HEN	7	586833	7022809	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		White Spruce	Thin Moss Cover	Good	Coarse	
1035325	HEN	7	586841	7022763	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 B		White Spruce	Needle Cover	Good	Coarse	
1035326	HEN	7	586854	7022716	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1035327	HEN	7	586851	7022666	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Fine	
1035328	HEN	7	586869	7022624	6/8/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 B		Dwarf Birch	Thin Moss Cover	Good	Fine	
1035329	HEN	7	586878	7022574	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 B		Birch Forest	Thin Moss Cover	Good	Fine	
1035330	HEN	7	586890	7022527	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Birch Forest	Sphagnum Moss > 30cm	Good	Fine	
1035331	HEN	7	586899	7022477	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Alders	Thin Moss Cover	Good	Fine	
1035332	HEN	7	586910	7022427	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1035333	HEN	7	586909	7022373	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Fine	
1035334	HEN	7	586909	7022373	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Fine	
1035401	HEN	7	584632	7023307	6/7/2011	Dark Brown	Gravel	Damp	Steep	70 C		Poplar	Leaf Cover	Good	Rocky	
1035402	HEN	7	584682	7023301	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	60 C		Poplar	Grass Cover	Good	Rocky	
1035403	HEN	7	584732	7023345	6/7/2011	Dark Olivine Green	Gravel	Wet	Pronounced Slope	80 C		Poplar	Leaf Cover	Excellent	Coarse	
1035404	HEN	7	584584	7023289	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Quartz Chips	
1035405	HEN	7	584438	7023194	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	70 C		Poplar	Leaf Cover	Excellent	Rocky	Coarse
1035406	HEN	7	584363	7023133	6/7/2011	Chocolate Brown	Sand	Damp	Steep	60 C		Poplar	Grass Cover	Good	Coarse	
1035407	HEN	7	584345	7023080	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	50 C		Poplar	Grass Cover	Good	Rocky	Coarse
1035408	HEN	7	584293	7022996	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	50 C		Poplar	Leaf Cover	Good	Rocky	Small Sample
1035409	HEN	7	584243	7022980	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	80 C		Poplar	Leaf Cover	Excellent	Coarse	
1035410	HEN	7	584232	7022867	6/7/2011	Chocolate Brown	Sand	Damp	Steep	60 C		Poplar	Leaf Cover	Good	Coarse	
1035411	HEN	7	584200	7022824	6/7/2011	Dark Brown	Gravel	Damp	Steep	50 C		Poplar	Grass Cover	Good	Rocky	
1035412	HEN	7	585447	7023247	6/8/2011	Dark Brown	Sand	Damp	Subtle Slope	60 C		Willows	Leaf Cover	Good	Coarse	
1035413	HEN	7	584158	7022561	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	40 C		Poplar	Thin Moss Cover	Good	Rocky	
1035414	HEN	7	584145	7022624	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	50 C		White Spruce	Thin Moss Cover	Good	Coarse	
1035415	HEN	7	584170	7022662	6/7/2011	Chocolate Brown	Sand	Damp	Steep	70 C		Poplar	Leaf Cover	Good	Coarse	
1035416	HEN	7	584189	7022706	6/7/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	40 B		White Spruce	Leaf Cover	Good	Coarse	
1035417	HEN	7	584221	7022929	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	50 C		Poplar	Leaf Cover	Good	Rocky	
1035418	HEN	7	584313	7023045	6/7/2011	Dark Brown	Gravel	Damp	Steep	50 C		White Spruce	Thin Moss Cover	Good	Rocky	Coarse
1035419	HEN	7	584385	7023182	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	50 C		Poplar	Bare Soil	Good	Sand	Coarse
1035420	HEN	7	584490	7023235	6/7/2011	Chocolate Brown	Sand	Damp	Steep	80 C		Poplar	Leaf Cover	Excellent	Coarse	
1035421	HEN	7	584542	7023251	6/7/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 C		Poplar	Grass Cover	Good	Rocky	Coarse
1035422	HEN	7	584777	7023371	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	50 C		Poplar	Leaf Cover	Good	Rocky	
1035423	HEN	7	584823	7023399	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	80 C		Poplar	Leaf Cover	Excellent	Coarse	
1035424	HEN	7	584871	7023417	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	80 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1035425	HEN	7	584914	7023449	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1035426	HEN	7	585258	7023176	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Subalpine Fir	Thin Moss Cover	Good	Coarse	
1035427	HEN	7	585352	7023216	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Coarse	
1035428	HEN	7	585397	7023228	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Good	Coarse	
1035429	HEN	7	585541	7023286	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1035430	HEN	7	585586	7023318	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1035431	HEN	7	585630	7023344	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1035432	HEN	7	585675	7023363	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	
1035433	HEN	7	585709	7023403	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Poplar	Thin Moss Cover	Good	Coarse	Rocky
1035434	HEN	7	585751	7023448	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Poplar	Sphagnum Moss < 30cm	Good	Fine	
1035435	HEN	7	585782	7023498	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Black Spruce	Leaf Cover	Good	Coarse	
1035436	HEN	7	585823	7023522	6/8/2011	Chocolate Brown	Clay	Damp	Flat	50 C		Birch Forest	Thin Moss Cover	Good	Coarse	Sand
1035437	HEN	7	585863	7023569	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Quartz Chips

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1035438	HEN	7	585908	7023597	6/8/2011	Chocolate Brown	Sand	Damp	Flat	60 C		Birch Forest	Leaf Cover	Excellent	Coarse	Rocky
1035439	HEN	7	585945	7023636	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1035440	HEN	7	585985	7023666	6/8/2011	Light Brown	Sand	Dry	Flat	50 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1035441	HEN	7	586031	7023701	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1035442	HEN	7	586079	7023719	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	80 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1035443	HEN	7	585491	7023267	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	80 C		Birch Forest	Needle Cover	Excellent	Coarse	
1035444	HEN	7	586135	7023719	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	70 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1035445	HEN	7	586189	7023731	6/8/2011	Reddish Yellow	Sand	Damp	Subtle Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1035446	HEN	7	586245	7023728	6/8/2011	Dark Brown	Gravel	Damp	Flat	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1035447	HEN	7	586309	7023735	6/8/2011	Chocolate Brown	Sand	Damp	Flat	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1035448	HEN	7	586370	7023724	6/8/2011	Reddish Yellow	Sand	Damp	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1035449	HEN	7	586419	7023718	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Good	Coarse	
1035451	HEN	7	583651	7024679	6/7/2011	Dark Grey Black	Sand	Damp	Subtle Slope	20 C		Pine	Leaf Cover	Good	Coarse	
1035452	HEN	7	583417	7025134	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1035453	HEN	7	587934	7023560	6/8/2011	Chocolate Brown	Gravel	Damp	Steep	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1035454	HEN	7	587868	7023550	6/8/2011	Chocolate Brown	Gravel	Wet	Pronounced Slope	50 B		Poplar	Leaf Cover	Good	Wet Soil	
1035455	HEN	7	587781	7023513	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	30 B		White Spruce	Sphagnum Moss < 30cm	Good	Quartz Chips	Coarse
1035456	HEN	7	587715	7023500	6/8/2011	Dark Olivine Green	Gravel	Dry	Pronounced Slope	40 C		White Spruce	Leaf Cover	Excellent	Coarse	Quartz Chips
1035457	HEN	7	583635	7024727	6/7/2011	Dark Brown	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1035458	HEN	7	583657	7024580	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		Pine	Leaf Cover	Poor	Rocky	Clay
1035459	HEN	7	587665	7023508	6/8/2011	Light Brown	Sand	Dry	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1035460	HEN	7	583450	7025088	6/7/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Poor	Rocky	
1035461	HEN	7	587611	7023509	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1035462	HEN	7	583499	7025000	6/7/2011	Grey	Gravel	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Good	Rocky	Frozen
1035463	HEN	7	583485	7025051	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Good	Sand	
1035465	HEN	7	587555	7023505	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	80 C		Black Spruce	Leaf Cover	Excellent	Coarse	Quartz Chips
1035466	HEN	7	587497	7023495	6/8/2011	Chocolate Brown	Gravel	Dry	Steep	50 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1035467	HEN	7	587445	7023499	6/8/2011	Bluish Grey	Gravel	Damp	Pronounced Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1035468	HEN	7	587390	7023489	6/8/2011	Dark Olivine Green	Gravel	Wet	Pronounced Slope	40 C		Black Spruce	Leaf Cover	Good	Rocky	Wet Soil
1035469	HEN	7	587343	7023462	6/8/2011	Bluish Grey	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Small Sample	Rocky
1035470	HEN	7	587283	7023444	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Leaf Cover	Good	Coarse	Rocky
1035471	HEN	7	587223	7023421	6/8/2011	Light Brown	Gravel	Damp	Pronounced Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1035472	HEN	7	583383	7025171	6/7/2011	Reddish Yellow	Sand	Dry	Subtle Slope	30 C		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1035473	HEN	7	583351	7025211	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1035476	HEN	7	583579	7024870	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1035477	HEN	7	583522	7024956	6/7/2011	Dark Grey Black	Gravel	Wet	Subtle Slope	40 C		White Spruce	Sphagnum Moss > 30cm	Poor	Clay	Rocky
1035478	HEN	7	583597	7024822	6/7/2011	Chocolate Brown	Gravel	Wet	Pronounced Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1035479	HEN	7	583619	7024775	6/7/2011	Dark Blue Black	Gravel	Wet	Subtle Slope	20 B		Alders	Sphagnum Moss < 30cm	Poor	Sand	Frozen
1035480	HEN	7	583250	7025323	6/7/2011	Chocolate Brown	Clay	Wet	Subtle Slope	30 B		White Spruce	Sphagnum Moss < 30cm	Poor	Rocky	
1035481	HEN	7	583215	7025361	6/7/2011	Chocolate Brown	Sand	Wet	Subtle Slope	10 B		White Spruce	Sphagnum Moss < 30cm	Poor	Small Sample	Clay
1035482	HEN	7	583177	7025395	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	10 B		Alders	Sphagnum Moss < 30cm	Good	Clay	
1035483	HEN	7	583097	7025458	6/7/2011	Dark Grey Black	Sand	Wet	Subtle Slope	10 B		White Spruce	Sphagnum Moss < 30cm	Poor	Clay	
1035484	HEN	7	583070	7025500	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Poor	Rocky	
1035485	HEN	7	583032	7025533	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Poor	Mud	
1035486	HEN	7	583007	7025579	6/7/2011	Chocolate Brown	Sand	Wet	Subtle Slope	20 C		White Spruce	Sphagnum Moss < 30cm	Poor	Frozen	Rocky
1035487	HEN	7	583655	7024630	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 C		Poplar	Sphagnum Moss < 30cm	Good	Sand	Rocky
1035491	HEN	7	586795	7024652	6/8/2011	Chocolate Brown	Sand	Dry	Flat	60 C		White Spruce	Thin Moss Cover	Excellent	Fine	
1035492	HEN	7	582947	7025660	6/7/2011	Dark Grey Black	Sand	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Poor	Clay	Frozen
1035493	HEN	7	583646	7024531	6/7/2011	Greyish Green	Gravel	Damp	Subtle Slope	40 C		Pine	Sphagnum Moss < 30cm	Good	Sand	Clay
1035494	HEN	7	583313	7025245	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1035495	HEN	7	583283	7025286	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	20 C		White Spruce	Sphagnum Moss < 30cm	Poor	Coarse	
1035496	HEN	7	583634	7024430	6/7/2011	Greyish Green	Gravel	Damp	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Sand	Clay
1035497	HEN	7	583646	7024480	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Sand	Rocky
1035498	HEN	7	583610	7024385	6/7/2011	Greyish Green	Gravel	Damp	Flat	40 C		Poplar	Leaf Cover	Good	Sand	
1035499	HEN	7	583599	7024335	6/7/2011	Reddish Yellow	Gravel	Damp	Flat	70 C		Poplar	Leaf Cover	Good	Sand	Quartz Chips
1035500	HEN	7	583599	7024335	6/7/2011	Reddish Yellow	Gravel	Damp	Flat	70 C		Poplar	Leaf Cover	Good	Sand	Quartz Chips
1192018	HEN	7	577420	7033186	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		White Spruce	Bare Soil	Good	Organic 10%	
1192025	HEN	7	586475	7023716	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192026	HEN	7	584191	7022764	6/7/2011	Chocolate Brown	Gravel	Dry	Steep	40 C		Poplar	Grass Cover	Good	Rocky	Sand
1192027	HEN	7	586574	7023711	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1192029	HEN	7	576876	7031931	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		White Spruce	Leaf Cover	Good	Coarse	
1192030	HEN	7	576887	7031983	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		White Spruce	Leaf Cover	Good	Coarse	
1192031	HEN	7	576933	7032075	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		White Spruce	Bare Soil	Good	Coarse	
1192032	HEN	7	576987	7032200	6/3/2011	Chocolate Brown	Sand	Damp	Flat	40 C		White Spruce	Thin Moss Cover	Good	Coarse	
1192033	HEN	7	576996	7032244	6/3/2011	Chocolate Brown	Sand	Damp	Flat	30 B		White Spruce	Thin Moss Cover	Good	Clay	
1192034	HEN	7	577028	7032296	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Fine	
1192035	HEN	7	577047	7032341	6/3/2011	Chocolate Brown	Sand	Damp	Flat	40 B		Birch Forest	Leaf Cover	Good	Coarse	
1192036	HEN	7	577088	7032437	6/3/2011	Bluish Grey	Gravel	Damp	Flat	40 C		White Spruce	Leaf Cover	Excellent	Rocky	
1192037	HEN	7	577106	7032480	6/3/2011	Chocolate Brown	Sand	Damp	Flat	40 B		White Spruce	Thin Moss Cover	Good	Fine	
1192038	HEN	7	577138	7032526	6/3/2011	Bluish Grey	Sand	Damp	Subtle Slope	30 B		Birch Forest	Leaf Cover	Good	Rocky	
1192039	HEN	7	577143	7032587	6/3/2011	Reddish Yellow	Sand	Damp	Subtle Slope	40 C		Old Burn	Thin Moss Cover	Good	Coarse	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1192040	HEN	7	577179	7032613	6/3/2011	Chocolate Brown	Gravel	Damp	Flat	40 B		White Spruce	Thin Moss Cover	Good	Coarse	Rocky
1192041	HEN	7	577189	7032668	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		White Spruce	Leaf Cover	Good	Coarse	
1192042	HEN	7	577205	7032728	6/3/2011	Reddish Yellow	Sand	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1192043	HEN	7	577206	7032782	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		White Spruce	Leaf Cover	Good	Coarse	
1192044	HEN	7	577232	7032913	6/3/2011	Chocolate Brown	Sand	Damp	Flat	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1192045	HEN	7	577281	7032992	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Thin Moss Cover	Good	Fine	
1192046	HEN	7	577239	7032968	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		White Spruce	Leaf Cover	Good	Coarse	
1192047	HEN	7	577306	7033041	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		White Spruce	Leaf Cover	Good	Coarse	
1192048	HEN	7	577306	7033041	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		White Spruce	Leaf Cover	Good	Coarse	
1192049	HEN	7	577331	7033101	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	40 B		Old Burn	Thin Moss Cover	Good	Coarse	
1192050	HEN	7	577379	7033130	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Old Burn	Bare Soil	Good	Coarse	
1192076	HEN	7	576282	7030806	6/3/2011	Reddish Yellow	Sand	Dry	Flat	70 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1192077	HEN	7	576282	7030806	6/3/2011	Reddish Yellow	Sand	Dry	Flat	70 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1192078	HEN	7	576258	7030768	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 B		White Spruce	Thin Moss Cover	Good	Sand	
1192079	HEN	7	576318	7030848	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1192080	HEN	7	576353	7030883	6/3/2011	Reddish Yellow	Sand	Damp	Subtle Slope	70 C		Birch Forest	Leaf Cover	Excellent	Frozen	Quartz Chips
1192081	HEN	7	576379	7030921	6/3/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	60 C		White Spruce	Leaf Cover	Excellent	Coarse	Quartz Chips
1192082	HEN	7	576430	7031010	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	70 C		White Spruce	Thin Moss Cover	Excellent	Coarse	
1192083	HEN	7	576462	7031049	6/3/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	40 B		Dwarf Birch	Leaf Cover	Good	Coarse	
1192084	HEN	7	576416	7030952	6/3/2011	Chocolate Brown	Sand	Damp	Flat	50 B		White Spruce	Leaf Cover	Good	Sand	
1192085	HEN	7	576510	7031074	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Sand	Coarse
1192087	HEN	7	576522	7031133	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		White Spruce	Leaf Cover	Good	Coarse	
1192089	HEN	7	575961	7030362	6/3/2011	Light Brown	Gravel	Dry	Pronounced Slope	80 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Quartz Chips	
1192090	HEN	7	575984	7030402	6/3/2011	Grey	Sand	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Partially Frozen	Coarse
1192092	HEN	7	576052	7030537	6/3/2011	Dark Olivine Green	Silt	Wet	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1192093	HEN	7	575927	7030264	6/3/2011	Light Brown	Gravel	Dry	Steep	80 C		White Spruce	Grass Cover	Excellent	Quartz Chips	Coarse
1192094	HEN	7	575938	7030311	6/3/2011	Light Brown	Sand	Dry	Pronounced Slope	70 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192095	HEN	7	576084	7030573	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1192096	HEN	7	576006	7030437	6/3/2011	Chocolate Brown	Gravel	Wet	Pronounced Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Mud	Rocky
1192097	HEN	7	576018	7030497	6/3/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	70 C		White Spruce	Leaf Cover	Excellent	Coarse	
1192098	HEN	7	576119	7030613	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192099	HEN	7	576159	7030650	6/3/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	Coarse
1192100	HEN	7	576198	7030680	6/3/2011	Light Brown	Gravel	Damp	Subtle Slope	40 C		White Spruce	Leaf Cover	Excellent	Coarse	
1192101	HEN	7	573832	7030728	6/3/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	70 C		Poplar	Leaf Cover	Good	Sand	
1192102	HEN	7	573782	7030714	6/3/2011	Chocolate Brown	Silt	Damp	Steep	70 C		Poplar	Grass Cover	Good	Loess	Fine
1192103	HEN	7	573981	7030752	6/3/2011	Light Bluish Grey	Silt	Dry	Pronounced Slope	60 C		Poplar	Bare Soil	Good	Loess	
1192104	HEN	7	574404	7031675	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		White Spruce	Leaf Cover	Good	Fine	
1192105	HEN	7	574377	7031477	6/3/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	50 C		White Spruce	Leaf Cover	Good	Big Round Boulders	
1192106	HEN	7	574332	7031332	6/3/2011	Greyish Green	Sand	Damp	Subtle Slope	80 C		Poplar	Thin Moss Cover	Good	Coarse	Clay
1192107	HEN	7	574353	7031377	6/3/2011	Reddish Yellow	Sand	Wet	Flat	50 C		Old Burn	Thin Moss Cover	Good	Clay	
1192108	HEN	7	574400	7031626	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		White Spruce	Thin Moss Cover	Good	Clay	
1192109	HEN	7	574306	7031159	6/3/2011	Reddish Orange	Sand	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Good	Clay	
1192110	HEN	7	574325	7031056	6/3/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Clay	
1192111	HEN	7	574190	7030930	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1192112	HEN	7	574068	7030872	6/3/2011	Dark Blue Black	Silt	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1192113	HEN	7	574030	7030838	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Fine	
1192115	HEN	7	574295	7031295	6/3/2011	Dark Grey Black	Sand	Damp	Pronounced Slope	60 C		Poplar	Sphagnum Moss < 30cm	Good	Quartz Chips	
1192116	HEN	7	574223	7030966	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	30 B		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1192117	HEN	7	574292	7031018	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Clay	
1192118	HEN	7	574003	7030794	6/3/2011	Greyish Green	Silt	Dry	Pronounced Slope	50 C		White Spruce	Bare Soil	Good	Sand	
1192119	HEN	7	574244	7031011	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1192120	HEN	7	573934	7030735	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	30 B		Poplar	Grass Cover	Good	Clay	
1192121	HEN	7	573884	7030726	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	50 C		Poplar	Grass Cover	Good	Sand	
1192122	HEN	7	573715	7030695	6/3/2011	Chocolate Brown	Silt	Dry	Steep	50 C		Poplar	Grass Cover	Good	Loess	Fine
1192123	HEN	7	573672	7030669	6/3/2011	Light Brown	Clay	Dry	Steep	80 C		Poplar	Grass Cover	Good	Sand	Loess
1192124	HEN	7	582204	7024902	6/4/2011	Chocolate Brown	Gravel	Dry	Flat	50 C		Poplar	Leaf Cover	Good	Sand	
1192125	HEN	7	582342	7024848	6/4/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Poplar	Leaf Cover	Good	Coarse	
1192126	HEN	7	574142	7030923	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Fine	
1192127	HEN	7	574094	7030912	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	50 C		Poplar	Thin Moss Cover	Good	Fine	
1192151	HEN	7	576551	7031173	6/3/2011	Chocolate Brown	Gravel	Dry	Flat	60 C		Birch Forest	Grass Cover	Excellent	Sand	Coarse
1192152	HEN	7	576601	7031262	6/3/2011	Chocolate Brown	Gravel	Dry	Flat	30 C		Birch Forest	Leaf Cover	Excellent	Quartz Chips	Coarse
1192153	HEN	7	576232	7030713	6/3/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1192154	HEN	7	576653	7031526	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Poplar	Leaf Cover	Good	Coarse	Rocky
1192155	HEN	7	576583	7031214	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Coarse	
1192156	HEN	7	576637	7031296	6/3/2011	Reddish Yellow	Gravel	Dry	Pronounced Slope	60 C		Birch Forest	Leaf Cover	Excellent	Coarse	Sand
1192157	HEN	7	576627	7031363	6/3/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	40 B		Birch Forest	Leaf Cover	Good	Coarse	
1192158	HEN	7	576645	7031463												
1192159	HEN	7	576642	7031411	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		White Spruce	Leaf Cover	Good	Coarse	
1192160	HEN	7	576668	7031589	6/3/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50 B		Alders	Leaf Cover	Good	Coarse	
1192161	HEN	7	580624	7029939	6/4/2011	Light Brown	Gravel	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1192162	HEN	7	580673	7029328	6/4/2011	Dark Olivine Green	Gravel	Dry	Flat	60 C		Old Burn	Thin Moss Cover	Excellent	Coarse	



Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1192163	HEN	7	580598	7029992	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192164	HEN	7	580578	7030034	6/4/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192165	HEN	7	580647	7029904	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Birch Forest	Leaf Cover	Good	Coarse	
1192166	HEN	7	584085	7023521	6/7/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	Quartz Chips
1192167	HEN	7	580819	7029485	6/4/2011	Dark Olivine Green	Gravel	Wet	Subtle Slope	70 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192168	HEN	7	580871	7029104	6/4/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192170	HEN	7	580725	7029235	6/4/2011	Greyish Green	Gravel	Dry	Subtle Slope	50 C		Old Burn	Thin Moss Cover	Excellent	Coarse	
1192171	HEN	7	580945	7029033	6/4/2011	Greyish Green	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Partially Frozen
1192172	HEN	7	580509	7030224	6/4/2011	Light Brown	Sand	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Wet Soil
1192173	HEN	7	580747	7029668	6/4/2011	Dark Olivine Green	Gravel	Damp	Pronounced Slope	30 C		White Spruce	Sphagnum Moss > 30cm	Good	Frozen	Coarse
1192174	HEN	7	580705	7029705	6/4/2011	Dark Olivine Green	Gravel	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1192175	HEN	7	580696	7029755	6/4/2011	Dark Olivine Green	Gravel	Damp	Pronounced Slope	50 C		Birch Forest	Sphagnum Moss > 30cm	Good	Rocky	Coarse
1192176	HEN	7	581008	7028954	6/4/2011	Greyish Green	Gravel	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1192177	HEN	7	580976	7028989	6/4/2011	Greyish Green	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1192178	HEN	7	580913	7029072	6/4/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	Coarse
1192179	HEN	7	584014	7023528	6/7/2011	Chocolate Brown	Gravel	Damp	Flat	50 B		Birch Forest	Leaf Cover	Good	Coarse	Quartz Chips
1192181	HEN	7	580694	7029281	6/4/2011	Greyish Green	Gravel	Dry	Subtle Slope	60 C		Old Burn	Thin Moss Cover	Excellent	Coarse	
1192182	HEN	7	580790	7029162	6/4/2011	Dark Olivine Green	Gravel	Dry	Subtle Slope	50 C		Old Burn	Thin Moss Cover	Good	Coarse	
1192183	HEN	7	580649	7029376	6/4/2011	Dark Olivine Green	Sand	Dry	Flat	50 C		Old Burn	Thin Moss Cover	Good	Coarse	
1192184	HEN	7	580752	7029202	6/4/2011	Greyish Green	Gravel	Dry	Subtle Slope	40 C		Old Burn	Thin Moss Cover	Good	Coarse	Rocky
1192185	HEN	7	580675	7029855	6/4/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	50 B		Birch Forest	Sphagnum Moss < 30cm	Good	Sand	Coarse
1192186	HEN	7	580765	7029624	6/4/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Sand	Quartz Chips
1192187	HEN	7	584520	7023529	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Excellent	Quartz Chips	Rocky
1192188	HEN	7	580819	7029485	6/4/2011	Dark Olivine Green	Gravel	Wet	Subtle Slope	70 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192189	HEN	7	580637	7029442	6/4/2011	Greyish Green	Sand	Dry	Subtle Slope	40 B		Old Burn	Leaf Cover	Good	Coarse	
1192190	HEN	7	580850	7029153	6/4/2011	Greyish Green	Sand	Wet	Subtle Slope	40 B		Pine	Sphagnum Moss < 30cm	Poor	Mud	Coarse
1192192	HEN	7	580541	7030137	6/4/2011	Light Brown	Gravel	Damp	Subtle Slope	40 B		Birch Forest	Sphagnum Moss > 30cm	Good	Coarse	
1192193	HEN	7	580520	7030184	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	Frozen
1192194	HEN	7	588149	7023599	6/8/2011	Bluish Grey	Gravel	Damp	Steep	50 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1192195	HEN	7	583863	7023456	6/7/2011	Reddish Yellow	Gravel	Wet	Subtle Slope	80 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Quartz Chips	Coarse
1192196	HEN	7	583797	7023314	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 B		Birch Forest	Leaf Cover	Good	Quartz Chips	
1192197	HEN	7	584368	7023506	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 C		Birch Forest	Leaf Cover	Good	Quartz Chips	Rocky
1192198	HEN	7	584718	7023524	6/7/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Small Sample	Rocky
1192199	HEN	7	585192	7023199	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192200	HEN	7	585005	7023367	6/7/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	50 C		Dwarf Birch	Leaf Cover	Excellent	Quartz Chips	Sand
1192201	HEN	7	574374	7031528	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1192202	HEN	7	574391	7031577	6/3/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Fine	
1192203	HEN	7	574395	7031776	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		Poplar	Thin Moss Cover	Good	Fine	
1192204	HEN	7	574396	7031828	6/3/2011	Dark Olivine Green	Sand	Damp	Subtle Slope	70 C		Poplar	Thin Moss Cover	Good	Fine	
1192205	HEN	7	574396	7031828	6/3/2011	Dark Olivine Green	Sand	Damp	Subtle Slope	70 C		Poplar	Thin Moss Cover	Good	Fine	
1192206	HEN	7	574402	7031878	6/3/2011	Dark Olivine Green	Sand	Damp	Flat	30 C		Poplar	Thin Moss Cover	Good	Fine	
1192207	HEN	7	574404	7031724	6/3/2011	Dark Olivine Green	Sand	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Good	Fine	
1192208	HEN	7	574389	7029931	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	70 C		Old Burn	Leaf Cover	Good	Clay	
1192209	HEN	7	574437	7029945	6/3/2011	Chocolate Brown	Clay	Damp	Flat	70 B		Old Burn	Grass Cover	Good	Clay	
1192210	HEN	7	574461	7029977	6/3/2011	Chocolate Brown	Clay	Damp	Flat	40 B		Old Burn	Grass Cover	Poor	Mud	
1192211	HEN	7	575229	7030977	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Willows	Sphagnum Moss > 30cm	Excellent	Coarse	
1192212	HEN	7	575242	7030929	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1192213	HEN	7	574505	7030022	6/3/2011	Reddish Brown	Sand	Dry	Flat	60 C		Old Burn	Grass Cover	Good	Sand	
1192214	HEN	7	575219	7030882	6/3/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	60 B		Black Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1192215	HEN	7	575190	7030842	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Rocky	
1192216	HEN	7	575410	7031272	6/3/2011	Dark Blue Black	Clay	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Rocky	
1192217	HEN	7	575390	7031225	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1192218	HEN	7	575336	7031142	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1192219	HEN	7	575436	7031315	6/3/2011	Chocolate Brown	Clay	Dry	Flat	50 C		Birch Forest	Thin Moss Cover	Excellent	Rocky	
1192220	HEN	7	575367	7031181	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1192221	HEN	7	577070	7032387	6/3/2011	Reddish Yellow	Sand	Damp	Flat	40 C		White Spruce	Thin Moss Cover	Good	Coarse	
1192222	HEN	7	577150	7032529	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		White Spruce	Leaf Cover	Good	Coarse	
1192223	HEN	7	577113	7032495	6/3/2011	Reddish Yellow	Sand	Damp	Flat	40 C		White Spruce	Thin Moss Cover	Good	Coarse	
1192224	HEN	7	577205	7032728	6/3/2011	Reddish Yellow	Sand	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1192225	HEN	7	577208	7032850	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Leaf Cover	Good	Coarse	
1192226	HEN	7	586524	7023712	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192228	HEN	7	586680	7023700	6/8/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 C		Birch Forest	Sphagnum Moss < 30cm	Good	Rocky	
1192229	HEN	7	576943	7032114	6/3/2011	Reddish Yellow	Sand	Damp	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Fine	
1192230	HEN	7	574560	7030034	6/3/2011	Reddish Brown	Sand	Dry	Flat	70 C		Old Burn	Grass Cover	Good	Sand	
1192231	HEN	7	576905	7032034	6/3/2011	Bluish Grey	Sand	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Coarse	
1192232	HEN	7	576963	7032160	6/3/2011	Dark Grey Black	Sand	Damp	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Excellent	Coarse	
1192233	HEN	7	575167	7029456	6/3/2011	Reddish Orange	Silt	Dry	Subtle Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Sand	Fine
1192234	HEN	7	575237	7029370	6/3/2011	Dark Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	Coarse
1192235	HEN	7	575328	7029232	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Alders	Sphagnum Moss < 30cm	Poor	Sand	Frozen
1192236	HEN	7	575510	7029043	6/3/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Leaf Cover	Excellent	Sand	Coarse
1192237	HEN	7	575476	7029080	6/3/2011	Reddish Yellow	Silt	Dry	Flat	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Sand	Fine

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1192238	HEN	7	574044	7029484	6/3/2011	Dark Blue Black	Clay	Dry	Flat	50 C		Old Burn	Grass Cover	Good	Clay	
1192239	HEN	7	574074	7029523	6/3/2011	Chocolate Brown	Clay	Damp	Flat	50 C		Old Burn	Grass Cover	Good	Rocky	
1192240	HEN	7	574080	7029590	6/3/2011	Chocolate Brown	Gravel	Dry	Flat	60 C		Old Burn	Thin Moss Cover	Good	Rocky	
1192241	HEN	7	574083	7029661	6/3/2011	Chocolate Brown	Clay	Damp	Flat	50 B		Old Burn	Thin Moss Cover	Good	Rocky	
1192242	HEN	7	574100	7029722	6/3/2011	Reddish Orange	Sand	Dry	Flat	60 C		Old Burn	Thin Moss Cover	Good	Sand	
1192243	HEN	7	574143	7029754	6/3/2011	Reddish Brown	Sand	Dry	Flat	60 C		Old Burn	Grass Cover	Good	Sand	
1192244	HEN	7	574185	7029778	6/3/2011	Reddish Orange	Sand	Dry	Flat	60 C		Old Burn	Leaf Cover	Good	Sand	
1192245	HEN	7	582064	7024964	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1192246	HEN	7	575314	7031097	6/3/2011	Dark Brown	Gravel	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1192247	HEN	7	574216	7029825	6/3/2011	Reddish Yellow	Sand	Damp	Flat	50 C		Old Burn	Thin Moss Cover	Good	Mud	
1192248	HEN	7	574255	7029857	6/3/2011	Chocolate Brown	Clay	Damp	Flat	40 B		Old Burn	Thin Moss Cover	Poor	Rocky	
1192249	HEN	7	574296	7029887	6/3/2011	Reddish Yellow	Sand	Dry	Flat	70 C		Old Burn	Grass Cover	Good	Sand	
1192250	HEN	7	574338	7029914	6/3/2011	Reddish Brown	Sand	Dry	Flat	50 C		Old Burn	Thin Moss Cover	Good	Sand	
1192251	HEN	7	588935	7021471	6/9/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Fine	Rocky
1192252	HEN	7	580404	7028524	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Quartz Chips	Coarse
1192253	HEN	7	575569	7028975	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	Fine
1192254	HEN	7	575198	7029410	6/3/2011	Bluish Grey	Silt	Dry	Subtle Slope	80 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Fine
1192255	HEN	7	575266	7029353	6/3/2011	Dark Brown	Sand	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Poor	Organic 10%	Coarse
1192256	HEN	7	575293	7029295	6/3/2011	Light Brown	Gravel	Damp	Flat	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Frozen	Quartz Chips
1192258	HEN	7	575373	7029198	6/3/2011	Dark Brown	Gravel	Damp	Subtle Slope	50 C		Alders	Sphagnum Moss < 30cm	Excellent	Sand	Coarse
1192259	HEN	7	575440	7029116	6/3/2011	Chocolate Brown	Silt	Wet	Flat	20 B		Alders	Sphagnum Moss < 30cm	Poor	Sand	Partially Frozen
1192260	HEN	7	575398	7029159	6/3/2011	Dark Blue Black	Clay	Wet	Subtle Slope	10 B		Alders	Sphagnum Moss < 30cm	Poor	Sand	Partially Frozen
1192261	HEN	7	589160	7021235	6/9/2011	Dark Grey Black	Silt	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Rocky
1192262	HEN	7	580292	7028352	6/4/2011	Reddish Yellow	Sand	Damp	Flat	50 C		White Spruce	Needle Cover	Excellent	Coarse	Clay
1192263	HEN	7	580267	7028309	6/4/2011	Reddish Yellow	Sand	Damp	Flat	50 C		Birch Forest	Leaf Cover	Excellent	Coarse	Clay
1192264	HEN	7	574696	7030076	6/3/2011	Reddish Brown	Sand	Damp	Flat	90 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	Clay
1192265	HEN	7	580057	7027913	6/4/2011	Dark Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Needle Cover	Excellent	Coarse	Rocky
1192266	HEN	7	580331	7028440	6/4/2011	Dark Olivine Green	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Sand
1192267	HEN	7	580319	7028406	6/4/2011	Dark Brown	Clay	Wet	Flat	20 B		Birch Forest	Sphagnum Moss < 30cm	Poor	Sand	Partially Frozen
1192269	HEN	7	574788	7029970	6/3/2011	Chocolate Brown	Clay	Wet	Flat	20 B		Birch Forest	Sphagnum Moss < 30cm	Poor	Frozen	Fine
1192270	HEN	7	574804	7029923	6/3/2011	Chocolate Brown	Sand	Dry	Flat	60 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Quartz Chips	Coarse
1192271	HEN	7	574839	7029897	6/3/2011	Dark Olivine Green	Gravel	Wet	Flat	50 C		Alders	Sphagnum Moss < 30cm	Excellent	Coarse	Sand
1192272	HEN	7	574873	7029860	6/3/2011	Greyish Green	Sand	Dry	Flat	40 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	Sand
1192273	HEN	7	575101	7029525	6/3/2011	Chocolate Brown	Silt	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Sand	Partially Frozen
1192274	HEN	7	575140	7029488	6/3/2011	Dark Olivine Green	Sand	Dry	Subtle Slope	50 C		White Spruce	Grass Cover	Excellent	Coarse	Sand
1192275	HEN	7	575081	7029560	6/3/2011	Dark Olivine Green	Sand	Damp	Subtle Slope	50 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1192276	HEN	7	575041	7029623	6/3/2011	Dark Olivine Green	Sand	Damp	Subtle Slope	60 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Sand	Coarse
1192277	HEN	7	575027	7029652	6/3/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 B		Birch Forest	Sphagnum Moss < 30cm	Poor	Fine	Fine
1192278	HEN	7	574987	7029704	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1192279	HEN	7	574928	7029777	6/3/2011	Light Brown	Silt	Wet	Subtle Slope	40 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Sand	Fine
1192280	HEN	7	574957	7029725	6/3/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Sphagnum Moss > 30cm	Excellent	Coarse	Coarse
1192281	HEN	7	574890	7029814	6/3/2011	Dark Brown	Clay	Wet	Subtle Slope	20 B		Birch Forest	Sphagnum Moss < 30cm	Good	Wet Soil	Fine
1192282	HEN	7	574724	7030041	6/3/2011	Reddish Brown	Silt	Damp	Flat	70 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	Mud
1192283	HEN	7	580431	7028560	6/4/2011	Bluish Grey	Sand	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1192284	HEN	7	580356	7028499	6/4/2011	Reddish Brown	Silt	Dry	Subtle Slope	30 B		Poplar	Leaf Cover	Good	Sand	Fine
1192285	HEN	7	587277	7021918	6/8/2011	Chocolate Brown	Sand	Dry	Flat	40 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1192286	HEN	7	579350	7029005	6/4/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1192287	HEN	7	579350	7029005	6/4/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1192288	HEN	7	579380	7029047	6/4/2011	Reddish Brown	Sand	Damp	Pronounced Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192289	HEN	7	579420	7029076	6/4/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 B		White Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1192290	HEN	7	579432	7029124	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		White Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192291	HEN	7	579450	7029170	6/4/2011	Reddish Brown	Gravel	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192292	HEN	7	579491	7029203	6/4/2011	Bluish Grey	Gravel	Dry	Pronounced Slope	40 C		Poplar	Sphagnum Moss > 30cm	Good	Coarse	
1192293	HEN	7	581601	7028997	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 B		Poplar	Thin Moss Cover	Poor	Organic 10%	Rocky
1192294	HEN	7	581588	7029048	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 B		Poplar	Thin Moss Cover	Good	Rocky	
1192295	HEN	7	581555	7029093	6/4/2011	Reddish Yellow	Gravel	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1192296	HEN	7	581519	7029138	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 B		Poplar	Grass Cover	Poor	Coarse	
1192297	HEN	7	581462	7029156	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Pine	Sphagnum Moss < 30cm	Poor	Rocky	
1192298	HEN	7	581402	7029155	6/4/2011	Greyish Green	Sand	Damp	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1192299	HEN	7	581359	7029193	6/4/2011	Grey	Sand	Damp	Subtle Slope	50 C		Pine	Sphagnum Moss < 30cm	Excellent	Coarse	
1192300	HEN	7	581301	7029188	6/4/2011	Dark Grey Black	Gravel	Damp	Subtle Slope	40 C		Pine	Sphagnum Moss < 30cm	Excellent	Partially Frozen	
1192301	HEN	7	586354	7026050	6/6/2011	Dark Brown	Sand	Wet	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192302	HEN	7	586387	7026010	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192304	HEN	7	586485	7025964	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192305	HEN	7	586513	7025926	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192306	HEN	7	584871	7023417	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	80 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1192307	HEN	7	585491	7023267	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	80 C		Birch Forest	Needle Cover	Excellent	Coarse	
1192308	HEN	7	585306	7023194	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1192309	HEN	7	586628	7023706	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192312	HEN	7	586339	7026106	6/6/2011	Chocolate Brown	Sand	Wet	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192313	HEN	7	586249	7026157	6/6/2011	Chocolate Brown	Sand	Wet	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1192314	HEN	7	586207	7026170	6/6/2011	Chocolate Brown	Sand	Wet	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1192315	HEN	7	586120	7026238	6/6/2011	Dark Brown	Sand	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1192316	HEN	7	586077	7026279	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192317	HEN	7	586033	7026314	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192318	HEN	7	585979	7026335	6/6/2011	Dark Brown	Sand	Damp	Flat	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192319	HEN	7	585947	7026370	6/6/2011	Dark Brown	Sand	Damp	Subtle Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192320	HEN	7	585898	7026385	6/6/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192321	HEN	7	585833	7026405	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Subalpine Fir	Sphagnum Moss < 30cm	Good	Coarse	Frozen
1192322	HEN	7	585677	7026468	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Subalpine Fir	Sphagnum Moss < 30cm	Good	Coarse	
1192323	HEN	7	585566	7026438	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192324	HEN	7	585603	7026426	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192325	HEN	7	585478	7026470	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 B		Subalpine Fir	Sphagnum Moss < 30cm	Good	Rocky	
1192326	HEN	7	585436	7026508	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1192327	HEN	7	581875	7025013	6/4/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Excellent	Sand	
1192328	HEN	7	581773	7025028	6/4/2011	Chocolate Brown	Silt	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Good	Fine	Sand
1192329	HEN	7	585781	7026429	6/6/2011	Chocolate Brown	Silt	Damp	Subtle Slope	40 C		Subalpine Fir	Sphagnum Moss > 30cm	Good	Coarse	
1192330	HEN	7	586293	7026129	6/6/2011	Dark Blue Black	Gravel	Wet	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1192331	HEN	7	581629	7025042	6/4/2011	Yellow	Gravel	Damp	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Sand	
1192332	HEN	7	581580	7025052	6/4/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1192333	HEN	7	581531	7025061	6/4/2011	Reddish Yellow	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	
1192334	HEN	7	581480	7025069	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Sand	Coarse
1192335	HEN	7	581176	7025125	6/4/2011	Dark Grey Black	Clay	Dry	Flat	20 B		Poplar	Leaf Cover	Good	Sand	
1192336	HEN	7	581125	7025115	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		White Spruce	Leaf Cover	Good	Sand	Quartz Chips
1192337	HEN	7	580943	7025185	6/4/2011	Greyish Green	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Fine	
1192338	HEN	7	580895	7025193	6/4/2011	Dark Olivine Green	Gravel	Damp	Steep	40 C		Poplar	Leaf Cover	Good	Sand	
1192339	HEN	7	583870	7025598	6/6/2011	Dark Grey Black	Clay	Wet	Subtle Slope	20 B		Black Spruce	Thin Moss Cover	Good	Partially Frozen	
1192340	HEN	7	583585	7025788	6/6/2011	Reddish Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1192341	HEN	7	583585	7025788	6/6/2011	Reddish Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1192342	HEN	7	586588	7024616	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192343	HEN	7	586389	7024651	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1192344	HEN	7	583758	7025691	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	30 B		Poplar	Leaf Cover	Good	Fine	
1192345	HEN	7	583828	7025624	6/6/2011	Dark Grey Black	Clay	Wet	Subtle Slope	20 B		Black Spruce	Sphagnum Moss > 30cm	Poor	Frozen	
1192346	HEN	7	586238	7024667	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Good	Coarse	
1192347	HEN	7	580978	7025150	6/4/2011	Reddish Yellow	Gravel	Dry	Pronounced Slope	40 C		No Tree Cover	Leaf Cover	Good	Sand	
1192348	HEN	7	581027	7025129	6/4/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Sand	
1192349	HEN	7	582158	7024928	6/4/2011	Chocolate Brown	Gravel	Dry	Flat	40 C		Poplar	Leaf Cover	Good	Sand	
1192350	HEN	7	582116	7024954	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	70 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1192351	HEN	7	581619	7028941	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	30 B		Poplar	Thin Moss Cover	Poor	Rocky	
1192352	HEN	7	581655	7028897	6/4/2011	Dark Brown	Gravel	Dry	Pronounced Slope	40 B		Pine	Sphagnum Moss < 30cm	Good	Organic 10%	Rocky
1192353	HEN	7	581678	7028843	6/4/2011	Grey	Gravel	Damp	Pronounced Slope	40 B		Pine	Sphagnum Moss < 30cm	Poor	Rocky	
1192354	HEN	7	581723	7028816	6/4/2011	Grey	Gravel	Damp	Pronounced Slope	70 C		Pine	Sphagnum Moss < 30cm	Excellent	Organic 10%	
1192355	HEN	7	587615	7026219	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1192356	HEN	7	581780	7028776	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	70 C		Pine	Needle Cover	Excellent	Sand	
1192357	HEN	7	581822	7028754	6/4/2011	Yellow	Sand	Damp	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1192358	HEN	7	581869	7028735	6/4/2011	Bluish Grey	Gravel	Damp	Pronounced Slope	40 C		Pine	Sphagnum Moss < 30cm	Good	Organic 10%	
1192359	HEN	7	581916	7028708	6/4/2011	Grey	Sand	Dry	Pronounced Slope	70 C		Pine	Grass Cover	Excellent	Sand	
1192360	HEN	7	581964	7028693	6/4/2011	Dark Olivine Green	Gravel	Dry	Pronounced Slope	60 C		Poplar	Grass Cover	Excellent	Rocky	
1192361	HEN	7	582018	7028680	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Pine	Grass Cover	Good	Sand	
1192362	HEN	7	582050	7028643	6/4/2011	Dark Brown	Gravel	Damp	Pronounced Slope	50 B		Pine	Sphagnum Moss < 30cm	Good	Rocky	
1192363	HEN	7	582089	7028612	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Grass Cover	Excellent	Coarse	
1192364	HEN	7	582137	7028594	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Good	Rocky	
1192365	HEN	7	582152	7028546	6/4/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	30 B		Pine	Sphagnum Moss < 30cm	Good	Rocky	
1192366	HEN	7	582210	7028384	6/4/2011	Dark Grey Black	Gravel	Damp	Subtle Slope	40 B		Poplar	Sphagnum Moss > 30cm	Good	Rocky	
1192367	HEN	7	582246	7028345	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Pine	Sphagnum Moss < 30cm	Good	Rocky	
1192368	HEN	7	582286	7028310	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	70 C		Pine	Sphagnum Moss < 30cm	Excellent	Rocky	
1192369	HEN	7	582316	7028261	6/4/2011	Reddish Brown	Gravel	Damp	Subtle Slope	60 C		Pine	Sphagnum Moss < 30cm	Excellent	Rocky	
1192370	HEN	7	582370	7028245	6/4/2011	Dark Brown	Gravel	Wet	Subtle Slope	40 B		Pine	Grass Cover	Poor	Organic 25%	Frozen
1192371	HEN	7	587575	7026260	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1192372	HEN	7	587542	7026303	6/6/2011	Dark Blue Black	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Thin Moss Cover	Good	Rocky	
1192373	HEN	7	587503	7026350	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Fine	
1192374	HEN	7	587477	7026392	6/6/2011	Light Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1192375	HEN	7	582420	7028223	6/4/2011	Dark Brown	Gravel	Wet	Subtle Slope	40 B		Pine	Sphagnum Moss < 30cm	Poor	Organic 25%	Frozen
1192376	HEN	7	582420	7028223	6/4/2011	Dark Brown	Gravel	Wet	Subtle Slope	40 B		Pine	Sphagnum Moss < 30cm	Poor	Organic 25%	Frozen
1192378	HEN	7	585203	7026696	6/6/2011	Reddish Yellow	Sand	Damp	Subtle Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192379	HEN	7	585358	7026586	6/6/2011	Chocolate Brown	Silt	Damp	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192380	HEN	7	579670	7029385	6/4/2011	Light Brown	Sand	Dry	Pronounced Slope	10 B		Black Spruce	Bare Soil	Good	Top layer	Fine
1192381	HEN	7	579559	7029277	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	20 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192382	HEN	7	585732	7026464	6/6/2011	Dark Brown	Clay	Damp	Pronounced Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192383	HEN	7	586162	7026200	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1192384	HEN	7	585398	7026549	6/6/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		White Spruce	Thin Moss Cover	Good	Coarse	
1192386	HEN	7	585285	7026590	6/6/2011	Bluish Grey	Sand	Damp	Pronounced Slope	70 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1192387	HEN	7	585252	7026668	6/6/2011	Chocolate Brown	Silt	Damp	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192388	HEN	7	581967	7024982	6/4/2011	Light Brown	Gravel	Damp	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Sand	
1192389	HEN	7	581927	7025012	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1192390	HEN	7	582116	7024954	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	70 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1192391	HEN	7	582013	7024960	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1192392	HEN	7	581825	7025018	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Clay	Partially Frozen
1192393	HEN	7	581729	7025051	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		White Spruce	Leaf Cover	Good	Clay	
1192394	HEN	7	581679	7025047	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1192395	HEN	7	581431	7025082	6/4/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 B		White Spruce	Sphagnum Moss < 30cm	Good	Frozen	
1192396	HEN	7	581377	7025086	6/4/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 B		White Spruce	Sphagnum Moss < 30cm	Good	Clay	Frozen
1192397	HEN	7	581328	7025106	6/4/2011	Dark Grey Black	Clay	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Poor	Sand	Frozen
1192398	HEN	7	581279	7025115	6/4/2011	Chocolate Brown	Sand	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Good	Big Round Boulders	Frozen
1192399	HEN	7	581229	7025118	6/4/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1192400	HEN	7	581073	7025111	6/4/2011	Reddish Orange	Gravel	Damp	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1192433	HEN	7	584842	7023479	6/7/2011	Chocolate Brown	Sand	Dry	Flat	50 B		Birch Forest	Leaf Cover	Good	Sand	
1192434	HEN	7	583915	7023479	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 B		Birch Forest	Leaf Cover	Good	Quartz Chips	Partially Frozen
1192435	HEN	7	586740	7024250	6/8/2011	Chocolate Brown	Clay	Wet	Flat	20 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Sand	Partially Frozen
1192436	HEN	7	585054	7023319	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	70 C		Dwarf Birch	Thin Moss Cover	Good	Coarse	
1192437	HEN	7	584786	7023516	6/7/2011	Chocolate Brown	Gravel	Damp	Flat	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1192438	HEN	7	585154	7023228	6/7/2011	Greyish Green	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Sand	
1192439	HEN	7	584189	7023542	6/7/2011	Reddish Yellow	Sand	Damp	Subtle Slope	70 C		Black Spruce	Leaf Cover	Excellent	Quartz Chips	Fine
1192440	HEN	7	583829	7023414	6/7/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	70 C		Birch Forest	Leaf Cover	Good	Coarse	Quartz Chips
1192441	HEN	7	586752	7024201	6/8/2011	Reddish Yellow	Sand	Dry	Flat	40 C		White Spruce	Reindeer Moss	Good	Coarse	
1192442	HEN	7	584307	7023517	6/7/2011	Dark Blue Black	Gravel	Wet	Subtle Slope	30 B		Birch Forest	Leaf Cover	Good	Quartz Chips	Small Sample
1192444	HEN	7	586683	7024441	6/8/2011	Dark Brown	Sand	Damp	Subtle Slope	50 C		Alders	Leaf Cover	Good	Coarse	
1192445	HEN	7	588053	7023600	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 A		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1192451	HEN	7	579697	7029427	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1192452	HEN	7	579737	7029459	6/4/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192453	HEN	7	579766	7029498	6/4/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	60 C		Poplar	Thin Moss Cover	Good	Fine	
1192455	HEN	7	579807	7029526	6/4/2011	Reddish Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Bare Soil	Good	Coarse	
1192456	HEN	7	579842	7029564	6/4/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 B		White Spruce	Needle Cover	Good	Fine	
1192457	HEN	7	579875	7029602	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	30 B		Poplar	Thin Moss Cover	Good	Fine	
1192458	HEN	7	579906	7029642	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1192459	HEN	7	579948	7029669	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192460	HEN	7	579965	7029717	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192461	HEN	7	580001	7029751	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 B		Poplar	Sphagnum Moss > 30cm	Good	Fine	
1192462	HEN	7	580025	7029793	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1192463	HEN	7	580058	7029827	6/4/2011	Chocolate Brown	Clay	Dry	Pronounced Slope	50 B		Poplar	Leaf Cover	Good	Coarse	
1192464	HEN	7	584189	7023542	6/7/2011	Reddish Yellow	Sand	Damp	Subtle Slope	70 C		Black Spruce	Leaf Cover	Excellent	Quartz Chips	Fine
1192465	HEN	7	587423	7021782	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		Black Spruce	Reindeer Moss	Good	Clay	
1192466	HEN	7	587373	7021803	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Needle Cover	Good	Coarse	
1192467	HEN	7	587343	7021844	6/8/2011	Chocolate Brown	Gravel	Damp	Flat	30 C		Black Spruce	Reindeer Moss	Good	Coarse	
1192468	HEN	7	587317	7021890	6/8/2011	Chocolate Brown	Clay	Damp	Flat	20 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1192469	HEN	7	580088	7029866	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Bare Soil	Good	Fine	
1192470	HEN	7	580121	7029905	6/4/2011	Dark Grey Black	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192471	HEN	7	580158	7029938	6/4/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1192472	HEN	7	580196	7029970	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192473	HEN	7	580238	7029999	6/4/2011	Dark Olivine Green	Sand	Dry	Subtle Slope	50 C		Black Spruce	Leaf Cover	Good	Fine	
1192474	HEN	7	580272	7030037	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1192475	HEN	7	580311	7030069	6/4/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192476	HEN	7	580349	7030102	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1192477	HEN	7	580384	7030139	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss > 30cm	Good	Partially Frozen	
1192478	HEN	7	584628	7023527	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Quartz Chips	
1192480	HEN	7	584132	7023536	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Good	Sand	
1192483	HEN	7	584950	7023406	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Dwarf Birch	Leaf Cover	Good	Sand	
1192484	HEN	7	584415	7023536	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Rocky	Quartz Chips
1192485	HEN	7	583957	7023510	6/7/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	60 C		Birch Forest	Leaf Cover	Good	Quartz Chips	Coarse
1192486	HEN	7	584895	7023466	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 B		Dwarf Birch	Leaf Cover	Good	Coarse	Partially Frozen
1192487	HEN	7	584250	7023530	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		White Spruce	Leaf Cover	Excellent	Coarse	
1192488	HEN	7	585108	7023267	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Dwarf Birch	Leaf Cover	Excellent	Sand	
1192489	HEN	7	584468	7023532	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Dwarf Birch	Leaf Cover	Excellent	Coarse	Coarse
1192490	HEN	7	583813	7023367	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50 B		Birch Forest	Leaf Cover	Good	Wet Soil	Coarse
1192491	HEN	7	584679	7023522	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Rocky	
1192492	HEN	7	585114	7026759	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		Subalpine Fir	Sphagnum Moss < 30cm	Good	Coarse	
1192493	HEN	7	585154	7026738	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Clay	
1192494	HEN	7	582248	7024879	6/4/2011	Dark Olivine Green	Gravel	Damp	Flat	40 C		Pine	Leaf Cover	Good	Sand	
1192495	HEN	7	582296	7024863	6/4/2011	Chocolate Brown	Sand	Damp	Flat	60 C		Poplar	Leaf Cover	Good	Coarse	
1192496	HEN	7	581187	7029196	6/4/2011	Dark Brown	Gravel	Wet	Subtle Slope	30 B		Pine	Sphagnum Moss < 30cm	Poor	Frozen	
1192497	HEN	7	581243	7029199	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Pine	Sphagnum Moss < 30cm	Good	Frozen	Organic 10%
1192498	HEN	7	580425	7030171	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Coarse	
1192499	HEN	7	580465	7030201	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	20 B		Black Spruce	Thin Moss Cover	Poor	Partially Frozen	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1192500	HEN	7	580703	7029818	6/4/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193173	HEN	7	577037	7029064	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1193174	HEN	7	577025	7029018	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 C		Black Spruce	Leaf Cover	Excellent	Fine	
1193175	HEN	7	577024	7028969	6/3/2011	Reddish Brown	Sand	Dry	Pronounced Slope	70 C		Black Spruce	Thin Moss Cover	Excellent	Fine	
1193176	HEN	7	577013	7028901	6/3/2011	Chocolate Brown	Clay	Dry	Subtle Slope	40 C		Black Spruce	Leaf Cover	Good	Coarse	
1193177	HEN	7	576999	7028856	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193178	HEN	7	577000	7028808	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	20 C		Black Spruce	Sphagnum Moss < 30cm	Poor	Small Sample	Organic 10%
1193183	HEN	7	577037	7029064	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1193185	HEN	7	577050	7029111	6/3/2011	Dark Brown	Sand	Damp	Pronounced Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1193186	HEN	7	577055	7029160	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1193187	HEN	7	577053	7029209	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Leaf Cover	Excellent	Sand	
1193188	HEN	7	577051	7029256	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1193189	HEN	7	577051	7029307	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1193191	HEN	7	577074	7029355	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1193501	HEN	7	586490	7024635	6/6/2011	Dark Brown	Gravel	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Coarse
1193502	HEN	7	586539	7024624	6/6/2011	Reddish Brown	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193503	HEN	7	586635	7024596	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Poor	Clay	Frozen
1193504	HEN	7	583923	7025573	6/6/2011	Dark Grey Black	Clay	Wet	Subtle Slope	20 B		Black Spruce	Thin Moss Cover	Good	Mud	
1193505	HEN	7	583967	7025561	6/6/2011	Dark Grey Black	Clay	Damp	Subtle Slope	30 B		Black Spruce	Thin Moss Cover	Good	Fine	
1193506	HEN	7	582837	7022206	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Poplar	Sphagnum Moss > 30cm	Good	Coarse	
1193507	HEN	7	582837	7022206	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Poplar	Sphagnum Moss > 30cm	Good	Coarse	
1193508	HEN	7	582835	7022257	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 B		Poplar	Bare Soil	Good	Fine	
1193509	HEN	7	582837	7022155	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Poplar	Leaf Cover	Good	Coarse	
1193510	HEN	7	582934	7022636	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Alders	Sphagnum Moss > 30cm	Good	Fine	
1193511	HEN	7	582837	7022155	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Poplar	Leaf Cover	Good	Coarse	
1193512	HEN	7	582837	7022310	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Good	Coarse	
1193513	HEN	7	582836	7022361	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	60 B		Poplar	Leaf Cover	Good	Mud	
1193514	HEN	7	582974	7022665	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Alders	Leaf Cover	Good	Fine	
1193515	HEN	7	583017	7022686	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		Poplar	Leaf Cover	Good	Coarse	
1193516	HEN	7	582840	7022409	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Good	Coarse	
1193517	HEN	7	582902	7022595	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1193518	HEN	7	582876	7022552	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	60 B		Birch Forest	Leaf Cover	Good	Fine	
1193519	HEN	7	583665	7023029	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Birch Forest	Sphagnum Moss > 30cm	Good	Fine	
1193520	HEN	7	583060	7022720	6/7/2011	Reddish Brown	Sand	Dry	Flat	60 C		Birch Forest	Leaf Cover	Good	Coarse	
1193521	HEN	7	583109	7022732	6/7/2011	Dark Blue Black	Clay	Damp	Subtle Slope	40 B		Black Spruce	Thin Moss Cover	Good	Coarse	
1193522	HEN	7	583204	7022757	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1193523	HEN	7	583155	7022753	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 C		Poplar	Sphagnum Moss > 30cm	Good	Coarse	
1193524	HEN	7	583250	7022774	6/7/2011	Dark Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Sphagnum Moss > 30cm	Good	Fine	
1193525	HEN	7	584016	7025550	6/6/2011	Dark Grey Black	Clay	Damp	Subtle Slope	20 B		Birch Forest	Sphagnum Moss > 30cm	Good	Frozen	
1193526	HEN	7	583600	7022948	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Birch Forest	Leaf Cover	Good	Fine	
1193527	HEN	7	583300	7022780	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Alders	Leaf Cover	Good	Fine	
1193528	HEN	7	583386	7022826	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Birch Forest	Sphagnum Moss > 30cm	Good	Fine	
1193529	HEN	7	583564	7022916	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Birch Forest	Leaf Cover	Good	Fine	
1193530	HEN	7	583345	7022799	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Fine	
1193531	HEN	7	583634	7022990	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Dwarf Birch	Leaf Cover	Good	Coarse	
1193532	HEN	7	583429	7022849	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Alders	Sphagnum Moss > 30cm	Good	Fine	
1193533	HEN	7	583474	7022872	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1193534	HEN	7	584066	7025535	6/6/2011	Dark Brown	Gravel	Damp	Pronounced Slope	60 B		Poplar	Sphagnum Moss > 30cm	Good	Fine	
1193535	HEN	7	583521	7022889	6/7/2011	Reddish Brown	Clay	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1193536	HEN	7	584117	7025521	6/6/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193537	HEN	7	587066	7023381	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Quartz Chips	
1193538	HEN	7	587522	7025045	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Rocky	Coarse
1193539	HEN	7	583795	7023177	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Birch Forest	Leaf Cover	Good	Coarse	
1193540	HEN	7	583852	7023260	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Fine	
1193541	HEN	7	582852	7022506	6/7/2011	Dark Brown	Clay	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1193542	HEN	7	587519	7024985	6/6/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193543	HEN	7	582840	7022459	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1193544	HEN	7	583821	7023218	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Coarse	
1193545	HEN	7	583769	7023136	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Fine	
1193546	HEN	7	587531	7025094	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1193547	HEN	7	583736	7023100	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	20 B		Birch Forest	Leaf Cover	Good	Fine	
1193548	HEN	7	583701	7023065	6/7/2011	Grey	Gravel	Wet	Subtle Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Mud	
1193549	HEN	7	587534	7025163	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1193550	HEN	7	587555	7025197	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Poplar	Sphagnum Moss < 30cm	Good	Coarse	
1193551	HEN	7	586802	7025767	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Frozen	
1193553	HEN	7	586540	7025900	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	70 B		Black Spruce	Sphagnum Moss < 30cm	Good	Quartz Chips	
1193554	HEN	7	586631	7025855	6/6/2011	Light Brown	Sand	Dry	Subtle Slope	90 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Partially Frozen
1193555	HEN	7	586631	7025855	6/6/2011	Light Brown	Sand	Dry	Subtle Slope	90 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Partially Frozen
1193556	HEN	7	586674	7025834	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Partially Frozen	Sand
1193557	HEN	7	586585	7025874	6/6/2011	Light Brown	Clay	Damp	Subtle Slope	60 B		White Spruce	Sphagnum Moss < 30cm	Good	Clay	
1193558	HEN	7	586719	7025805	6/6/2011	Reddish Yellow	Gravel	Wet	Subtle Slope	50 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1193559	HEN	7	586760	7025793	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	110	C	Black Spruce	Sphagnum Moss < 30cm	Excellent	Sand	
1193560	HEN	7	586760	7025793	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	110	C	Black Spruce	Sphagnum Moss < 30cm	Excellent	Sand	
1193561	HEN	7	586860	7025744	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50	B	Birch Forest	Leaf Cover	Good	Fine	
1193562	HEN	7	587052	7025707	6/6/2011	Greyish Green	Gravel	Damp	Pronounced Slope	60	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193563	HEN	7	586958	7025722	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50	B	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Wet Soil
1193564	HEN	7	587162	7025681	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	60	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193565	HEN	7	587011	7025720	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	60	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193566	HEN	7	587563	7025423	6/6/2011	Reddish Yellow	Gravel	Dry	Flat	50	C	Birch Forest	Thin Moss Cover	Excellent	Coarse	Quartz Chips
1193567	HEN	7	587570	7025353	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	60	B	Poplar	Leaf Cover	Good	Coarse	
1193568	HEN	7	587210	7025680	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	60	C	Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1193569	HEN	7	586887	7025730	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50	C	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1193571	HEN	7	587566	7025301	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60	C	Poplar	Leaf Cover	Excellent	Coarse	
1193572	HEN	7	587115	7025696	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40	B	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193573	HEN	7	587566	7025301	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60	C	Poplar	Leaf Cover	Excellent	Coarse	
1193574	HEN	7	587297	7025660	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50	C	Black Spruce	Thin Moss Cover	Excellent	Coarse	Quartz Chips
1193575	HEN	7	587412	7025629	6/6/2011	Chocolate Brown	Gravel	Dry	Flat	70	C	Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1193576	HEN	7	587361	7025647	6/6/2011	Bluish Grey	Gravel	Dry	Subtle Slope	50	B	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1193577	HEN	7	587456	7025613	6/6/2011	Dark Brown	Gravel	Damp	Subtle Slope	50	B	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Coarse
1193578	HEN	7	587544	7025575	6/6/2011	Chocolate Brown	Gravel	Damp	Flat	60	B	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Coarse
1193579	HEN	7	587551	7025472	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50	B	Black Spruce	Thin Moss Cover	Good	Coarse	
1193580	HEN	7	587500	7025598	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50	B	Black Spruce	Sphagnum Moss < 30cm	Good	Clay	
1193581	HEN	7	587552	7025522	6/6/2011	Reddish Yellow	Gravel	Wet	Flat	40	B	Black Spruce	Sphagnum Moss < 30cm	Good	Wet Soil	Rocky
1193582	HEN	7	587569	7025249	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60	C	White Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1193583	HEN	7	585250	7025250	6/6/2011	Reddish Yellow	Sand	Damp	Pronounced Slope	50	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	Quartz Chips
1193584	HEN	7	585343	7025210	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193585	HEN	7	585297	7025234	6/6/2011	Dark Grey Black	Sand	Dry	Pronounced Slope	30	C	White Spruce	Needle Cover	Good	Coarse	
1193586	HEN	7	585434	7025166	6/6/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	Quartz Chips
1193587	HEN	7	585521	7025114	6/6/2011	Chocolate Brown	Sand	Dry	Flat	40	C	Poplar	Leaf Cover	Good	Fine	
1193588	HEN	7	585739	7024977	6/6/2011	Light Brown	Gravel	Wet	Subtle Slope	30	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193589	HEN	7	585929	7024824	6/6/2011	Bluish Grey	Gravel	Damp	Pronounced Slope	30	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193590	HEN	7	585973	7024799	6/6/2011	Dark Brown	Sand	Damp	Flat	50	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193591	HEN	7	586091	7024711	6/6/2011	Chocolate Brown	Sand	Damp	Flat	50	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193592	HEN	7	586138	7024689	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193593	HEN	7	586189	7024687	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	40	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193594	HEN	7	586287	7024657	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193595	HEN	7	586338	7024648	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50	C	White Spruce	Thin Moss Cover	Good	Sand	
1193596	HEN	7	586338	7024648	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50	C	White Spruce	Thin Moss Cover	Good	Sand	
1193601	HEN	7	586440	7024648	6/6/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193602	HEN	7	588227	7023465	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50	B	White Spruce	Leaf Cover	Good	Quartz Chips	Coarse
1193603	HEN	7	588220	7023512	6/8/2011	Bluish Grey	Gravel	Wet	Pronounced Slope	50	B	White Spruce	Sphagnum Moss < 30cm	Good	Wet Soil	Coarse
1193604	HEN	7	588241	7023417	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50	B	White Spruce	Leaf Cover	Good	Sand	
1193605	HEN	7	588212	7023565	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	100	C	White Spruce	Sphagnum Moss < 30cm	Excellent	Quartz Chips	
1193606	HEN	7	588220	7023347	6/8/2011	Bluish Grey	Gravel	Wet	Pronounced Slope	40	A	White Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	Organic 10%
1193608	HEN	7	588287	7023203	6/8/2011	Bluish Grey	Gravel	Dry	Pronounced Slope	30	B	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1193609	HEN	7	586051	7024738	6/6/2011	Dark Olivine Green	Gravel	Damp	Flat	40	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193610	HEN	7	586018	7024776	6/6/2011	Reddish Yellow	Sand	Damp	Subtle Slope	40	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193611	HEN	7	585784	7024953	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50	C	White Spruce	Leaf Cover	Good	Sand	
1193612	HEN	7	585901	7024860	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193613	HEN	7	585859	7024888	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40	C	White Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1193614	HEN	7	585205	7025270	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40	C	White Spruce	Sphagnum Moss > 30cm	Good	Clay	Sand
1193615	HEN	7	585817	7024916	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	30	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	Quartz Chips
1193616	HEN	7	585699	7025008	6/6/2011	Chocolate Brown	Gravel	Damp	Flat	30	C	White Spruce	Leaf Cover	Poor	Clay	
1193617	HEN	7	585653	7025033	6/6/2011	Chocolate Brown	Sand	Damp	Flat	40	C	Birch Forest	Leaf Cover	Good	Clay	
1193618	HEN	7	585390	7025188	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50	C	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193620	HEN	7	585563	7025083	6/6/2011	Reddish Yellow	Gravel	Damp	Flat	40	C	Alders	Leaf Cover	Good	Sand	
1193621	HEN	7	585479	7025143	6/6/2011	Reddish Yellow	Sand	Dry	Flat	40	C	Poplar	Leaf Cover	Excellent	Sand	Quartz Chips
1193622	HEN	7	583722	7025726	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	80	B	Poplar	Leaf Cover	Excellent	Fine	
1193623	HEN	7	583680	7025755	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50	B	Poplar	Sphagnum Moss > 30cm	Good	Fine	
1193624	HEN	7	585612	7025067	6/6/2011	Reddish Yellow	Sand	Damp	Flat	40	C	Birch Forest	Leaf Cover	Good	Clay	
1193627	HEN	7	588263	7023250	6/8/2011	Bluish Grey	Gravel	Damp	Pronounced Slope	40	B	Birch Forest	Leaf Cover	Good	Partially Frozen	Organic 10%
1193637	HEN	7	588248	7023308	6/8/2011	Bluish Grey	Gravel	Dry	Pronounced Slope	50	B	White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1193660	HEN	7	584942	7027350	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50	B	Black Spruce	Reindeer Moss	Good	Coarse	Partially Frozen
1193661	HEN	7	584914	7027446	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	60	C	Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	Coarse
1193662	HEN	7	584897	7027494	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40	C	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193663	HEN	7	584891	7027545	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50	C	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1193664	HEN	7	584936	7027399	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50	C	Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1193690	HEN	7	583630	7025765	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	30	B	Poplar	Leaf Cover	Good	Coarse	
1193770	HEN	7	584573	7023530	6/7/2011	Dark Blue Black	Gravel	Damp	Subtle Slope	50	B	Birch Forest	Sphagnum Moss < 30cm	Good	Small Sample	Rocky
1193777	HEN	7	585128	7023066	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	60	C	Birch Forest	Thin Moss Cover	Good	Coarse	
1193779	HEN	7	585159	7023111	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50	C	Birch Forest	Thin Moss Cover	Good	Coarse	
1193780	HEN	7	586506	7026778	6/7/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	40	B	Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Fine



Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1193782	HEN	7	586576	7026687	6/7/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Small Sample
1193801	HEN	7	587014	7023349	6/8/2011	Dark Blue Black	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1193952	HEN	7	589667	7020142	6/9/2011	Light Brown	Sand	Damp	Flat	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Small Sample
1193953	HEN	7	589652	7020196	6/9/2011	Dark Brown	Clay	Wet	Flat	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Mud	Partially Frozen
1193954	HEN	7	589661	7020266	6/9/2011	Light Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Quartz Chips
1193955	HEN	7	589661	7020266	6/9/2011	Light Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Quartz Chips
1193956	HEN	7	589652	7020307	6/9/2011	Bluish Grey	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Quartz Chips
1193957	HEN	7	589664	7020358	6/9/2011	Light Brown	Sand	Damp	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Rocky	Coarse
1193958	HEN	7	589668	7020409	6/9/2011	Dark Brown	Silt	Wet	Subtle Slope	40 B		Black Spruce	Reindeer Moss	Good	Fine	Mud
1193960	HEN	7	589692	7020458	6/9/2011	Dark Brown	Gravel	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Rocky
1193961	HEN	7	589695	7020510	6/9/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Sand	Quartz Chips
1193962	HEN	7	589671	7020566	6/9/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	110 C		Poplar	Leaf Cover	Excellent	Rocky	Clay
1193963	HEN	7	589666	7020618	6/9/2011	Bluish Grey	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Quartz Chips	Rocky
1193964	HEN	7	589637	7020667	6/9/2011	Light Brown	Gravel	Dry	Pronounced Slope	30 C		Poplar	Leaf Cover	Excellent	Sand	Quartz Chips
1193965	HEN	7	589612	7020712	6/9/2011	Reddish Yellow	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	Rocky
1193966	HEN	7	589586	7020758	6/9/2011	Bluish Grey	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	Quartz Chips
1193977	HEN	7	589508	7020843	6/9/2011	Grey	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	Clay
1193978	HEN	7	589543	7020797	6/9/2011	Grey	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	Quartz Chips
1193979	HEN	7	589458	7020881	6/9/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Sand	Rocky
1193980	HEN	7	589408	7020911	6/9/2011	Light Brown	Silt	Dry	Subtle Slope	100 C		Poplar	Leaf Cover	Excellent	Quartz Chips	Clay
1193981	HEN	7	589390	7020960	6/9/2011	Yellow	Sand	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Clay	Quartz Chips
1193982	HEN	7	589346	7021015	6/9/2011	Grey	Gravel	Damp	Subtle Slope	40 C		Poplar	Leaf Cover	Excellent	Sand	Quartz Chips
1194001	HEN	7	581934	7027504	6/6/2011	Light Brown	Gravel	Dry	Pronounced Slope	70 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1194002	HEN	7	581904	7027464	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1194003	HEN	7	581887	7027416	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1194004	HEN	7	581864	7027371	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1194005	HEN	7	581839	7027327	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	30 C		Black Spruce	Thin Moss Cover	Good	Rocky	
1194006	HEN	7	581819	7027280	6/6/2011	Chocolate Brown	Clay	Damp	Subtle Slope	90 C		Black Spruce	Thin Moss Cover	Excellent	Rocky	
1194007	HEN	7	581792	7027237	6/6/2011	Light Brown	Gravel	Dry	Pronounced Slope	70 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194008	HEN	7	581749	7027210	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	30 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194009	HEN	7	581700	7027207	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194010	HEN	7	581655	7027184	6/6/2011	Reddish Brown	Sand	Dry	Pronounced Slope	30 C		Poplar	Thin Moss Cover	Good	Rocky	
1194011	HEN	7	581614	7027154	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194012	HEN	7	581565	7027136	6/6/2011	Chocolate Brown	Clay	Dry	Pronounced Slope	50 C		Black Spruce	Thin Moss Cover	Good	Rocky	
1194013	HEN	7	581535	7027095	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C		Black Spruce	Thin Moss Cover	Excellent	Rocky	
1194014	HEN	7	581504	7027054	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194015	HEN	7	581475	7027012	6/6/2011	Chocolate Brown	Clay	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194016	HEN	7	581447	7026969	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194017	HEN	7	581415	7026931	6/6/2011	Chocolate Brown	Clay	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Good	Rocky	
1194487	HEN	7	587028	7022180	6/8/2011	Chocolate Brown	Sand	Dry	Flat	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1194488	HEN	7	587066	7022145	6/8/2011	Chocolate Brown	Gravel	Dry	Flat	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1194489	HEN	7	587093	7022107	6/8/2011	Chocolate Brown	Clay	Dry	Flat	30 B		Black Spruce	Reindeer Moss	Poor	Fine	
1194490	HEN	7	587127	7022066	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1194491	HEN	7	587168	7022037	6/8/2011	Reddish Yellow	Sand	Dry	Flat	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1194492	HEN	7	587438	7021727	6/8/2011	Bluish Grey	Gravel	Dry	Flat	30 C		Poplar	Leaf Cover	Excellent	Coarse	
1194493	HEN	7	587476	7021692	6/8/2011	Chocolate Brown	Gravel	Damp	Flat	40 C		Poplar	Leaf Cover	Good	Coarse	
1194494	HEN	7	587520	7021665	6/8/2011	Dark Olivine Green	Sand	Dry	Flat	40 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	
1194495	HEN	7	587551	7021626	6/8/2011	Bluish Grey	Gravel	Dry	Subtle Slope	30 C		Poplar	Leaf Cover	Good	Coarse	
1194496	HEN	7	587601	7021686	6/8/2011	Dark Olivine Green	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1194497	HEN	7	587641	7021715	6/8/2011	Bluish Grey	Gravel	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1194498	HEN	7	587685	7021741	6/8/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Birch Forest	Sphagnum Moss < 30cm	Poor	Fine	
1194499	HEN	7	587731	7021762	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	20 B		White Spruce	Needle Cover	Poor	Coarse	
1194500	HEN	7	587781	7021767	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1194501	HEN	7	579186	7025742	6/6/2011	Grey	Clay	Damp	Subtle Slope	80 C		Poplar	Leaf Cover	Excellent	Sand	
1194502	HEN	7	579110	7025686	6/6/2011	Chocolate Brown	Clay	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Sand	
1194503	HEN	7	579068	7025656	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		No Tree Cover	Grass Cover	Good	Sand	
1194504	HEN	7	579137	7025733	6/6/2011	Chocolate Brown	Clay	Dry	Subtle Slope	70 C		Poplar	Grass Cover	Good	Sand	
1194505	HEN	7	579019	7025654	6/6/2011	Chocolate Brown	Clay	Dry	Pronounced Slope	60 C		Poplar	Grass Cover	Good	Sand	
1194506	HEN	7	578921	7025664	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 B		No Tree Cover	Grass Cover	Good	Sand	
1194507	HEN	7	578970	7025665	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 C		No Tree Cover	Grass Cover	Good	Sand	
1194508	HEN	7	578871	7025672	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Poplar	Grass Cover	Good	Sand	
1194509	HEN	7	578820	7025688	6/6/2011	Grey	Sand	Dry	Subtle Slope	70 C		Poplar	Grass Cover	Good	Sand	
1194510	HEN	7	578766	7025706	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Good	Sand	
1194511	HEN	7	578716	7025708	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Old Burn	Grass Cover	Good	Sand	
1194512	HEN	7	578664	7025677	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		No Tree Cover	Grass Cover	Good	Sand	
1194513	HEN	7	578613	7025710	6/6/2011	Grey	Sand	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Good	Sand	
1194514	HEN	7	578573	7025757	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1194515	HEN	7	578523	7025768	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1194516	HEN	7	578472	7025807	6/6/2011	Chocolate Brown	Sand	Dry	Steep	60 C		No Tree Cover	Grass Cover	Good	Sand	
1194517	HEN	7	578420	7025805	6/6/2011	Chocolate Brown	Sand	Dry	Steep	60 B		Poplar	Grass Cover	Good	Sand	
1194518	HEN	7	575917	7031667	6/7/2011	Reddish Brown	Sand	Dry	Pronounced Slope	50 B		Poplar	Leaf Cover	Good	Sand	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1194519	HEN	7	575908	7031615	6/7/2011	Dark Brown	Sand	Damp	Subtle Slope	50 B		Black Spruce	Thin Moss Cover	Good	Coarse	
1194520	HEN	7	575925	7031558	6/7/2011	Dark Brown	Gravel	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Good	Coarse	
1194521	HEN	7	579688	7026068	6/6/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		No Tree Cover	Grass Cover	Good	Coarse	
1194522	HEN	7	579734	7026086	6/6/2011	Chocolate Brown	Sand	Dry	Steep	60 C		Pine	Grass Cover	Good	Sand	
1194523	HEN	7	579780	7026110	6/6/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		Poplar	Grass Cover	Good	Sand	
1194524	HEN	7	579827	7026127	6/6/2011	Chocolate Brown	Gravel	Dry	Steep	60 C		Black Spruce	Grass Cover	Good	Coarse	
1194525	HEN	7	579875	7026147	6/6/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		Poplar	Grass Cover	Good	Coarse	
1194526	HEN	7	579649	7026029	6/6/2011	Chocolate Brown	Gravel	Damp	Steep	50 C		No Tree Cover	Grass Cover	Good	Coarse	
1194527	HEN	7	579613	7025995	6/6/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		No Tree Cover	Grass Cover	Good	Sand	Coarse
1194528	HEN	7	579565	7025980	6/6/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		No Tree Cover	Grass Cover	Good	Sand	Coarse
1194529	HEN	7	579517	7025962	6/6/2011	Chocolate Brown	Gravel	Dry	Steep	40 B		No Tree Cover	Grass Cover	Poor	Coarse	
1194530	HEN	7	579466	7025949	6/6/2011	Chocolate Brown	Sand	Dry	Steep	60 C		Poplar	Grass Cover	Good	Clay	
1194531	HEN	7	579427	7025917	6/6/2011	Chocolate Brown	Gravel	Dry	Steep	60 C		Old Burn	Grass Cover	Good	Rocky	
1194532	HEN	7	579390	7025883	6/6/2011	Chocolate Brown	Sand	Dry	Steep	60 C		Poplar	Grass Cover	Good	Sand	
1194533	HEN	7	579357	7025836	6/6/2011	Chocolate Brown	Gravel	Dry	Flat	50 C		Poplar	Leaf Cover	Good	Sand	
1194534	HEN	7	579307	7025824	6/6/2011	Dark Brown	Gravel	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Good	Sand	
1194535	HEN	7	579266	7025790	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	Coarse
1194536	HEN	7	579236	7025751	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Poplar	Grass Cover	Good	Sand	
1194552	HEN	7	582529	7026559	6/6/2011	Chocolate Brown	Sand	Wet	Flat	20 B		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	Frozen
1194553	HEN	7	582610	7026489	6/6/2011	Chocolate Brown	Sand	Wet	Flat	10 B		Dwarf Birch	Sphagnum Moss > 30cm	Poor	Frozen	
1194554	HEN	7	582639	7026449	6/6/2011	Chocolate Brown	Sand	Wet	Flat	20 B		Dwarf Birch	Sphagnum Moss < 30cm	Good	Frozen	
1194555	HEN	7	582786	7026408	6/6/2011	Reddish Yellow	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1194556	HEN	7	582935	7026358	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Dwarf Birch	Leaf Cover	Good	Fine	
1194557	HEN	7	582687	7026428	6/6/2011	Reddish Yellow	Gravel	Dry	Flat	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1194558	HEN	7	582440	7026608	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Partially Frozen
1194559	HEN	7	582346	7026647	6/6/2011	Chocolate Brown	Sand	Wet	Flat	20 B		Dwarf Birch	Sphagnum Moss > 30cm	Poor	Frozen	
1194560	HEN	7	582294	7026665	6/6/2011	Chocolate Brown	Sand	Wet	Flat	20 B		Black Spruce	Sphagnum Moss > 30cm	Good	Frozen	
1194561	HEN	7	582137	7026679	6/6/2011	Dark Grey Black	Sand	Wet	Subtle Slope	10 B		Black Spruce	Sphagnum Moss > 30cm	Poor	Frozen	Small Sample
1194562	HEN	7	582024	7026685	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Good	Coarse	
1194563	HEN	7	582024	7026685	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Good	Coarse	
1194564	HEN	7	586743	7022127	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Fine	
1194565	HEN	7	582737	7026420	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Dwarf Birch	Sphagnum Moss < 30cm	Good	Fine	
1194566	HEN	7	586743	7022127	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Fine	
1194567	HEN	7	576081	7033526	6/7/2011	Chocolate Brown	Sand	Wet	Flat	50 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1194568	HEN	7	576095	7033478	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Birch Forest	Leaf Cover	Good	Coarse	Quartz Chips
1194569	HEN	7	576112	7033428	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Willows	Needle Cover	Good	Coarse	
1194570	HEN	7	576126	7033380	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		Willows	Leaf Cover	Good	Coarse	
1194571	HEN	7	582567	7026523	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Dwarf Birch	Leaf Cover	Good	Coarse	
1194572	HEN	7	583591	7026352	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1194573	HEN	7	583540	7026335	6/6/2011	Chocolate Brown	Gravel	Damp	Flat	40 C		Black Spruce	Leaf Cover	Good	Fine	
1194574	HEN	7	583492	7026324	6/6/2011	Chocolate Brown	Sand	Damp	Flat	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1194575	HEN	7	583442	7026311	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1194576	HEN	7	583338	7026303	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Willows	Sphagnum Moss < 30cm	Good	Fine	
1194577	HEN	7	583283	7026300	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Fine	
1194578	HEN	7	582837	7026388	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Dwarf Birch	Leaf Cover	Good	Fine	
1194579	HEN	7	582889	7026378	6/6/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Willows	Leaf Cover	Excellent	Fine	
1194580	HEN	7	582983	7026343	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Dwarf Birch	Leaf Cover	Good	Fine	
1194581	HEN	7	583032	7026326	6/6/2011	Chocolate Brown	Gravel	Wet	Flat	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Partially Frozen
1194582	HEN	7	583081	7026314	6/6/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		Black Spruce	Reindeer Moss	Excellent	Coarse	
1194583	HEN	7	583132	7026306	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	50 C		Willows	Sphagnum Moss < 30cm	Good	Fine	
1194584	HEN	7	583182	7026308	6/6/2011	Reddish Yellow	Gravel	Damp	Flat	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1194585	HEN	7	583234	7026301	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Fine	
1194586	HEN	7	583389	7026309	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Excellent	Fine	
1194587	HEN	7	582465	7027954	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	110 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1194588	HEN	7	582422	7027928	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1194589	HEN	7	582381	7027897	6/6/2011	Light Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1194590	HEN	7	582340	7027869	6/6/2011	Chocolate Brown	Clay	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1194591	HEN	7	582299	7027838	6/6/2011	Dark Brown	Gravel	Damp	Subtle Slope	50 C		Subalpine Fir	Sphagnum Moss > 30cm	Excellent	Rocky	
1194592	HEN	7	582259	7027807	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1194593	HEN	7	582214	7027782	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Rocky	
1194594	HEN	7	582172	7027755	6/6/2011	Dark Brown	Clay	Damp	Subtle Slope	70 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1194595	HEN	7	582131	7027726	6/6/2011	Chocolate Brown	Clay	Dry	Subtle Slope	70 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1194596	HEN	7	582085	7027702	6/6/2011	Chocolate Brown	Gravel	Dry	Flat	60 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194597	HEN	7	582047	7027670	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C		Subalpine Fir	Thin Moss Cover	Excellent	Rocky	
1194598	HEN	7	582015	7027632	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194599	HEN	7	581978	7027596	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Rocky	
1194600	HEN	7	581954	7027551	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194601	HEN	7	576126	7033380	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		Willows	Leaf Cover	Good	Coarse	
1194602	HEN	7	576135	7033218	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1194603	HEN	7	576138	7033166	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Fine	
1194604	HEN	7	576138	7033115	6/7/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		White Spruce	Leaf Cover	Excellent	Fine	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1194605	HEN	7	576140	7033063	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1194606	HEN	7	576141	7033007	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	100 C		Poplar	Grass Cover	Good	Coarse	
1194607	HEN	7	576037	7032366	6/7/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	60 C		White Spruce	Leaf Cover	Good	Fine	
1194608	HEN	7	576089	7032517	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Birch Forest	Grass Cover	Good	Coarse	Rocky
1194609	HEN	7	576142	7032944	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Excellent	Coarse	
1194610	HEN	7	576115	7032622	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Fine	
1194611	HEN	7	576105	7032570	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Birch Forest	Leaf Cover	Good	Coarse	Rocky
1194612	HEN	7	576065	7032468	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Birch Forest	Grass Cover	Excellent	Coarse	Rocky
1194613	HEN	7	575996	7032224	6/7/2011	Chocolate Brown	Gravel	Dry	Steep	40 C		Birch Forest	Leaf Cover	Excellent	Fine	
1194614	HEN	7	576052	7032415	6/7/2011	Chocolate Brown	Sand	Dry	Steep	30 C		Birch Forest	Grass Cover	Good	Coarse	Rocky
1194615	HEN	7	576023	7032315	6/7/2011	Chocolate Brown	Gravel	Dry	Steep	30 C		Birch Forest	Grass Cover	Excellent	Fine	
1194616	HEN	7	586798	7022220	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1194617	HEN	7	586830	7022257	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	Fine
1194618	HEN	7	576007	7032267	6/7/2011	Chocolate Brown	Gravel	Dry	Steep	30 C		Birch Forest	Leaf Cover	Good	Fine	
1194619	HEN	7	576138	7033270	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		White Spruce	Grass Cover	Good	Rocky	Coarse
1194620	HEN	7	576138	7033328	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	70 C		Poplar	Bare Soil	Good	Coarse	
1194621	HEN	7	576070	7033578	6/7/2011	Chocolate Brown	Sand	Dry	Flat	30 C		Old Burn	Leaf Cover	Good	Coarse	
1194622	HEN	7	575955	7032077	6/7/2011	Chocolate Brown	Gravel	Damp	Steep	40 C		Poplar	Grass Cover	Excellent	Fine	
1194623	HEN	7	586660	7021766	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1194624	HEN	7	575971	7032123	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Grass Cover	Good	Coarse	
1194625	HEN	7	575981	7032176	6/7/2011	Reddish Yellow	Sand	Dry	Steep	30 C		Poplar	Grass Cover	Good	Coarse	
1194626	HEN	7	576128	7032772	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Grass Cover	Good	Coarse	
1194655	HEN	7	586621	7021507	6/8/2011	Chocolate Brown	Gravel	Dry	Flat	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Rocky
1194656	HEN	7	586702	7021970	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1194661	HEN	7	585496	7021151	6/8/2011	Chocolate Brown	Sand	Dry	Steep	60 C		Poplar	Grass Cover	Excellent	Rocky	
1194662	HEN	7	585530	7021191	6/8/2011	Chocolate Brown	Sand	Dry	Steep	50 C		Poplar	Grass Cover	Excellent	Coarse	
1194663	HEN	7	585227	7020820	6/8/2011	Chocolate Brown	Sand	Dry	Steep	70 C		Poplar	Leaf Cover	Excellent	Rocky	Coarse
1194664	HEN	7	585256	7020869	6/8/2011	Bluish Grey	Silt	Dry	Pronounced Slope	90 C		White Spruce	Needle Cover	Excellent	Sand	
1194665	HEN	7	585256	7020869	6/8/2011	Bluish Grey	Silt	Dry	Pronounced Slope	90 C		White Spruce	Needle Cover	Excellent	Sand	
1194666	HEN	7	585289	7020911	6/8/2011	Dark Brown	Sand	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	Partially Frozen
1194667	HEN	7	585319	7020953	6/8/2011	Chocolate Brown	Sand	Dry	Steep	60 C		Poplar	Grass Cover	Excellent	Rocky	
1194668	HEN	7	585364	7020977	6/8/2011	Chocolate Brown	Sand	Dry	Steep	60 C		Poplar	Grass Cover	Excellent	Rocky	
1194669	HEN	7	585397	7021021	6/8/2011	Chocolate Brown	Silt	Dry	Steep	40 C		Poplar	Grass Cover	Good	Rocky	Coarse
1194670	HEN	7	585437	7021059	6/8/2011	Dark Brown	Silt	Damp	Steep	50 C		Poplar	Leaf Cover	Good	Rocky	Coarse
1194671	HEN	7	585457	7021117	6/8/2011	Reddish Orange	Silt	Dry	Steep	50 C		Poplar	Grass Cover	Excellent	Coarse	Rocky
1194672	HEN	7	585560	7021233	6/8/2011	Reddish Orange	Silt	Dry	Steep	80 C		Poplar	Grass Cover	Excellent	Coarse	
1194673	HEN	7	585560	7021233	6/8/2011	Reddish Orange	Silt	Dry	Steep	80 C		Poplar	Grass Cover	Excellent	Coarse	
1194674	HEN	7	585607	7021261	6/8/2011	Dark Brown	Sand	Dry	Steep	70 C		Poplar	Leaf Cover	Excellent	Fine	
1194675	HEN	7	585633	7021307	6/8/2011	Dark Brown	Sand	Dry	Steep	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1194676	HEN	7	585668	7021354	6/8/2011	Chocolate Brown	Sand	Dry	Steep	60 C		Poplar	Leaf Cover	Excellent	Fine	Rocky
1194677	HEN	7	585704	7021391	6/8/2011	Reddish Orange	Sand	Dry	Steep	60 C		Poplar	Grass Cover	Good	Rocky	Fine
1194678	HEN	7	585737	7021428	6/8/2011	Chocolate Brown	Silt	Dry	Steep	20 C		Poplar	Grass Cover	Poor	Rocky	Small Sample
1194679	HEN	7	585776	7021463	6/8/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		Poplar	Grass Cover	Excellent	Fine	Rocky
1194680	HEN	7	585812	7021501	6/8/2011	Chocolate Brown	Sand	Dry	Steep	60 C		Poplar	Grass Cover	Excellent	Rocky	Coarse
1194681	HEN	7	585843	7021538	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	30 C		Poplar	Leaf Cover	Good	Rocky	Small Sample
1194682	HEN	7	585868	7021584	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Rocky	Coarse
1194683	HEN	7	585895	7021639	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	Coarse
1194684	HEN	7	585902	7021700	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Good	Rocky	Sand
1194685	HEN	7	585921	7021750	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	Coarse
1194686	HEN	7	585050	7020641	6/8/2011	Bluish Grey	Silt	Dry	Steep	90 C		Poplar	Grass Cover	Excellent	Coarse	
1194687	HEN	7	585077	7020674	6/8/2011	Chocolate Brown	Sand	Dry	Steep	70 C		Poplar	Grass Cover	Excellent	Fine	
1194688	HEN	7	585106	7020723	6/8/2011	Chocolate Brown	Sand	Dry	Steep	70 C		Poplar	Leaf Cover	Excellent	Rocky	
1194689	HEN	7	585143	7020760	6/8/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Leaf Cover	Good	Coarse	Rocky
1194690	HEN	7	585185	7020790	6/8/2011	Chocolate Brown	Sand	Dry	Steep	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1194691	HEN	7	584899	7022156	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	
1194692	HEN	7	584928	7022256	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Good	Coarse	
1194693	HEN	7	584936	7022305	6/8/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1194694	HEN	7	584962	7022456	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	60 C		Birch Forest	Leaf Cover	Good	Coarse	
1194695	HEN	7	584992	7022498	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1194696	HEN	7	585025	7022543	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1194697	HEN	7	585024	7022594	6/8/2011	Reddish Brown	Silt	Dry	Subtle Slope	50 C		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1194698	HEN	7	585038	7022651	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1194699	HEN	7	585044	7022704	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1194700	HEN	7	585069	7022812	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	70 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1194701	HEN	7	585078	7022864	6/8/2011	Reddish Brown	Sand	Damp	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Good	Coarse	
1194702	HEN	7	585079	7022917	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 C		Dwarf Birch	Reindeer Moss	Good	Coarse	
1194703	HEN	7	585104	7022966	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Good	Coarse	
1194704	HEN	7	585111	7023019	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Good	Coarse	
1194705	HEN	7	585192	7023153	6/8/2011	Reddish Brown	Sand	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1194706	HEN	7	588659	7021953	6/8/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	80 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1194707	HEN	7	588639	7021999	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1194708	HEN	7	588858	7021598	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C	C	Poplar	Thin Moss Cover	Excellent	Coarse	
1194709	HEN	7	588880	7021553	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C	C	Poplar	Thin Moss Cover	Excellent	Coarse	
1194710	HEN	7	588826	7021637	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C	C	Poplar	Thin Moss Cover	Excellent	Coarse	
1194711	HEN	7	588798	7021680	6/8/2011	Chocolate Brown	Gravel	Dry	Steep	50 C	C	Poplar	Thin Moss Cover	Excellent	Rocky	
1194712	HEN	7	588773	7021680	6/8/2011	Reddish Brown	Gravel	Dry	Steep	50 C	C	Poplar	Thin Moss Cover	Excellent	Coarse	
1194713	HEN	7	588751	7021771	6/8/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	50 C	C	Poplar	Thin Moss Cover	Excellent	Rocky	
1194714	HEN	7	588728	7021817	6/8/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	60 C	C	Poplar	Thin Moss Cover	Excellent	Coarse	
1194715	HEN	7	588706	7021863	6/8/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	60 C	C	Poplar	Thin Moss Cover	Excellent	Coarse	
1194716	HEN	7	588688	7021910	6/8/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	90 C	C	Poplar	Thin Moss Cover	Excellent	Coarse	
1194717	HEN	7	588619	7022046	6/8/2011	Grey	Clay	Dry	Pronounced Slope	50 C	C	Black Spruce	Thin Moss Cover	Excellent	Rocky	
1194718	HEN	7	588596	7022091	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C	C	Black Spruce	Thin Moss Cover	Excellent	Rocky	
1194719	HEN	7	588571	7022135	6/8/2011	Grey	Clay	Dry	Pronounced Slope	60 C	C	Black Spruce	Thin Moss Cover	Good	Rocky	
1194720	HEN	7	588551	7022181	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C	C	Black Spruce	Thin Moss Cover	Excellent	Rocky	
1194721	HEN	7	588530	7022227	6/8/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	50 C	C	Black Spruce	Thin Moss Cover	Excellent	Coarse	
1194722	HEN	7	588522	7022277	6/8/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	50 C	C	Birch Forest	Thin Moss Cover	Excellent	Coarse	
1194723	HEN	7	588515	7022327	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C	C	Birch Forest	Thin Moss Cover	Good	Rocky	
1194724	HEN	7	588515	7022327	6/8/2011	Light Brown	Gravel	Dry	Pronounced Slope	110 C	C	Birch Forest	Thin Moss Cover	Excellent	Coarse	
1194725	HEN	7	588502	7022428	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C	C	Birch Forest	Thin Moss Cover	Excellent	Rocky	
1194726	HEN	7	588491	7022477	6/8/2011	Light Brown	Gravel	Dry	Pronounced Slope	40 C	C	Birch Forest	Leaf Cover	Excellent	Coarse	
1194727	HEN	7	588486	7022527	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C	C	Willows	Thin Moss Cover	Good	Rocky	
1194728	HEN	7	588496	7022577	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C	C	Birch Forest	Thin Moss Cover	Excellent	Rocky	
1194729	HEN	7	588500	7022629	6/8/2011	Chocolate Brown	Clay	Dry	Pronounced Slope	70 C	C	Birch Forest	Leaf Cover	Good	Coarse	
1194730	HEN	7	588502	7022679	6/8/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	70 C	C	Birch Forest	Leaf Cover	Good	Rocky	
1194731	HEN	7	588511	7022729	6/8/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50 C	C	Birch Forest	Leaf Cover	Good	Rocky	
1194732	HEN	7	588508	7022729	6/8/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50 C	C	Birch Forest	Leaf Cover	Excellent	Coarse	
1194733	HEN	7	588508	7022829	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C	C	Birch Forest	Leaf Cover	Excellent	Coarse	
1194734	HEN	7	588516	7022829	6/8/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	70 C	C	Birch Forest	Leaf Cover	Excellent	Rocky	
1194735	HEN	7	588513	7022930	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C	C	Birch Forest	Leaf Cover	Excellent	Coarse	
1194736	HEN	7	585054	7022761	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C	C	Black Spruce	Needle Cover	Good	Coarse	
1194737	HEN	7	584946	7022405	6/8/2011	Light Brown	Sand	Dry	Pronounced Slope	60 C	C	Birch Forest	Leaf Cover	Good	Coarse	
1194738	HEN	7	584932	7022357	6/8/2011	Reddish Brown	Sand	Damp	Pronounced Slope	50 C	C	Black Spruce	Needle Cover	Good	Coarse	Clay
1194739	HEN	7	584919	7022203	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Good	Coarse	
1194740	HEN	7	584870	7022105	6/8/2011	Reddish Brown	Gravel	Dry	Subtle Slope	50 C	C	Birch Forest	Leaf Cover	Good	Coarse	
1194741	HEN	7	584732	7022012	6/8/2011	Reddish Brown	Sand	Damp	Subtle Slope	40 C	C	Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	Clay
1194742	HEN	7	584782	7022047	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 C	C	Birch Forest	Leaf Cover	Good	Coarse	
1194743	HEN	7	584524	7021849	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	60 C	C	Birch Forest	Leaf Cover	Good	Coarse	
1194744	HEN	7	584524	7021849	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	60 C	C	Birch Forest	Leaf Cover	Good	Coarse	
1194745	HEN	7	584493	7021797	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C	C	Poplar	Leaf Cover	Good	Coarse	
1194746	HEN	7	584493	7021797	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C	C	Poplar	Leaf Cover	Good	Coarse	
1194747	HEN	7	584595	7021928	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	60 C	C	Poplar	Leaf Cover	Good	Coarse	
1194748	HEN	7	584643	7021963	6/8/2011	Light Brown	Sand	Dry	Subtle Slope	50 C	C	Black Spruce	Needle Cover	Good	Coarse	Quartz Chips
1194749	HEN	7	584687	7021992	6/8/2011	Chocolate Brown	Silt	Damp	Subtle Slope	30 B	B	Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Clay
1194750	HEN	7	584827	7022074	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Good	Coarse	
1194751	HEN	7	579162	7031429	6/7/2011	Dark Brown	Sand	Damp	Pronounced Slope	60 C	C	Old Burn	Leaf Cover	Excellent	Rocky	Coarse
1194752	HEN	7	579110	7031432	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C	C	Old Burn	Leaf Cover	Excellent	Rocky	Coarse
1194753	HEN	7	579110	7031432	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C	C	Old Burn	Leaf Cover	Excellent	Rocky	Coarse
1194754	HEN	7	579062	7031444	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	20 C	C	Old Burn	Sphagnum Moss < 30cm	Good	Rocky	Coarse
1194755	HEN	7	579013	7031458	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C	C	Old Burn	Leaf Cover	Excellent	Rocky	Coarse
1194756	HEN	7	578969	7031486	6/7/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 C	C	Old Burn	Leaf Cover	Good	Rocky	Mud
1194757	HEN	7	578915	7031506	6/7/2011	Dark Brown	Sand	Damp	Subtle Slope	50 C	C	Old Burn	Leaf Cover	Excellent	Coarse	
1194758	HEN	7	578873	7031528	6/7/2011	Chocolate Brown	Sand	Wet	Subtle Slope	70 C	C	Old Burn	Leaf Cover	Excellent	Rocky	Coarse
1194759	HEN	7	578823	7031541	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C	C	Old Burn	Leaf Cover	Excellent	Rocky	Coarse
1194760	HEN	7	578781	7031566	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C	C	Old Burn	Leaf Cover	Excellent	Coarse	Rocky
1194761	HEN	7	578734	7031591	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C	C	Old Burn	Leaf Cover	Excellent	Coarse	
1194762	HEN	7	578686	7031604	6/7/2011	Chocolate Brown	Sand	Wet	Subtle Slope	50 C	C	Old Burn	Leaf Cover	Excellent	Rocky	
1194763	HEN	7	578634	7031617	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C	C	Old Burn	Leaf Cover	Excellent	Rocky	
1194764	HEN	7	578597	7031647	6/7/2011	Chocolate Brown	Sand	Dry	Flat	50 C	C	Old Burn	Reindeer Moss	Excellent	Coarse	
1194765	HEN	7	578548	7031653	6/7/2011	Dark Brown	Sand	Dry	Flat	80 C	C	Old Burn	Reindeer Moss	Excellent	Fine	
1194766	HEN	7	585925	7021800	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C	C	White Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	Coarse
1194767	HEN	7	585916	7021851	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C	C	White Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	Coarse
1194768	HEN	7	585926	7021904	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C	C	White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1194769	HEN	7	585905	7021949	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C	C	White Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1194770	HEN	7	579938	7031463	6/7/2011	Chocolate Brown	Silt	Wet	Subtle Slope	30 B	B	Old Burn	Sphagnum Moss < 30cm	Good	Partially Frozen	Mud
1194771	HEN	7	579899	7031484	6/7/2011	Chocolate Brown	Silt	Damp	Subtle Slope	30 B	B	Old Burn	Thin Moss Cover	Good	Partially Frozen	
1194772	HEN	7	579847	7031491	6/7/2011	Chocolate Brown	Silt	Damp	Subtle Slope	30 C	C	Old Burn	Leaf Cover	Good	Rocky	Partially Frozen
1194773	HEN	7	579795	7031497	6/7/2011	Dark Brown	Sand	Damp	Subtle Slope	50 C	C	Old Burn	Thin Moss Cover	Excellent	Rocky	Coarse
1194774	HEN	7	579742	7031498	6/7/2011	Chocolate Brown	Silt	Wet	Subtle Slope	40 C	C	White Spruce	Reindeer Moss	Good	Partially Frozen	Coarse
1194775	HEN	7	579696	7031520	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C	C	Birch Forest	Leaf Cover	Excellent	Rocky	Coarse
1194776	HEN	7	579647	7031517	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C	C	Old Burn	Thin Moss Cover	Excellent	Coarse	
1194780	HEN	7	582759	7023874	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C	C	Poplar	Leaf Cover	Good	Fine	
1194781	HEN	7	586027	7022874	6/8/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	60 C	C	Black Spruce	Leaf Cover	Excellent	Rocky	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1194782	HEN	7	582230	7024059	6/7/2011	Reddish Brown	Gravel	Damp	Pronounced Slope	70 C		Poplar	Grass Cover	Excellent	Fine	
1194783	HEN	7	576130	7032893	6/7/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	70 C		Subalpine Fir	Grass Cover	Excellent	Coarse	
1194784	HEN	7	576119	7032722	6/7/2011	Reddish Yellow	Gravel	Dry	Steep	40 C		No Tree Cover	Grass Cover	Excellent	Fine	Rocky
1194785	HEN	7	576114	7032672	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		No Tree Cover	Grass Cover	Good	Coarse	Rocky
1194786	HEN	7	576128	7032833	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Good	Coarse	
1194787	HEN	7	586668	7021817	6/8/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	70 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Partially Frozen
1194788	HEN	7	586715	7022024	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1194789	HEN	7	586731	7022076	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Fine	
1194801	HEN	7	588936	7021467	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1194802	HEN	7	588936	7021467	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1194803	HEN	7	588906	7021510	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1194804	HEN	7	588906	7021510	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1194805	HEN	7	577686	7033326	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Rocky	
1194806	HEN	7	577675	7033375	6/7/2011	Chocolate Brown	Gravel	Dry	Flat	50 C		Birch Forest	Leaf Cover	Excellent	Rocky	
1194807	HEN	7	577016	7031387	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1194808	HEN	7	577041	7031435	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Grass Cover	Good	Fine	
1194809	HEN	7	577072	7031479	6/7/2011	Chocolate Brown	Silt	Dry	Steep	40 B		Black Spruce	Grass Cover	Poor	Fine	
1194810	HEN	7	577104	7031520	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Excellent	Sand	
1194811	HEN	7	577119	7031568	6/7/2011	Bluish Grey	Sand	Dry	Pronounced Slope	30 C		Poplar	Grass Cover	Good	Sand	
1194812	HEN	7	577654	7033421	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1194813	HEN	7	577636	7033468	6/7/2011	Chocolate Brown	Gravel	Dry	Flat	40 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1194814	HEN	7	579599	7031514	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Leaf Cover	Excellent	Coarse	Rocky
1194815	HEN	7	586840	7024678	6/8/2011	Chocolate Brown	Sand	Damp	Flat	30 C		White Spruce	Sphagnum Moss < 30cm	Good	Clay	
1194817	HEN	7	587158	7024834	6/8/2011	Chocolate Brown	Gravel	Damp	Flat	30 C		Poplar	Leaf Cover	Good	Sand	
1194818	HEN	7	577405	7032035	6/7/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1194819	HEN	7	577424	7032084	6/7/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Rocky	
1194820	HEN	7	577449	7032130	6/7/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		Poplar	Leaf Cover	Good	Rocky	
1194821	HEN	7	577469	7032175	6/7/2011	Chocolate Brown	Gravel	Dry	Steep	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1194822	HEN	7	577496	7032219	6/7/2011	Dark Olivine Green	Gravel	Dry	Steep	80 C		Poplar	Leaf Cover	Excellent	Coarse	
1194823	HEN	7	577507	7032267	6/7/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1194824	HEN	7	577540	7032306	6/7/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1194825	HEN	7	577572	7032347	6/7/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1194826	HEN	7	577603	7032389	6/7/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1194827	HEN	7	577625	7032434	6/7/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Coarse	
1194828	HEN	7	577660	7032469	6/7/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Birch Forest	Leaf Cover	Excellent	Rocky	
1194829	HEN	7	577682	7032515	6/7/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1194830	HEN	7	577706	7032559	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1194831	HEN	7	577730	7032656	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1194832	HEN	7	577713	7032609	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1194833	HEN	7	577780	7032850	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1194834	HEN	7	577767	7032801	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1194835	HEN	7	577749	7032754	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1194836	HEN	7	577743	7032706	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Subalpine Fir	Leaf Cover	Excellent	Coarse	
1194837	HEN	7	577803	7032948	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Rocky	
1194838	HEN	7	577791	7032898	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1194839	HEN	7	577804	7032998	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1194840	HEN	7	577802	7033048	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1194841	HEN	7	577780	7033094	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	70 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1194842	HEN	7	577766	7033142	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1194843	HEN	7	577743	7033186	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	70 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1194844	HEN	7	577724	7033233	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1194845	HEN	7	577710	7033281	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1194846	HEN	7	577145	7031604	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Good	Fine	
1194847	HEN	7	577172	7031645	6/7/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	60 C		Poplar	Grass Cover	Excellent	Coarse	
1194848	HEN	7	577210	7031687	6/7/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	70 C		Poplar	Grass Cover	Excellent	Coarse	
1194849	HEN	7	577236	7031733	6/7/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1194850	HEN	7	577236	7031733	6/7/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1194851	HEN	7	577263	7031774	6/7/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1194852	HEN	7	577277	7031826	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Bare Soil	Good	Coarse	
1194866	HEN	7	575755	7030817	6/7/2011	Dark Brown	Gravel	Damp	Steep	50 B		Black Spruce	Needle Cover	Poor	Organic 25%	Coarse
1194867	HEN	7	575770	7030863	6/7/2011	Dark Brown	Gravel	Damp	Pronounced Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1194868	HEN	7	575801	7030909	6/7/2011	Dark Brown	Gravel	Dry	Flat	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1194869	HEN	7	575813	7030957	6/7/2011	Dark Brown	Gravel	Dry	Steep	50 C		Dwarf Birch	Sphagnum Moss > 30cm	Good	Rocky	
1194870	HEN	7	575832	7031004	6/7/2011	Dark Brown	Sand	Dry	Steep	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1194871	HEN	7	575861	7031045	6/7/2011	Dark Brown	Sand	Dry	Steep	60 C		Black Spruce	Needle Cover	Good	Sand	
1194872	HEN	7	575879	7031079	6/7/2011	Dark Brown	Sand	Dry	Steep	60 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1194873	HEN	7	575895	7031138	6/7/2011	Dark Brown	Gravel	Damp	Steep	50 B		Black Spruce	Thin Moss Cover	Poor	Coarse	
1194874	HEN	7	575914	7031191	6/7/2011	Dark Brown	Gravel	Dry	Steep	40 B		Black Spruce	Sphagnum Moss > 30cm	Poor	Rocky	
1194875	HEN	7	575926	7031235	6/7/2011	Reddish Yellow	Sand	Damp	Pronounced Slope	60 C		Black Spruce	Leaf Cover	Good	Coarse	
1194876	HEN	7	575935	7031289	6/7/2011	Dark Brown	Gravel	Dry	Pronounced Slope	40 B		Black Spruce	Thin Moss Cover	Good	Coarse	
1194877	HEN	7	575945	7031338	6/7/2011	Dark Brown	Gravel	Damp	Flat	50 C		Black Spruce	Leaf Cover	Good	Coarse	



Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1194878	HEN	7	575941	7031388	6/7/2011	Reddish Brown	Gravel	Damp	Pronounced Slope	50 C	B	Black Spruce	Thin Moss Cover	Good	Coarse	
1194879	HEN	7	575973	7031439	6/7/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	50 B	B	Poplar	Leaf Cover	Good	Mud	
1194880	HEN	7	575959	7031490	6/7/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	40 B	B	Black Spruce	Leaf Cover	Poor	Rocky	Rocky
1194881	HEN	7	575914	7031716	6/7/2011	Dark Brown	Sand	Dry	Pronounced Slope	60 B	B	Poplar	Grass Cover	Poor	Rocky	
1194882	HEN	7	575925	7031764	6/7/2011	Dark Brown	Gravel	Damp	Steep	50 B	B	Poplar	Leaf Cover	Poor	Sand	
1194883	HEN	7	575928	7031811	6/7/2011	Dark Brown	Sand	Dry	Steep	80 B	B	Poplar	Grass Cover	Good	Sand	
1194884	HEN	7	575924	7031865	6/7/2011	Dark Brown	Gravel	Dry	Steep	40 B	B	Poplar	Leaf Cover	Good	Coarse	
1194885	HEN	7	575930	7031916	6/7/2011	Chocolate Brown	Gravel	Dry	Steep	40 B	B	Poplar	Grass Cover	Poor	Sand	
1194886	HEN	7	575921	7031966	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C	C	Poplar	Grass Cover	Good	Coarse	
1194887	HEN	7	575933	7032009	6/7/2011	Reddish Brown	Sand	Dry	Pronounced Slope	40 C	C	Poplar	Leaf Cover	Good	Coarse	
1194888	HEN	7	575948	7031516	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C	C	White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1194889	HEN	7	575902	7031488	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C	C	White Spruce	Thin Moss Cover	Excellent	Rocky	Coarse
1194890	HEN	7	579460	7031463	6/7/2011	Dark Brown	Silt	Damp	Subtle Slope	30 C	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1194891	HEN	7	579411	7031459	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C	C	Birch Forest	Leaf Cover	Excellent	Coarse	Rocky
1194892	HEN	7	579362	7031450	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C	C	Birch Forest	Leaf Cover	Good	Rocky	Coarse
1194893	HEN	7	579313	7031447	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C	C	Birch Forest	Sphagnum Moss < 30cm	Good	Partially Frozen	Coarse
1194894	HEN	7	579263	7031456	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C	C	Birch Forest	Leaf Cover	Excellent	Rocky	Coarse
1194895	HEN	7	579214	7031446	6/7/2011	Dark Brown	Silt	Damp	Subtle Slope	50 C	C	Old Burn	Needle Cover	Good	Rocky	Coarse
1194896	HEN	7	576996	7031342	6/7/2011	Chocolate Brown	Sand	Damp	Steep	70 C	C	Dwarf Birch	Leaf Cover	Excellent	Coarse	
1194897	HEN	7	577306	7031867	6/7/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Excellent	Coarse	
1194898	HEN	7	577323	7031912	6/7/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Excellent	Coarse	
1194899	HEN	7	577354	7031956	6/7/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Excellent	Coarse	
1194900	HEN	7	577383	7031995	6/7/2011	Bluish Grey	Sand	Dry	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Good	Coarse	
1194901	HEN	7	586030	7022824	6/8/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	40 C	C	Poplar	Grass Cover	Good	Rocky	
1194902	HEN	7	586016	7022773	6/8/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	60 C	C	Poplar	Grass Cover	Excellent	Fine	
1194903	HEN	7	586003	7022715	6/8/2011	Light Brown	Gravel	Dry	Pronounced Slope	90 C	C	Poplar	Grass Cover	Excellent	Fine	
1194904	HEN	7	585978	7022665	6/8/2011	Greyish Green	Sand	Damp	Steep	40 C	C	Poplar	Grass Cover	Good	Coarse	
1194905	HEN	7	586061	7022967	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C	C	Black Spruce	Thin Moss Cover	Excellent	Frozen	
1194906	HEN	7	586030	7022924	6/8/2011	Dark Grey Black	Gravel	Damp	Steep	50 C	C	Subalpine Fir	Leaf Cover	Excellent	Frozen	
1194907	HEN	7	583417	7023523	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C	C	Poplar	Grass Cover	Excellent	Coarse	
1194908	HEN	7	583367	7023536	6/7/2011	Reddish Orange	Gravel	Dry	Subtle Slope	60 C	C	Poplar	Grass Cover	Excellent	Coarse	
1194909	HEN	7	583317	7023541	6/7/2011	Light Brown	Gravel	Dry	Subtle Slope	50 C	C	Poplar	Leaf Cover	Excellent	Fine	
1194910	HEN	7	583271	7023565	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C	C	Poplar	Leaf Cover	Excellent	Fine	
1194911	HEN	7	583221	7023577	6/7/2011	Chocolate Brown	Sand	Wet	Subtle Slope	60 B	B	Poplar	Grass Cover	Good	Wet Soil	
1194912	HEN	7	583181	7023608	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B	B	Dwarf Birch	Thin Moss Cover	Poor	Fine	
1194913	HEN	7	583140	7023638	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C	C	Dwarf Birch	Leaf Cover	Excellent	Rocky	
1194914	HEN	7	583104	7023673	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C	C	Dwarf Birch	Grass Cover	Good	Fine	
1194915	HEN	7	583073	7023714	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C	C	Pine	Grass Cover	Good	Fine	
1194916	HEN	7	583027	7023729	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C	C	Poplar	Grass Cover	Excellent	Fine	
1194917	HEN	7	582988	7023761	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C	C	Poplar	Grass Cover	Excellent	Fine	
1194918	HEN	7	582940	7023783	6/7/2011	Reddish Orange	Sand	Dry	Subtle Slope	50 C	C	Poplar	Leaf Cover	Excellent	Fine	
1194919	HEN	7	582893	7023803	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C	C	Poplar	Leaf Cover	Excellent	Fine	
1194920	HEN	7	582847	7023821	6/7/2011	Dark Blue Black	Sand	Damp	Subtle Slope	30 B	B	Pine	Sphagnum Moss < 30cm	Poor	Frozen	Organic 10%
1194921	HEN	7	582804	7023857	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B	B	Pine	Thin Moss Cover	Good	Wet Soil	
1194922	HEN	7	582343	7024037	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B	B	Dwarf Birch	Needle Cover	Good	Rocky	
1194923	HEN	7	582273	7024027	6/7/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Excellent	Fine	
1194924	HEN	7	582485	7023978	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C	C	Poplar	Leaf Cover	Excellent	Rocky	
1194925	HEN	7	582532	7023957	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 B	B	Poplar	Leaf Cover	Good	Rocky	
1194926	HEN	7	582577	7023940	6/7/2011	Reddish Brown	Gravel	Dry	Subtle Slope	40 C	C	Poplar	Leaf Cover	Excellent	Rocky	
1194927	HEN	7	582722	7023908	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C	C	Black Spruce	Leaf Cover	Good	Fine	
1194928	HEN	7	582674	7023922	6/7/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50 B	B	Pine	Thin Moss Cover	Good	Fine	
1194929	HEN	7	582625	7023927	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 B	B	Poplar	Leaf Cover	Good	Fine	
1194930	HEN	7	582393	7024033	6/7/2011	Dark Blue Black	Gravel	Dry	Subtle Slope	60 C	C	Poplar	Leaf Cover	Excellent	Fine	
1194931	HEN	7	582434	7024001	6/7/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C	C	Poplar	Needle Cover	Excellent	Fine	
1194932	HEN	7	582230	7024059	6/7/2011	Reddish Brown	Gravel	Damp	Pronounced Slope	70 C	C	Poplar	Grass Cover	Excellent	Fine	
1194933	HEN	7	587231	7021946	6/8/2011	Chocolate Brown	Sand	Dry	Flat	40 C	C	White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1194934	HEN	7	587203	7021987	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C	C	White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1194935	HEN	7	586995	7022218	6/8/2011	Chocolate Brown	Sand	Dry	Flat	30 C	C	Birch Forest	Sphagnum Moss < 30cm	Good	Clay	
1194936	HEN	7	576686	7030602	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C	C	White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1194937	HEN	7	576722	7030635	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1194938	HEN	7	576728	7030692	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	60 C	C	White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1194939	HEN	7	576756	7030737	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C	C	White Spruce	Needle Cover	Good	Coarse	
1194940	HEN	7	576775	7030783	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B	B	Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1194941	HEN	7	576804	7030849	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C	C	Black Spruce	Leaf Cover	Good	Coarse	
1194942	HEN	7	576817	7030912	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C	C	Poplar	Leaf Cover	Good	Coarse	
1194943	HEN	7	576866	7030951	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C	C	Poplar	Leaf Cover	Good	Coarse	
1194944	HEN	7	576902	7031002	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C	C	Black Spruce	Needle Cover	Good	Coarse	
1194945	HEN	7	576903	7031049	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C	C	Dwarf Birch	Leaf Cover	Excellent	Clay	
1194946	HEN	7	576928	7031152	6/7/2011	Chocolate Brown	Sand	Dry	Steep	30 B	B	Poplar	Leaf Cover	Poor	Clay	
1194947	HEN	7	576906	7031101	6/7/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	40 B	B	Dwarf Birch	Leaf Cover	Good	Coarse	
1194948	HEN	7	576940	7031203	6/7/2011	Chocolate Brown	Sand	Dry	Steep	30 B	B	Dwarf Birch	Grass Cover	Poor	Fine	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1194949	HEN	7	576950	7031252	6/7/2011	Dark Olivine Green	Sand	Damp	Pronounced Slope	70 C		Birch Forest	Grass Cover	Excellent	Coarse	
1194950	HEN	7	576961	7031303	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	100 C		Dwarf Birch	Leaf Cover	Excellent	Coarse	
1194951	HEN	7	580621	7026601	6/6/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	80 C		Black Spruce	Grass Cover	Excellent	Rocky	
1194952	HEN	7	580661	7026633	6/6/2011	Grey	Silt	Dry	Subtle Slope	80 C		Black Spruce	Needle Cover	Excellent	Rocky	
1194953	HEN	7	580674	7026680	6/6/2011	Reddish Brown	Gravel	Dry	Pronounced Slope	60 C		Black Spruce	Bare Soil	Excellent	Rocky	
1194954	HEN	7	580718	7026708	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Black Spruce	Bare Soil	Excellent	Rocky	
1194955	HEN	7	580766	7026708	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Bare Soil	Excellent	Rocky	Quartz Chips
1194956	HEN	7	580812	7026724	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Bare Soil	Excellent	Rocky	
1194957	HEN	7	580849	7026757	6/6/2011	Bluish Grey	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Bare Soil	Excellent	Rocky	
1194958	HEN	7	580886	7026793	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Bare Soil	Excellent	Rocky	
1194959	HEN	7	580926	7026826	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Black Spruce	Bare Soil	Excellent	Rocky	
1194961	HEN	7	581023	7026856	6/6/2011	Bluish Grey	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	
1195501	HEN	7	587999	7022652	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C		Black Spruce	Leaf Cover	Good	Sand	
1195502	HEN	7	587950	7022630	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1195503	HEN	7	587887	7022656	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1195504	HEN	7	587833	7022668	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1195508	HEN	7	586553	7021080	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195509	HEN	7	586566	7021135	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1195510	HEN	7	586571	7021189	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Poplar	Leaf Cover	Excellent	Fine	
1195511	HEN	7	586595	7021344	6/8/2011	Light Brown	Gravel	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195512	HEN	7	586605	7021397	6/8/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1195513	HEN	7	586574	7021239	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 C		Birch Forest	Leaf Cover	Good	Fine	
1195514	HEN	7	586516	7020973	6/8/2011	Chocolate Brown	Gravel	Damp	Flat	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1195515	HEN	7	586464	7020828	6/8/2011	Reddish Yellow	Sand	Dry	Flat	40 C		Birch Forest	Grass Cover	Excellent	Sand	
1195516	HEN	7	586482	7020878	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	30 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Fine	
1195517	HEN	7	586503	7020924	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Partially Frozen
1195518	HEN	7	586542	7021020	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 C		Black Spruce	Needle Cover	Excellent	Fine	
1195519	HEN	7	586584	7021290	6/8/2011	Chocolate Brown	Gravel	Damp	Flat	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195520	HEN	7	586635	7021607	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1195521	HEN	7	587051	7023172	6/8/2011	Reddish Brown	Gravel	Dry	Flat	50 C		Black Spruce	Leaf Cover	Good	Rocky	
1195522	HEN	7	586208	7023501	6/8/2011	Reddish Brown	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195523	HEN	7	586206	7023550	6/8/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	60 C		Subalpine Fir	Sphagnum Moss < 30cm	Excellent	Fine	
1195524	HEN	7	586236	7023591	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1195525	HEN	7	587062	7023224	6/8/2011	Chocolate Brown	Gravel	Dry	Flat	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1195526	HEN	7	586645	7021664	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195527	HEN	7	586654	7021717	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195528	HEN	7	586240	7023640	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Poplar	Grass Cover	Good	Rocky	
1195529	HEN	7	587064	7023273	6/8/2011	Chocolate Brown	Gravel	Dry	Flat	50 C		Black Spruce	Leaf Cover	Good	Rocky	
1195530	HEN	7	587038	7023316	6/8/2011	Chocolate Brown	Gravel	Dry	Flat	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1195531	HEN	7	585795	7022305	6/8/2011	Yellow	Gravel	Damp	Pronounced Slope	60 C		Black Spruce	Leaf Cover	Excellent	Rocky	
1195532	HEN	7	585812	7022361	6/8/2011	Greyish Green	Clay	Wet	Pronounced Slope	60 C		Black Spruce	Needle Cover	Excellent	Clay	
1195533	HEN	7	586612	7021449	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	20 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1195534	HEN	7	586629	7021557	6/8/2011	Chocolate Brown	Gravel	Damp	Flat	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1195535	HEN	7	586678	7021867	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195536	HEN	7	586694	7021915	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195545	HEN	7	588348	7022649	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Black Spruce	Leaf Cover	Poor	Small Sample	Organic 10%
1195546	HEN	7	584557	7021890	6/8/2011	Reddish Brown	Sand	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Coarse	
1195547	HEN	7	585865	7022414	6/8/2011	Dark Brown	Gravel	Damp	Pronounced Slope	40 C		Black Spruce	Leaf Cover	Good	Wet Soil	
1195548	HEN	7	585900	7022474	6/8/2011	Dark Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Thin Moss Cover	Poor	Rocky	
1195550	HEN	7	585934	7022553	6/8/2011	Chocolate Brown	Sand	Dry	Steep	40 B		Poplar	Grass Cover	Poor	Rocky	
1195551	HEN	7	586129	7023211	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Grass Cover	Excellent	Fine	
1195552	HEN	7	587783	7022697	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1195553	HEN	7	587733	7022700	6/8/2011	Chocolate Brown	Clay	Dry	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Coarse	
1195554	HEN	7	587708	7022745	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1195555	HEN	7	586447	7020774	6/8/2011	Chocolate Brown	Clay	Damp	Flat	40 C		Birch Forest	Leaf Cover	Excellent	Rocky	
1195567	HEN	7	585762	7022070	6/8/2011	Light Grey	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	Frozen
1195568	HEN	7	585729	7022116	6/8/2011	Greyish Green	Gravel	Damp	Steep	60 C		Poplar	Leaf Cover	Excellent	Rocky	
1195569	HEN	7	585760	7022162	6/8/2011	Grey	Sand	Dry	Steep	70 C		Poplar	Grass Cover	Excellent	Coarse	
1195570	HEN	7	585767	7022256	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 B		Poplar	Grass Cover	Good	Fine	
1195571	HEN	7	585961	7022607	6/8/2011	Chocolate Brown	Sand	Dry	Steep	40 B		Poplar	Grass Cover	Good	Rocky	
1195572	HEN	7	586071	7023026	6/8/2011	Dark Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Grass Cover	Poor	Rocky	Frozen
1195573	HEN	7	586088	7023072	6/8/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	80 C		Poplar	Leaf Cover	Excellent	Fine	
1195574	HEN	7	586083	7023121	6/8/2011	Reddish Orange	Gravel	Damp	Pronounced Slope	80 C		Black Spruce	Thin Moss Cover	Excellent	Fine	
1195575	HEN	7	586103	7023166	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Poplar	Grass Cover	Good	Rocky	
1195576	HEN	7	588307	7022620	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Leaf Cover	Good	Coarse	
1195577	HEN	7	588256	7022637	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Needle Cover	Good	Sand	
1195578	HEN	7	588203	7022638	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 B		Dwarf Birch	Leaf Cover	Good	Coarse	
1195579	HEN	7	588203	7022638	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 B		Dwarf Birch	Leaf Cover	Good	Coarse	
1195580	HEN	7	588151	7022635	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 B		Black Spruce	Leaf Cover	Good	Sand	
1195581	HEN	7	587661	7022769	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Poor	Sand	
1195582	HEN	7	587569	7022740	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Poplar	Leaf Cover	Poor	Rocky	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1195583	HEN	7	587519	7022739	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Poplar	Leaf Cover	Poor	Rocky	
1195584	HEN	7	587480	7022774	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Poplar	Sphagnum Moss > 30cm	Good	Rocky	
1195585	HEN	7	587452	7022814	6/8/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1195586	HEN	7	587404	7022828	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1195587	HEN	7	587358	7022846	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Poplar	Leaf Cover	Good	Rocky	
1195588	HEN	7	587312	7022864	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Poplar	Leaf Cover	Good	Sand	
1195589	HEN	7	587265	7022883	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Black Spruce	Leaf Cover	Good	Rocky	
1195590	HEN	7	587236	7022925	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Pine	Sphagnum Moss > 30cm	Good	Clay	
1195591	HEN	7	587204	7022963	6/8/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50 B		Poplar	Sphagnum Moss > 30cm	Good	Rocky	
1195592	HEN	7	587180	7023009	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		White Spruce	Thin Moss Cover	Good	Rocky	
1195593	HEN	7	587142	7023042	6/8/2011	Chocolate Brown	Gravel	Damp	Flat	40 B		Poplar	Leaf Cover	Good	Rocky	
1195594	HEN	7	586149	7023258	6/8/2011	Reddish Brown	Gravel	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Fine	
1195595	HEN	7	587105	7023081	6/8/2011	Grey	Gravel	Dry	Flat	30 B		Poplar	Grass Cover	Poor	Rocky	
1195596	HEN	7	587078	7023124	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 B		Black Spruce	Leaf Cover	Good	Rocky	
1195597	HEN	7	586167	7023303	6/8/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1195598	HEN	7	586162	7023355	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	70 C		Poplar	Thin Moss Cover	Excellent	Fine	
1195599	HEN	7	586175	7023404	6/8/2011	Light Brown	Gravel	Damp	Subtle Slope	60 C		Poplar	Sphagnum Moss < 30cm	Excellent	Fine	
1195600	HEN	7	586195	7023449	6/8/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1196129	HEN	7	584908	7027601	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C		Black Spruce	Reindeer Moss	Good	Coarse	
1196130	HEN	7	584933	7027647	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	80 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Fine	
1196131	HEN	7	584933	7027647	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	80 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Fine	
1196132	HEN	7	584931	7027703	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		Birch Forest	Leaf Cover	Excellent	Fine	
1196133	HEN	7	584938	7027754	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	60 C		Birch Forest	Sphagnum Moss < 30cm	Good	Fine	
1196134	HEN	7	584932	7027803	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1196135	HEN	7	584929	7027856	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Birch Forest	Sphagnum Moss < 30cm	Good	Fine	
1196136	HEN	7	584737	7026774	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1196137	HEN	7	584787	7026773	6/6/2011	Reddish Brown	Silt	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196138	HEN	7	584836	7026779	6/6/2011	Dark Brown	Gravel	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Sand	
1196139	HEN	7	584883	7026799	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1196140	HEN	7	584934	7026806	6/6/2011	Reddish Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1196141	HEN	7	584985	7026818	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	Quartz Chips
1196142	HEN	7	585013	7026859	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Quartz Chips	
1196143	HEN	7	584994	7026904	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Birch Forest	Leaf Cover	Excellent	Quartz Chips	
1196144	HEN	7	584974	7026950	6/6/2011	Chocolate Brown	Silt	Dry	Subtle Slope	30 B		Black Spruce	Reindeer Moss	Good	Fine	
1196145	HEN	7	584946	7026991	6/6/2011	Dark Brown	Silt	Dry	Subtle Slope	70 C		Black Spruce	Reindeer Moss	Excellent	Coarse	
1196146	HEN	7	584925	7027042	6/6/2011	Reddish Brown	Silt	Dry	Subtle Slope	50 C		Black Spruce	Reindeer Moss	Excellent	Coarse	
1196147	HEN	7	584895	7027083	6/6/2011	Reddish Brown	Silt	Dry	Subtle Slope	70 C		Black Spruce	Reindeer Moss	Excellent	Coarse	
1196148	HEN	7	584866	7027124	6/6/2011	Chocolate Brown	Silt	Damp	Subtle Slope	50 B		Black Spruce	Reindeer Moss	Good	Partially Frozen	
1196149	HEN	7	584823	7027152	6/6/2011	Reddish Yellow	Silt	Dry	Subtle Slope	70 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Rocky	Coarse
1196150	HEN	7	584775	7027142	6/6/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196286	HEN	7	581472	7027518	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Excellent	Rocky	
1196287	HEN	7	581472	7027518	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Excellent	Rocky	
1196288	HEN	7	581455	7027471	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Leaf Cover	Excellent	Rocky	
1196289	HEN	7	581448	7027419	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Leaf Cover	Excellent	Rocky	
1196290	HEN	7	581419	7027374	6/4/2011	Bluish Grey	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Rocky	
1196291	HEN	7	581393	7027329	6/4/2011	Reddish Orange	Sand	Dry	Steep	30 B		Poplar	Leaf Cover	Poor	Rocky	Small Sample
1196292	HEN	7	581382	7027281	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	20 B		Poplar	Leaf Cover	Poor	Rocky	Small Sample
1196293	HEN	7	581388	7027231	6/4/2011	Dark Brown	Gravel	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Fine	
1196294	HEN	7	581390	7027187	6/4/2011	Dark Brown	Clay	Damp	Pronounced Slope	30 B		Poplar	Leaf Cover	Good	Rocky	
1196295	HEN	7	581376	7027139	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1196296	HEN	7	581376	7027139	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1196297	HEN	7	581358	7027090	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Rocky	
1196298	HEN	7	581350	7026988	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C		Poplar	Leaf Cover	Good	Rocky	
1196299	HEN	7	581356	7027039	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1196300	HEN	7	581356	7026938	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	20 B		Poplar	Leaf Cover	Good	Rocky	
1196319	HEN	7	574621	7030058	6/3/2011	Chocolate Brown	Gravel	Damp	Flat	70 C		Old Burn	Thin Moss Cover	Excellent	Rocky	
1196320	HEN	7	574648	7030102	6/3/2011	Chocolate Brown	Gravel	Dry	Flat	70 C		Old Burn	Thin Moss Cover	Excellent	Coarse	
1196321	HEN	7	574679	7030142	6/3/2011	Dark Olivine Green	Gravel	Dry	Flat	70 C		Old Burn	Thin Moss Cover	Excellent	Coarse	
1196322	HEN	7	574703	7030188	6/3/2011	Bluish Grey	Gravel	Dry	Flat	70 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1196323	HEN	7	574729	7030230	6/3/2011	Chocolate Brown	Gravel	Dry	Flat	60 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1196324	HEN	7	574760	7030272	6/3/2011	Reddish Brown	Gravel	Dry	Flat	50 C		Pine	Thin Moss Cover	Excellent	Coarse	
1196325	HEN	7	574793	7030313	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1196326	HEN	7	574825	7030352	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Rocky	
1196327	HEN	7	574858	7030391	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1196328	HEN	7	574891	7030430	6/3/2011	Chocolate Brown	Clay	Wet	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Mud	
1196329	HEN	7	574920	7030473	6/3/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1196330	HEN	7	574952	7030511	6/3/2011	Chocolate Brown	Gravel	Damp	Flat	30 C		Black Spruce	Sphagnum Moss > 30cm	Good	Partially Frozen	
1196331	HEN	7	574989	7030547	6/3/2011	Light Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Thin Moss Cover	Excellent	Rocky	
1196332	HEN	7	575016	7030590	6/3/2011	Reddish Brown	Gravel	Dry	Subtle Slope	30 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1196333	HEN	7	575047	7030631	6/3/2011	Light Brown	Gravel	Dry	Subtle Slope	30 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1196334	HEN	7	575076	7030673	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 C		Black Spruce	Thin Moss Cover	Good	Partially Frozen	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1196335	HEN	7	575105	7030715	6/3/2011	Bluish Grey	Clay	Damp	Flat	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1196336	HEN	7	575132	7030758	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	20 B		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1196338	HEN	7	575452	7031363	6/3/2011	Reddish Brown	Gravel	Dry	Flat	60 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1196339	HEN	7	575471	7031410	6/3/2011	Light Brown	Clay	Dry	Flat	70 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1196340	HEN	7	574591	7030016	6/3/2011	Reddish Brown	Gravel	Dry	Flat	80 C		Old Burn	Thin Moss Cover	Excellent	Coarse	
1196341	HEN	7	574591	7030016	6/3/2011	Reddish Brown	Gravel	Dry	Flat	80 C		Old Burn	Thin Moss Cover	Excellent	Coarse	
1196342	HEN	7	578245	7025985	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	90 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1196349	HEN	7	582499	7027989	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	100 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1196350	HEN	7	582465	7027954	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	110 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1196393	HEN	7	580669	7027341	6/4/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	50 C		Poplar	Grass Cover	Excellent	Coarse	
1196394	HEN	7	580716	7027315	6/4/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Grass Cover	Excellent	Coarse	
1196395	HEN	7	580619	7027359	6/4/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	30 C		Poplar	Grass Cover	Excellent	Coarse	
1196396	HEN	7	574545	7030291	6/3/2011	Chocolate Brown	Sand	Damp	Flat	20 B		Black Spruce	Sphagnum Moss < 30cm	Good	Sand	Partially Frozen
1196397	HEN	7	574501	7030265	6/3/2011	Chocolate Brown	Sand	Dry	Flat	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196398	HEN	7	574314	7030155	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 B		Old Burn	Grass Cover	Good	Coarse	Partially Frozen
1196399	HEN	7	574273	7030123	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Old Burn	Sphagnum Moss < 30cm	Excellent	Coarse	
1196400	HEN	7	574175	7030082	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 C		Old Burn	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1196435	HEN	7	574082	7029392	6/3/2011	Chocolate Brown	Clay	Wet	Flat	50 B		Old Burn	Grass Cover	Poor	Clay	
1196436	HEN	7	574101	7029315	6/3/2011	Chocolate Brown	Clay	Damp	Flat	60 C		Old Burn	Thin Moss Cover	Good	Clay	
1196437	HEN	7	574116	7029251	6/3/2011	Reddish Orange	Sand	Dry	Flat	50 C		Old Burn	Grass Cover	Good	Sand	
1196438	HEN	7	574187	7029193	6/3/2011	Reddish Brown	Clay	Dry	Flat	60 C		Poplar	Leaf Cover	Good	Clay	
1196439	HEN	7	574249	7029136	6/3/2011	Reddish Orange	Clay	Dry	Flat	80 C		Poplar	Leaf Cover	Good	Sand	
1196440	HEN	7	574266	7029048	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		Poplar	Grass Cover	Good	Sand	
1196441	HEN	7	574341	7029005	6/3/2011	Reddish Brown	Clay	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1196442	HEN	7	574456	7028964	6/3/2011	Reddish Yellow	Sand	Dry	Flat	60 C		Poplar	Leaf Cover	Good	Sand	
1196443	HEN	7	574537	7028915	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1196444	HEN	7	574630	7028972	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Poplar	Leaf Cover	Good	Sand	
1196445	HEN	7	577750	7027042	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Sphagnum Moss > 30cm	Good	Sand	
1196448	HEN	7	577717	7027001	6/4/2011	Chocolate Brown	Sand	Dry	Flat	60 C		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1196449	HEN	7	577717	7027001	6/4/2011	Chocolate Brown	Sand	Dry	Flat	60 C		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1196507	HEN	7	584042	7026133	6/7/2011	Chocolate Brown	Clay	Damp	Steep	60 C		Poplar	Leaf Cover	Excellent	Clay	
1196508	HEN	7	584071	7026174	6/7/2011	Chocolate Brown	Clay	Wet	Subtle Slope	30 B		White Spruce	Leaf Cover	Poor	Organic 25%	
1196509	HEN	7	584126	7026173	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Birch Forest	Leaf Cover	Good	Sand	
1196510	HEN	7	585278	7026207	6/7/2011	Chocolate Brown	Silt	Dry	Steep	40 C		Poplar	Leaf Cover	Excellent	Fine	
1196511	HEN	7	585232	7026188	6/7/2011	Reddish Yellow	Silt	Dry	Steep	70 C		Poplar	Leaf Cover	Excellent	Fine	
1196512	HEN	7	585180	7026186	6/7/2011	Reddish Brown	Silt	Dry	Steep	50 C		White Spruce	Leaf Cover	Excellent	Fine	
1196513	HEN	7	585129	7026183	6/7/2011	Chocolate Brown	Sand	Dry	Steep	50 C		White Spruce	Leaf Cover	Excellent	Sand	
1196514	HEN	7	585081	7026177	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		White Spruce	Leaf Cover	Excellent	Sand	
1196515	HEN	7	585030	7026173	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Leaf Cover	Excellent	Sand	
1196516	HEN	7	584980	7026178	6/7/2011	Reddish Yellow	Sand	Dry	Steep	40 C		Poplar	Leaf Cover	Excellent	Sand	
1196517	HEN	7	584930	7026177	6/7/2011	Chocolate Brown	Sand	Dry	Steep	30 C		White Spruce	Leaf Cover	Good	Sand	
1196518	HEN	7	585330	7026213	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Leaf Cover	Excellent	Sand	
1196519	HEN	7	584335	7026182	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Leaf Cover	Good	Sand	
1196520	HEN	7	584284	7026182	6/7/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Excellent	Sand	
1196521	HEN	7	584233	7026177	6/7/2011	Reddish Brown	Sand	Damp	Pronounced Slope	70 C		White Spruce	Leaf Cover	Excellent	Clay	
1196522	HEN	7	584233	7026177	6/7/2011	Reddish Brown	Sand	Damp	Pronounced Slope	70 C		White Spruce	Leaf Cover	Excellent	Clay	
1196523	HEN	7	584180	7026174	6/7/2011	Dark Brown	Clay	Dry	Pronounced Slope	60 C		White Spruce	Leaf Cover	Excellent	Clay	
1196524	HEN	7	584385	7026169	6/7/2011	Grey	Silt	Dry	Steep	50 C		Poplar	Leaf Cover	Excellent	Fine	
1196525	HEN	7	584437	7026175	6/7/2011	Chocolate Brown	Silt	Dry	Steep	40 C		Poplar	Leaf Cover	Excellent	Fine	
1196526	HEN	7	584489	7026179	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		White Spruce	Leaf Cover	Excellent	Sand	
1196527	HEN	7	584843	7026187	6/7/2011	Dark Brown	Clay	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Clay	
1196528	HEN	7	584792	7026201	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Clay	
1196529	HEN	7	584741	7026195	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50 C		White Spruce	Needle Cover	Excellent	Clay	
1196530	HEN	7	584690	7026185	6/7/2011	Chocolate Brown	Clay	Wet	Subtle Slope	40 B		White Spruce	Needle Cover	Poor	Clay	
1196531	HEN	7	584641	7026173	6/7/2011	Grey	Clay	Damp	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Clay	
1196532	HEN	7	584592	7026167	6/7/2011	Grey	Clay	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Clay	
1196533	HEN	7	584543	7026172	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 C		White Spruce	Leaf Cover	Excellent	Clay	
1196534	HEN	7	584883	7026156	6/7/2011	Chocolate Brown	Sand	Dry	Steep	40 C		White Spruce	Leaf Cover	Good	Sand	
1196535	HEN	7	584015	7026035	6/7/2011	Reddish Yellow	Clay	Damp	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Clay	
1196536	HEN	7	583983	7025996	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 B		Poplar	Leaf Cover	Good	Clay	
1196537	HEN	7	583932	7025979	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	
1196538	HEN	7	583885	7025957	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 C		White Spruce	Leaf Cover	Good	Clay	
1196541	HEN	7	584030	7026084	6/7/2011	Reddish Brown	Sand	Dry	Pronounced Slope	80 C		Poplar	Leaf Cover	Excellent	Sand	
1196542	HEN	7	576836	7028229	6/3/2011	Light Brown	Silt	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Fine	
1196543	HEN	7	576868	7028268	6/3/2011	Reddish Orange	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	
1196544	HEN	7	576888	7028315	6/3/2011	Chocolate Brown	Sand	Dry	Flat	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Organic 10%	
1196545	HEN	7	576909	7028367	6/3/2011	Reddish Yellow	Clay	Damp	Subtle Slope	50 C		Black Spruce	Needle Cover	Good	Clay	
1196546	HEN	7	576939	7028411	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		Black Spruce	Needle Cover	Good	Small Sample	
1196547	HEN	7	578232	7028503	6/4/2011	Bluish Grey	Sand	Damp	Pronounced Slope	30 C		Birch Forest	Leaf Cover	Good	Rocky	Small Sample
1196548	HEN	7	578146	7028269	6/4/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sandy	
1196549	HEN	7	576939	7028462	6/3/2011	Reddish Yellow	Sand	Dry	Flat	40 C		Black Spruce	Leaf Cover	Excellent	Coarse	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1196650	HEN	7	578181	7028361	6/4/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	60 C		Black Spruce	Needle Cover	Excellent	Fine	
1196650	HEN	7	578197	7030182	6/3/2011	Reddish Brown	Sand	Damp	Subtle Slope	50 C		Old Burn	Leaf Cover	Excellent	Coarse	Rocky
1196653	HEN	7	577401	7029256	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Quartz Chips	
1196654	HEN	7	577401	7029256	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Quartz Chips	
1196655	HEN	7	577405	7029309	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	Partially Frozen
1196656	HEN	7	577408	7029363	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Quartz Chips	
1196657	HEN	7	577410	7029414	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Leaf Cover	Excellent	Coarse	
1196658	HEN	7	577405	7029472	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1196659	HEN	7	577397	7029580	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196661	HEN	7	577403	7029530	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1196665	HEN	7	577415	7029202	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196666	HEN	7	577427	7029150	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	60 C		White Spruce	Needle Cover	Good	Sand	
1196669	HEN	7	577454	7029097	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Alders	Leaf Cover	Excellent	Sand	
1196675	HEN	7	577483	7028992	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Rocky	
1196681	HEN	7	577489	7028792	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196687	HEN	7	577268	7028087	6/3/2011	Bluish Grey	Silt	Damp	Flat	30 B		White Spruce	Sphagnum Moss < 30cm	Good	Organic 10%	
1196688	HEN	7	577200	7027952	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	70 C		White Spruce	Leaf Cover	Good	Coarse	
1196689	HEN	7	577200	7027952	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	70 C		White Spruce	Leaf Cover	Good	Coarse	
1196690	HEN	7	577221	7027994	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 C		White Spruce	Needle Cover	Poor	Partially Frozen	
1196691	HEN	7	577250	7028037	6/3/2011	Bluish Grey	Clay	Damp	Flat	30 C		White Spruce	Needle Cover	Good	Frozen	
1196692	HEN	7	577330	7028227	6/3/2011	Bluish Grey	Clay	Damp	Subtle Slope	60 C		White Spruce	Needle Cover	Good	Partially Frozen	
1196693	HEN	7	577416	7028376	6/3/2011	Chocolate Brown	Sand	Dry	Flat	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196694	HEN	7	577464	7028475	6/3/2011	Chocolate Brown	Sand	Dry	Flat	40 C		White Spruce	Thin Moss Cover	Good	Quartz Chips	
1196709	HEN	7	580253	7028258	6/4/2011	Dark Olivine Green	Sand	Damp	Flat	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Clay
1196710	HEN	7	580216	7028220	6/4/2011	Reddish Yellow	Sand	Damp	Flat	50 C		White Spruce	Needle Cover	Excellent	Clay	Fine
1196711	HEN	7	580185	7028172	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Clay
1196712	HEN	7	580164	7028135	6/4/2011	Reddish Yellow	Sand	Damp	Subtle Slope	50 C		White Spruce	Needle Cover	Excellent	Coarse	Sand
1196713	HEN	7	580142	7028088	6/4/2011	Dark Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Clay
1196714	HEN	7	580136	7028038	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Quartz Chips
1196715	HEN	7	580033	7027867	6/4/2011	Reddish Yellow	Sand	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Clay	Coarse
1196716	HEN	7	579999	7027831	6/4/2011	Reddish Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	Sand
1196717	HEN	7	579999	7027831	6/4/2011	Reddish Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	Sand
1196718	HEN	7	579970	7027789	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Excellent	Sand	Quartz Chips
1196719	HEN	7	579970	7027789	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Excellent	Sand	Quartz Chips
1196721	HEN	7	589328	7021047	6/9/2011	Grey	Gravel	Damp	Subtle Slope	40 C		Poplar	Grass Cover	Excellent	Sand	Rocky
1196722	HEN	7	579950	7027759	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Excellent	Quartz Chips	Rocky
1196724	HEN	7	580128	7027979	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Needle Cover	Excellent	Sand	Coarse
1196725	HEN	7	579950	7027759	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Excellent	Quartz Chips	Rocky
1196726	HEN	7	580089	7027941	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Clay	Rocky
1196727	HEN	7	580442	7028604	6/4/2011	Reddish Orange	Sand	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Clay
1196728	HEN	7	580519	7028733	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		White Spruce	Needle Cover	Excellent	Clay	Quartz Chips
1196729	HEN	7	580474	7028655	6/4/2011	Dark Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	Clay
1196730	HEN	7	580780	7029189	6/4/2011	Dark Olivine Green	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Excellent	Rocky	Coarse
1196731	HEN	7	580548	7028776	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Clay	Rocky
1196732	HEN	7	580565	7028832	6/4/2011	Dark Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	Coarse
1196733	HEN	7	580492	7028696	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	30 C		Poplar	Grass Cover	Excellent	Sand	Quartz Chips
1196734	HEN	7	580602	7028870	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	Rocky
1196735	HEN	7	580619	7028913	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Excellent	Coarse	Rocky
1196736	HEN	7	580633	7028960	6/4/2011	Dark Brown	Silt	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	Rocky
1196737	HEN	7	580689	7029049	6/4/2011	Reddish Brown	Sand	Damp	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1196738	HEN	7	580669	7029012	6/4/2011	Reddish Yellow	Silt	Dry	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Sand	Rocky
1196739	HEN	7	580719	7029092	6/4/2011	Reddish Orange	Sand	Damp	Subtle Slope	40 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	Sand
1196740	HEN	7	580747	7029133	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Excellent	Sand	Coarse
1196741	HEN	7	589177	7021187	6/9/2011	Dark Brown	Clay	Damp	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Quartz Chips	Sand
1196742	HEN	7	589302	7021091	6/9/2011	Light Brown	Sand	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Rocky	Quartz Chips
1196743	HEN	7	589230	7021168	6/9/2011	Reddish Yellow	Gravel	Damp	Pronounced Slope	50 C		White Spruce	Grass Cover	Excellent	Sand	Clay
1196745	HEN	7	589142	7021298	6/9/2011	Light Grey	Silt	Dry	Pronounced Slope	90 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	Fine
1196746	HEN	7	589118	7021286	6/9/2011	Dark Grey Black	Clay	Damp	Subtle Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	Sand
1196747	HEN	7	589079	7021318	6/9/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Sand
1196748	HEN	7	589274	7021140	6/9/2011	Light Brown	Clay	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Sand	Rocky
1196749	HEN	7	589053	7021398	6/9/2011	Dark Brown	Gravel	Damp	Pronounced Slope	40 C		Poplar	Grass Cover	Excellent	Sand	Quartz Chips
1196750	HEN	7	589068	7021362	6/9/2011	Grey	Sand	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	Rocky
1196760	HEN	7	582162	7026527	6/7/2011	Light Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Grass Cover	Excellent	Sand	
1196761	HEN	7	582199	7026493	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 B		Poplar	Grass Cover	Good	Sand	
1196762	HEN	7	582237	7026460	6/7/2011	Light Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Grass Cover	Excellent	Sand	
1196763	HEN	7	582272	7026426	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Black Spruce	Grass Cover	Good	Sand	
1196764	HEN	7	583417	7021889	6/8/2011	Chocolate Brown	Silt	Dry	Steep	50 C		Poplar	Grass Cover	Good	Rocky	
1196765	HEN	7	578526	7029877	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 B		Old Burn	Thin Moss Cover	Good	Fine	
1196766	HEN	7	578533	7029931	6/4/2011	Light Brown	Silt	Dry	Pronounced Slope	10 A		Old Burn	Thin Moss Cover	Poor	Small Sample	Fine
1196768	HEN	7	575884	7029860	6/3/2011	Chocolate Brown	Sand	Damp	Steep	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1196769	HEN	7	575932	7029839	6/3/2011	Chocolate Brown	Sand	Damp	Steep	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Organic 10%	Mud



Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1196770	HEN	7	575984	7029824	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196771	HEN	7	576035	7029822	6/3/2011	Bluish Grey	Sand	Damp	Subtle Slope	30 B		Birch Forest	Sphagnum Moss < 30cm	Good	Mud	Coarse
1196772	HEN	7	576079	7029812	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	20 B		Birch Forest	Sphagnum Moss < 30cm	Good	Organic 10%	Coarse
1196773	HEN	7	576118	7029778	6/3/2011	Light Bluish Grey	Silt	Damp	Subtle Slope	60 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1196774	HEN	7	576219	7029691	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Good	Small Sample	Organic 10%
1196775	HEN	7	576250	7029633	6/3/2011	Dark Blue Black	Sand	Damp	Subtle Slope	40 B		Black Spruce	Thin Moss Cover	Good	Coarse	
1196776	HEN	7	576302	7029596	6/3/2011	Bluish Grey	Gravel	Dry	Pronounced Slope	50 C		Black Spruce	Thin Moss Cover	Good	Coarse	Quartz Chips
1196777	HEN	7	576387	7029589	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 B		Black Spruce	Thin Moss Cover	Excellent	Fine	
1196778	HEN	7	576446	7029558	6/3/2011	Reddish Brown	Sand	Damp	Subtle Slope	60 B		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1196779	HEN	7	576508	7029553	6/3/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	30 B		Black Spruce	Thin Moss Cover	Good	Coarse	Quartz Chips
1196780	HEN	7	576563	7029534	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 B		Black Spruce	Thin Moss Cover	Good	Coarse	
1196781	HEN	7	576661	7029519	6/3/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 B		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1196782	HEN	7	576753	7029529	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	20 B		Black Spruce	Thin Moss Cover	Good	Small Sample	Clay
1196783	HEN	7	576812	7029510	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	30 B		Black Spruce	Thin Moss Cover	Good	Small Sample	Rocky
1196784	HEN	7	576864	7029507	6/3/2011	Reddish Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Quartz Chips	Coarse
1196785	HEN	7	576921	7029511	6/3/2011	Light Brown	Clay	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Small Sample
1196786	HEN	7	576966	7029538	6/3/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 B		Birch Forest	Thin Moss Cover	Good	Coarse	
1196787	HEN	7	577002	7029597	6/3/2011	Dark Blue Black	Sand	Damp	Subtle Slope	20 A		Dwarf Birch	Sphagnum Moss < 30cm	Poor	Partially Frozen	Small Sample
1196788	HEN	7	577055	7029682	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 B		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1196789	HEN	7	577124	7029691	6/3/2011	Dark Brown	Sand	Damp	Subtle Slope	20 A		Birch Forest	Thin Moss Cover	Poor	Coarse	
1196790	HEN	7	577181	7029718	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 B		Birch Forest	Thin Moss Cover	Excellent	Quartz Chips	Coarse
1196791	HEN	7	577229	7029738	6/3/2011	Reddish Yellow	Sand	Damp	Subtle Slope	30 B		Birch Forest	Thin Moss Cover	Good	Quartz Chips	Rocky
1196792	HEN	7	577250	7029799	6/3/2011	Dark Brown	Sand	Dry	Subtle Slope	20 B		Birch Forest	Thin Moss Cover	Good	Coarse	
1196793	HEN	7	577318	7029828	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	20 B		Birch Forest	Thin Moss Cover	Good	Small Sample	Rocky
1196794	HEN	7	578555	7030194	6/4/2011	Reddish Brown	Sand	Dry	Flat	50 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	Quartz Chips
1196795	HEN	7	578586	7030250	6/4/2011	Reddish Yellow	Gravel	Dry	Flat	60 C		Black Spruce	Thin Moss Cover	Excellent	Quartz Chips	Coarse
1196796	HEN	7	578586	7030250	6/4/2011	Reddish Yellow	Gravel	Dry	Flat	60 C		Black Spruce	Thin Moss Cover	Excellent	Quartz Chips	Coarse
1196797	HEN	7	578646	7030295	6/4/2011	Light Grey	Sand	Dry	Flat	40 C		Birch Forest	Leaf Cover	Good	Quartz Chips	Small Sample
1196798	HEN	7	578673	7030362	6/4/2011	Chocolate Brown	Gravel	Damp	Flat	20 C		Birch Forest	Leaf Cover	Good	Small Sample	Rocky
1196799	HEN	7	578701	7030425	6/4/2011	Chocolate Brown	Sand	Damp	Flat	20 B		Birch Forest	Leaf Cover	Good	Organic 10%	Coarse
1196800	HEN	7	578931	7031094	6/4/2011	Reddish Orange	Sand	Damp	Flat	50 B		Dwarf Birch	Leaf Cover	Good	Coarse	
1196801	HEN	7	578323	7030072	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196802	HEN	7	578278	7030058	6/3/2011	Light Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Rocky
1196803	HEN	7	578226	7030070	6/3/2011	Chocolate Brown	Silt	Damp	Subtle Slope	30 C		Birch Forest	Leaf Cover	Good	Fine	Organic 10%
1196804	HEN	7	578177	7030063	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1196805	HEN	7	578077	7030018	6/3/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Organic 10%
1196806	HEN	7	577937	7029949	6/3/2011	Chocolate Brown	Silt	Wet	Subtle Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Partially Frozen
1196807	HEN	7	577878	7029955	6/3/2011	Light Brown	Silt	Damp	Pronounced Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196808	HEN	7	577827	7029965	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Mud
1196809	HEN	7	577767	7029961	6/3/2011	Light Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1196810	HEN	7	577564	7029903	6/3/2011	Chocolate Brown	Silt	Damp	Subtle Slope	40 C		Black Spruce	Needle Cover	Good	Fine	Organic 10%
1196811	HEN	7	577513	7029886	6/3/2011	Chocolate Brown	Silt	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Organic 10%
1196812	HEN	7	577433	7029823	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196813	HEN	7	577391	7029796	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Poplar	Leaf Cover	Good	Coarse	Organic 10%
1196814	HEN	7	577049	7029417	6/3/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196815	HEN	7	577049	7029417	6/3/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196816	HEN	7	577023	7029370	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	Organic 10%
1196817	HEN	7	577023	7029370	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	Organic 10%
1196818	HEN	7	577082	7029457	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196819	HEN	7	577121	7029500	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196820	HEN	7	577153	7029539	6/3/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196821	HEN	7	577188	7029574	6/3/2011	Light Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196822	HEN	7	577224	7029613	6/3/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Fine	Organic 10%
1196823	HEN	7	577265	7029641	6/3/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196824	HEN	7	577305	7029672	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196825	HEN	7	577328	7029719	6/3/2011	Light Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1196826	HEN	7	577354	7029762	6/3/2011	Reddish Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	Quartz Chips
1196827	HEN	7	577472	7029854	6/3/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Thin Moss Cover	Good	Coarse	Organic 10%
1196828	HEN	7	577661	7029935	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1196829	HEN	7	577613	7029920	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	30 C		Poplar	Leaf Cover	Good	Coarse	Rocky
1196830	HEN	7	577716	7029959	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196831	HEN	7	577979	7029976	6/3/2011	Light Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Clay
1196832	HEN	7	578024	7029998	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1196833	HEN	7	578128	7030036	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Organic 10%
1196834	HEN	7	578376	7030081	6/3/2011	Light Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1196835	HEN	7	578426	7030101	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Clay
1196836	HEN	7	577504	7028851	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	50 C		White Spruce	Needle Cover	Good	Quartz Chips	
1196837	HEN	7	577470	7029041	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1196839	HEN	7	577530	7028899	6/3/2011	Chocolate Brown	Clay	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Good	Clay	
1196840	HEN	7	577508	7028947	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Good	Quartz Chips	
1196841	HEN	7	577476	7028528	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Poplar	Leaf Cover	Good	Coarse	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1196842	HEN	7	577478	7028583	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Good	Coarse	Quartz Chips
1196843	HEN	7	577478	7028633	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		White Spruce	Thin Moss Cover	Good	Coarse	
1196844	HEN	7	577475	7028741	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Poor	Organic 10%	
1196845	HEN	7	577475	7028684	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196846	HEN	7	577291	7028132	6/3/2011	Grey	Silt	Dry	Subtle Slope	50 C		White Spruce	Needle Cover	Good	Fine	
1196847	HEN	7	577316	7028174	6/3/2011	Bluish Grey	Silt	Damp	Subtle Slope	50 C		White Spruce	Needle Cover	Good	Frozen	Organic 10%
1196848	HEN	7	577362	7028274	6/3/2011	Bluish Grey	Clay	Wet	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1196849	HEN	7	577407	7028323	6/3/2011	Grey	Silt	Dry	Subtle Slope	20 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196850	HEN	7	577447	7028425	6/3/2011	Chocolate Brown	Clay	Dry	Flat	30 C		White Spruce	Needle Cover	Good	Fine	
1196852	HEN	7	576978	7028761	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Small Sample	Organic 10%
1196853	HEN	7	576980	7028707	6/3/2011	Light Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1196854	HEN	7	576964	7028662	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		Poplar	Thin Moss Cover	Excellent	Sand	
1196855	HEN	7	576951	7028615	6/3/2011	Reddish Brown	Sand	Dry	Flat	50 C		Black Spruce	Thin Moss Cover	Excellent	Fine	
1196856	HEN	7	576945	7028567	6/3/2011	Chocolate Brown	Sand	Wet	Flat	30 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1196857	HEN	7	576938	7028512	6/3/2011	Reddish Yellow	Sand	Dry	Flat	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196858	HEN	7	576798	7028196	6/3/2011	Chocolate Brown	Clay	Wet	Subtle Slope	40 B		Poplar	Leaf Cover	Poor	Partially Frozen	
1196859	HEN	7	576760	7028164	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Poplar	Leaf Cover	Good	Clay	
1196860	HEN	7	578073	7028079	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C		Poplar	Leaf Cover	Good	Clay	
1196861	HEN	7	578082	7028128	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196862	HEN	7	578121	7028222	6/4/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1196863	HEN	7	578257	7028600	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Clay	
1196864	HEN	7	578283	7028638	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Coarse	
1196865	HEN	7	578305	7028686	6/4/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1196866	HEN	7	578337	7028784	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Sandy	
1196867	HEN	7	578323	7028734	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Excellent	Rocky Sample	
1196868	HEN	7	578369	7028828	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1196869	HEN	7	578377	7028873	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		No Tree Cover	Reindeer Moss	Excellent	Fine	
1196870	HEN	7	578446	7029044	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	40 C		Poplar	Thin Moss Cover	Excellent	Coarse	Small Sample
1196871	HEN	7	578427	7028997	6/4/2011	Reddish Yellow	Sand	Damp	Pronounced Slope	20 C		Poplar	Leaf Cover	Good	Rocky Sample	
1196872	HEN	7	578245	7028547	6/4/2011	Chocolate Brown	Sand	Dry	Steep	30 C		Birch Forest	Leaf Cover	Good	Sandy	
1196873	HEN	7	578092	7028176	6/4/2011	Chocolate Brown	Sand	Damp	Steep	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196874	HEN	7	578073	7028079	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C		Poplar	Leaf Cover	Good	Clay	
1196875	HEN	7	586051	7027434	6/7/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 C		White Spruce	Needle Cover	Good	Fine	
1196877	HEN	7	578398	7028920	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Sandy	
1196878	HEN	7	578460	7029100	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Sandy	
1196879	HEN	7	578467	7029150	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Needle Cover	Excellent	Sandy	
1196880	HEN	7	578453	7029273	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Sandy	
1196881	HEN	7	578449	7029224	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196882	HEN	7	578458	7029323	6/4/2011	Reddish Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Reindeer Moss	Excellent	Fine	
1196883	HEN	7	578459	7029372	6/4/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	20 C		Birch Forest	Leaf Cover	Good	Fine	
1196884	HEN	7	578491	7029409	6/4/2011	Grey	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Needle Cover	Excellent	Coarse	
1196885	HEN	7	578524	7029447	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Needle Cover	Excellent	Clay	
1196886	HEN	7	578540	7029495	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C		Black Spruce	Needle Cover	Good	Coarse	
1196887	HEN	7	578195	7028408	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Clay	
1196888	HEN	7	578566	7029535	6/4/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Needle Cover	Excellent	Sandy	
1196889	HEN	7	578222	7028451	6/4/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1196890	HEN	7	578591	7029576	6/4/2011	Reddish Yellow	Silt	Dry	Subtle Slope	50 C		Black Spruce	Needle Cover	Excellent	Coarse	
1196891	HEN	7	578606	7029630	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Sandy	
1196892	HEN	7	585034	7022363	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Excellent	Sand	
1196893	HEN	7	584887	7022505	6/8/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Sand	
1196895	HEN	7	585048	7022262	6/8/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1196896	HEN	7	585623	7021634	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1196897	HEN	7	584931	7022481	6/8/2011	Reddish Orange	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Clay	
1196899	HEN	7	584994	7022398	6/8/2011	Chocolate Brown	Clay	Dry	Subtle Slope	40 C		White Spruce	Leaf Cover	Excellent	Coarse	
1196900	HEN	7	585056	7022314	6/8/2011	Reddish Yellow	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1196901	HEN	7	578152	7030199	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 B		Old Burn	Leaf Cover	Good	Mud	
1196902	HEN	7	578102	7030196	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1196903	HEN	7	578053	7030192	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196904	HEN	7	577997	7030194	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1196905	HEN	7	577949	7030206	6/3/2011	Reddish Brown	Sand	Damp	Pronounced Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196906	HEN	7	577898	7030213	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	20 B		Black Spruce	Bare Soil	Good	Wet Soil	Partially Frozen
1196907	HEN	7	577850	7030229	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	20 B		Black Spruce	Bare Soil	Good	Partially Frozen	Coarse
1196908	HEN	7	577803	7030243	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196909	HEN	7	577751	7030250	6/3/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Black Spruce	Thin Moss Cover	Good	Coarse	Partially Frozen
1196910	HEN	7	577694	7030265	6/3/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 B		Black Spruce	Thin Moss Cover	Good	Coarse	
1196911	HEN	7	577646	7030274	6/3/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 B		Black Spruce	Thin Moss Cover	Poor	Partially Frozen	Organic 12%
1196912	HEN	7	577595	7030274	6/3/2011	Reddish Brown	Sand	Wet	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1196913	HEN	7	577549	7030296	6/3/2011	Reddish Brown	Sand	Wet	Pronounced Slope	30 B		Black Spruce	Bare Soil	Good	Rocky	
1196914	HEN	7	577505	7030322	6/3/2011	Reddish Brown	Sand	Damp	Pronounced Slope	70 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1196915	HEN	7	577505	7030322	6/3/2011	Reddish Brown	Sand	Damp	Pronounced Slope	70 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1196916	HEN	7	577455	7030330	6/3/2011	Reddish Brown	Sand	Damp	Pronounced Slope	60 C		Black Spruce	Thin Moss Cover	Good	Rocky	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1196917	HEN	7	577391	7030356	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1196918	HEN	7	577344	7030372	6/3/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Birch Forest	Sphagnum Moss < 30cm	Good	Fine	
1196919	HEN	7	577295	7030391	6/3/2011	Reddish Brown	Sand	Damp	Pronounced Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196920	HEN	7	577259	7030424	6/3/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	60 C		Birch Forest	Leaf Cover	Good	Fine	
1196921	HEN	7	577210	7030435	6/3/2011	Chocolate Brown	Silt	Dry	Steep	60 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1196922	HEN	7	577168	7030460	6/3/2011	Chocolate Brown	Sand	Wet	Pronounced Slope	50 B		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1196923	HEN	7	577120	7030475	6/3/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	
1196924	HEN	7	577085	7030529	6/3/2011	Chocolate Brown	Sand	Damp	Steep	50 B		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1196925	HEN	7	577037	7030593	6/3/2011	Reddish Brown	Sand	Damp	Pronounced Slope	70 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1196926	HEN	7	576984	7030591	6/3/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1196927	HEN	7	576932	7030581	6/3/2011	Reddish Brown	Sand	Dry	Steep	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1196928	HEN	7	576881	7030566	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1196929	HEN	7	576801	7030509	6/3/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	Frozen
1196930	HEN	7	585002	7027157	6/7/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	50 B		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1196931	HEN	7	585043	7026907	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Reindeer Moss	Excellent	Rocky	
1196932	HEN	7	585043	7026958	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Reindeer Moss	Excellent	Rocky	
1196933	HEN	7	585032	7027008	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Black Spruce	Reindeer Moss	Good	Rocky	Frozen
1196934	HEN	7	585021	7027058	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	20 B		Black Spruce	Reindeer Moss	Poor	Frozen	Rocky
1196935	HEN	7	585013	7027109	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Black Spruce	Reindeer Moss < 30cm	Poor	Partially Frozen	Rocky
1196936	HEN	7	584732	7027169	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1196937	HEN	7	584692	7027203	6/6/2011	Reddish Brown	Gravel	Dry	Subtle Slope	40 C		Birch Forest	Reindeer Moss	Excellent	Fine	
1196938	HEN	7	584648	7027234	6/6/2011	Reddish Brown	Silt	Dry	Subtle Slope	60 C		Black Spruce	Leaf Cover	Excellent	Fine	
1196939	HEN	7	584607	7027264	6/6/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1196940	HEN	7	584558	7027279	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196941	HEN	7	584516	7027310	6/6/2011	Chocolate Brown	Silt	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1196942	HEN	7	584469	7027324	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Rocky	Fine
1196943	HEN	7	584433	7027360	6/6/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1196944	HEN	7	584391	7027387	6/6/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	Quartz Chips
1196945	HEN	7	584350	7027411	6/6/2011	Dark Brown	Sand	Dry	Subtle Slope	80 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1196946	HEN	7	584350	7027411	6/6/2011	Dark Brown	Sand	Dry	Subtle Slope	80 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1196947	HEN	7	584312	7027443	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1196948	HEN	7	584293	7027488	6/6/2011	Dark Brown	Sand	Damp	Pronounced Slope	50 C		Birch Forest	Leaf Cover	Excellent	Rocky	
1196949	HEN	7	584278	7027538	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Rocky
1196950	HEN	7	584257	7027582	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Excellent	Coarse	Rocky
1196951	HEN	7	586893	7027592	6/6/2011	Chocolate Brown	Sand	Dry	Flat	40 C		White Spruce	Leaf Cover	Good	Fine	
1196952	HEN	7	579324	7030903	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Rocky	
1196953	HEN	7	579078	7030988	6/4/2011	Bluish Grey	Sand	Damp	Subtle Slope	30 C		Alders	Sphagnum Moss < 30cm	Good	Rocky	Small Sample
1196954	HEN	7	579128	7030975	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Thin Moss Cover	Good	Rocky	
1196955	HEN	7	579227	7030949	6/4/2011	Bluish Grey	Sand	Dry	Subtle Slope	40 C		Alders	Needle Cover	Good	Rocky	
1196956	HEN	7	579173	7030960	6/4/2011	Chocolate Brown	Silt	Damp	Subtle Slope	20 C		Poplar	Leaf Cover	Poor	Partially Frozen	Organic 10%
1196957	HEN	7	579275	7030922	6/4/2011	Bluish Grey	Sand	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Good	Rocky	
1196958	HEN	7	579375	7030893	6/4/2011	Bluish Grey	Sand	Dry	Subtle Slope	40 C		Alders	Sphagnum Moss < 30cm	Good	Coarse	
1196959	HEN	7	579433	7030870	6/4/2011	Grey	Sand	Dry	Flat	40 C		Alders	Leaf Cover	Good	Rocky	
1196960	HEN	7	579496	7030849	6/4/2011	Chocolate Brown	Sand	Dry	Flat	20 C		Alders	Leaf Cover	Good	Rocky	
1196961	HEN	7	579580	7030778	6/4/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Alders	Thin Moss Cover	Excellent	Fine	
1196962	HEN	7	579628	7030749	6/4/2011	Chocolate Brown	Clay	Damp	Flat	40 C		Alders	Leaf Cover	Good	Rocky	
1196963	HEN	7	579663	7030714	6/4/2011	Chocolate Brown	Silt	Dry	Subtle Slope	30 C		Poplar	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1196964	HEN	7	579722	7030670	6/4/2011	Chocolate Brown	Silt	Dry	Subtle Slope	30 C		Poplar	Leaf Cover	Good	Partially Frozen	
1196965	HEN	7	580053	7030579	6/4/2011	Chocolate Brown	Silt	Wet	Subtle Slope	20 C		White Spruce	Sphagnum Moss < 30cm	Poor	Frozen	Organic 10%
1196966	HEN	7	579782	7030667	6/4/2011	Chocolate Brown	Silt	Damp	Subtle Slope	20 C		White Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1196967	HEN	7	579541	7030815	6/4/2011	Reddish Yellow	Sand	Dry	Flat	40 C		Poplar	Thin Moss Cover	Good	Quartz Chips	
1196968	HEN	7	579829	7030655	6/4/2011	Greyish Green	Sand	Damp	Subtle Slope	30 C		White Spruce	Needle Cover	Poor	Small Sample	Frozen
1196969	HEN	7	579885	7030628	6/4/2011	Bluish Grey	Silt	Wet	Flat	20 B		White Spruce	Sphagnum Moss < 30cm	Poor	Small Sample	Frozen
1196970	HEN	7	579945	7030639	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Needle Cover	Good	Partially Frozen	
1196971	HEN	7	580012	7030610	6/4/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 C		Black Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1196972	HEN	7	580117	7030576	6/4/2011	Chocolate Brown	Sand	Dry	Flat	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1196973	HEN	7	580161	7030546	6/4/2011	Chocolate Brown	Silt	Wet	Flat	30 C		White Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	Mud
1196974	HEN	7	580203	7030518	6/4/2011	Chocolate Brown	Silt	Wet	Flat	20 C		Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1196975	HEN	7	579022	7031005	6/4/2011	Chocolate Brown	Sand	Dry	Flat	30 C		Poplar	Leaf Cover	Good	Rocky	
1196976	HEN	7	580250	7030488	6/4/2011	Chocolate Brown	Clay	Damp	Flat	20 C		Black Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1196977	HEN	7	580285	7030461	6/4/2011	Reddish Yellow	Sand	Dry	Flat	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1196978	HEN	7	580285	7030461	6/4/2011	Reddish Yellow	Sand	Dry	Flat	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1196979	HEN	7	580309	7030410	6/4/2011	Chocolate Brown	Sand	Dry	Flat	30 C		Black Spruce	Thin Moss Cover	Good	Coarse	
1196980	HEN	7	580345	7030370	6/4/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1196981	HEN	7	580378	7030334	6/4/2011	Reddish Yellow	Sand	Dry	Flat	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	
1196982	HEN	7	580424	7030312	6/4/2011	Grey	Clay	Damp	Flat	20 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	
1196983	HEN	7	580464	7030279	6/4/2011	Grey	Silt	Wet	Subtle Slope	20 C		White Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1196984	HEN	7	586794	7027651	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Birch Forest	Leaf Cover	Good	Sand	
1196985	HEN	7	586737	7027665	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	20 B		Birch Forest	Sphagnum Moss < 30cm	Good	Fine	Organic 10%
1196986	HEN	7	586834	7027621	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Good	Fine	
1196987	HEN	7	578644	7028199	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1196988	HEN	7	584122	7027793	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 B		Black Spruce	Reindeer Moss	Poor	Frozen	Quartz Chips
1196989	HEN	7	584245	7027632	6/6/2011	Chocolate Brown	Silt	Damp	Subtle Slope	50 B		Birch Forest	Sphagnum Moss < 30cm	Good	Partially Frozen	Coarse
1196990	HEN	7	584219	7027674	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 B		Black Spruce	Reindeer Moss	Good	Rocky	Partially Frozen
1196991	HEN	7	584193	7027717	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1196992	HEN	7	584153	7027752	6/6/2011	Chocolate Brown	Silt	Damp	Subtle Slope	40 B		Black Spruce	Reindeer Moss	Poor	Frozen	Rocky
1197037	HEN	7	576814	7028722	6/3/2011	Chocolate Brown	Clay	Dry	Subtle Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1197038	HEN	7	576771	7028673	6/3/2011	Bluish Grey	Sand	Damp	Flat	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Clay	Coarse
1197039	HEN	7	576742	7028643	6/3/2011	Reddish Yellow	Sand	Dry	Flat	70 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197040	HEN	7	576742	7028643	6/3/2011	Reddish Yellow	Sand	Dry	Flat	70 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197041	HEN	7	576679	7028570	6/3/2011	Dark Brown	Gravel	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1197042	HEN	7	576662	7028525	6/3/2011	Reddish Yellow	Sand	Dry	Flat	60 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197043	HEN	7	576619	7028501	6/3/2011	Chocolate Brown	Clay	Damp	Flat	20 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1197044	HEN	7	576571	7028486	6/3/2011	Chocolate Brown	Sand	Damp	Flat	60 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197045	HEN	7	576520	7028500	6/3/2011	Bluish Grey	Clay	Damp	Flat	40 B		White Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1197046	HEN	7	576480	7028468	6/3/2011	Light Brown	Sand	Dry	Flat	60 C		White Spruce	Needle Cover	Excellent	Coarse	
1197047	HEN	7	576480	7028468	6/3/2011	Light Brown	Sand	Dry	Flat	60 C		White Spruce	Needle Cover	Excellent	Coarse	
1197048	HEN	7	576434	7028446	6/3/2011	Greyish Green	Sand	Dry	Flat	70 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197049	HEN	7	576385	7028429	6/3/2011	Bluish Grey	Sand	Dry	Subtle Slope	50 C		White Spruce	Bare Soil	Excellent	Coarse	
1197050	HEN	7	576340	7028457	6/3/2011	Bluish Grey	Sand	Dry	Subtle Slope	60 C		Poplar	Bare Soil	Excellent	Coarse	
1197059	HEN	7	575702	7032689	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1197060	HEN	7	575691	7032641	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Alders	Leaf Cover	Good	Coarse	
1197061	HEN	7	575676	7032593	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 C		Black Spruce	Leaf Cover	Good	Coarse	
1197062	HEN	7	575657	7032546	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Rocky	
1197063	HEN	7	575649	7032497	6/3/2011	Reddish Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1197064	HEN	7	575612	7032464	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Leaf Cover	Good	Rocky	
1197065	HEN	7	575586	7032420	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Black Spruce	Thin Moss Cover	Good	Coarse	
1197066	HEN	7	575553	7032382	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Birch Forest	Leaf Cover	Good	Fine	
1197067	HEN	7	575519	7032345	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Good	Fine	
1197068	HEN	7	575497	7032298	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Willows	Leaf Cover	Good	Coarse	
1197069	HEN	7	575457	7032267	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Mud	
1197070	HEN	7	575421	7032228	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Fine	
1197071	HEN	7	575371	7032233	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	20 B		Black Spruce	Sphagnum Moss > 30cm	Poor	Coarse	
1197072	HEN	7	575322	7032248	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Leaf Cover	Good	Fine	
1197073	HEN	7	575282	7032218	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Black Spruce	Leaf Cover	Good	Fine	
1197074	HEN	7	575234	7032204	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197075	HEN	7	575185	7032187	6/3/2011	Dark Olivine Green	Sand	Dry	Subtle Slope	50 C		Birch Forest	Sphagnum Moss > 30cm	Good	Coarse	
1197076	HEN	7	575140	7032165	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Sphagnum Moss > 30cm	Good	Fine	
1197077	HEN	7	575095	7032142	6/3/2011	Chocolate Brown	Silt	Damp	Subtle Slope	60 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1197078	HEN	7	575050	7032120	6/3/2011	Grey	Silt	Dry	Pronounced Slope	50 C		White Spruce	Thin Moss Cover	Good	Sand	
1197079	HEN	7	574998	7032105	6/3/2011	Light Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1197080	HEN	7	574952	7032082	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Fine	
1197081	HEN	7	574901	7032080	6/3/2011	Chocolate Brown	Clay	Dry	Subtle Slope	70 C		Poplar	Bare Soil	Excellent	Coarse	
1197082	HEN	7	574851	7032068	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Poplar	Sphagnum Moss > 30cm	Good	Fine	
1197083	HEN	7	574801	7032059	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1197084	HEN	7	574751	7032061	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1197085	HEN	7	574700	7032056	6/3/2011	Dark Blue Black	Silt	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1197086	HEN	7	574649	7032052	6/3/2011	Reddish Brown	Sand	Damp	Subtle Slope	30 C		Black Spruce	Thin Moss Cover	Good	Coarse	
1197087	HEN	7	574600	7032044	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Alders	Leaf Cover	Good	Fine	
1197088	HEN	7	574558	7032016	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1197089	HEN	7	574509	7031996	6/3/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1197090	HEN	7	574462	7031976	6/3/2011	Dark Olivine Green	Sand	Damp	Pronounced Slope	40 C		Birch Forest	Sphagnum Moss > 30cm	Good	Coarse	
1197091	HEN	7	574419	7031952	6/3/2011	Dark Blue Black	Sand	Damp	Subtle Slope	50 C		Birch Forest	Sphagnum Moss > 30cm	Good	Fine	
1197092	HEN	7	574419	7031952	6/3/2011	Dark Blue Black	Sand	Damp	Subtle Slope	50 C		Birch Forest	Sphagnum Moss > 30cm	Good	Fine	
1197093	HEN	7	574365	7031928	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1197094	HEN	7	587114	7024809	6/8/2011	Reddish Yellow	Gravel	Dry	Flat	40 C		Poplar	Leaf Cover	Good	Rocky	Sand
1197095	HEN	7	574365	7031928	6/3/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1197133	HEN	7	575300	7031048	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1197134	HEN	7	575262	7031016	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1197135	HEN	7	574722	7030393	6/3/2011	Chocolate Brown	Sand	Damp	Flat	10 B		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	Partially Frozen
1197136	HEN	7	573368	7029909	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Sand	
1197137	HEN	7	573567	7029907	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Willows	Grass Cover	Excellent	Coarse	
1197138	HEN	7	573676	7029905	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	20 B		Poplar	Grass Cover	Good	Frozen	Small Sample
1197139	HEN	7	573785	7029934	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Willows	Leaf Cover	Excellent	Coarse	
1197140	HEN	7	573883	7029970	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Willows	Leaf Cover	Excellent	Coarse	
1197141	HEN	7	574126	7030068	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 B		Old Burn	Sphagnum Moss < 30cm	Good	Partially Frozen	
1197142	HEN	7	574227	7030101	6/3/2011	Chocolate Brown	Sand	Wet	Flat	50 B		Old Burn	Grass Cover	Good	Sand	Partially Frozen
1197143	HEN	7	574360	7030182	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Old Burn	Sphagnum Moss < 30cm	Excellent	Coarse	
1197144	HEN	7	574403	7030208	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Old Burn	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1197145	HEN	7	574453	7030242	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 C		Old Burn	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1197146	HEN	7	574592	7030311	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1197147	HEN	7	574637	7030337	6/3/2011	Chocolate Brown	Sand	Damp	Flat	40 B		Poplar	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1197148	HEN	7	574675	7030372	6/3/2011	Chocolate Brown	Sand	Damp	Flat	20 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	
1197149	HEN	7	574318	7031109	6/3/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1197150	HEN	7	574294	7031208	6/3/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1197169	HEN	7	575546	7029011	6/3/2011	Grey	Silt	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Sand	Fine
1197217	HEN	7	583464	7023507	6/7/2011	Reddish Orange	Gravel	Dry	Subtle Slope	60 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1197218	HEN	7	583514	7023491	6/7/2011	Reddish Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1197219	HEN	7	583570	7023485	6/7/2011	Light Brown	Gravel	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1197220	HEN	7	583616	7023464	6/7/2011	Light Brown	Gravel	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Fine	
1197221	HEN	7	583759	7023468	6/7/2011	Reddish Brown	Gravel	Damp	Subtle Slope	50 C		Poplar	Grass Cover	Excellent	Fine	
1197222	HEN	7	583712	7023450	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Poplar	Thin Moss Cover	Good	Fine	
1197223	HEN	7	586985	7027543	6/6/2011	Grey	Sand	Dry	Subtle Slope	110 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1197224	HEN	7	583667	7023473	6/7/2011	Light Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Fine	
1197225	HEN	7	586985	7027543	6/6/2011	Grey	Sand	Dry	Subtle Slope	110 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1197226	HEN	7	587003	7027495	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1197227	HEN	7	587031	7027453	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197228	HEN	7	587086	7027415	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Fine	
1197229	HEN	7	587109	7027371	6/6/2011	Chocolate Brown	Gravel	Dry	Flat	40 C		Pine	Sphagnum Moss < 30cm	Good	Fine	
1197230	HEN	7	587103	7027320	6/6/2011	Grey	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Fine	
1197231	HEN	7	587114	7027270	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Partially Frozen	
1197232	HEN	7	587129	7027222	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1197233	HEN	7	587165	7027184	6/6/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	70 C		Black Spruce	Thin Moss Cover	Excellent	Fine	
1197234	HEN	7	587197	7027141	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197235	HEN	7	587216	7027093	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 C		Black Spruce	Thin Moss Cover	Good	Wet Soil	
1197236	HEN	7	587198	7026945	6/6/2011	Reddish Orange	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1197237	HEN	7	587215	7026992	6/6/2011	Reddish Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Fine	
1197238	HEN	7	587221	7027041	6/6/2011	Dark Grey Black	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1197239	HEN	7	587192	7026894	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	
1197240	HEN	7	587220	7026851	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1197241	HEN	7	587242	7026803	6/6/2011	Bluish Grey	Gravel	Damp	Subtle Slope	40 B		Subalpine Fir	Leaf Cover	Good	Coarse	
1197242	HEN	7	587287	7026772	6/6/2011	Reddish Brown	Gravel	Damp	Subtle Slope	40 C		Poplar	Thin Moss Cover	Good	Rocky	
1197243	HEN	7	587327	7026739	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1197244	HEN	7	587369	7026706	6/6/2011	Reddish Yellow	Gravel	Damp	Subtle Slope	60 C		Black Spruce	Leaf Cover	Excellent	Fine	
1197245	HEN	7	587386	7026659	6/6/2011	Reddish Orange	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197246	HEN	7	587387	7026606	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197247	HEN	7	587395	7026557	6/6/2011	Reddish Brown	Gravel	Damp	Flat	50 C		Black Spruce	Thin Moss Cover	Excellent	Fine	
1197248	HEN	7	587423	7026510	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Leaf Cover	Excellent	Fine	
1197249	HEN	7	587472	7026497	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	
1197250	HEN	7	587474	7026446	6/6/2011	Reddish Brown	Gravel	Wet	Subtle Slope	40 C		Black Spruce	Thin Moss Cover	Good	Wet Soil	
1197251	HEN	7	573218	7031185	6/3/2011	Chocolate Brown	Sand	Damp	Flat	60 C		Pine	Thin Moss Cover	Excellent	Sand	
1197252	HEN	7	573182	7031139	6/3/2011	Dark Brown	Sand	Damp	Flat	40 C		Poplar	Grass Cover	Good	Sand	
1197253	HEN	7	573135	7031117	6/3/2011	Reddish Brown	Sand	Damp	Flat	50 C		Pine	Leaf Cover	Excellent	Sand	
1197254	HEN	7	573092	7031081	6/3/2011	Reddish Brown	Sand	Damp	Flat	80 C		Poplar	Thin Moss Cover	Excellent	Fine	
1197255	HEN	7	573061	7031029	6/3/2011	Grey	Silt	Dry	Flat	60 B		Poplar	Leaf Cover	Good	Fine	
1197256	HEN	7	573061	7031029	6/3/2011	Grey	Silt	Dry	Flat	60 B		Poplar	Leaf Cover	Good	Fine	
1197257	HEN	7	573018	7031008	6/3/2011	Dark Brown	Sand	Damp	Flat	40 B		Pine	Leaf Cover	Poor	Sand	
1197258	HEN	7	573018	7031008	6/3/2011	Dark Brown	Sand	Damp	Flat	40 B		Pine	Leaf Cover	Poor	Sand	
1197259	HEN	7	587632	7026167	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	Frozen
1197260	HEN	7	587616	7026100	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Rocky	Frozen
1197261	HEN	7	573371	7031290	6/3/2011	Reddish Brown	Sand	Damp	Flat	40 C		White Spruce	Grass Cover	Excellent	Sand	
1197262	HEN	7	573428	7031306	6/3/2011	Reddish Brown	Sand	Dry	Flat	50 C		Poplar	Thin Moss Cover	Excellent	Sand	
1197263	HEN	7	573483	7031322	6/3/2011	Reddish Orange	Sand	Dry	Flat	70 C		Pine	Leaf Cover	Excellent	Fine	
1197264	HEN	7	573540	7031333	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Poplar	Thin Moss Cover	Excellent	Sand	
1197265	HEN	7	573597	7031350	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		White Spruce	Thin Moss Cover	Good	Sand	
1197266	HEN	7	573647	7031367	6/3/2011	Dark Blue Black	Clay	Dry	Flat	50 C		Pine	Thin Moss Cover	Excellent	Clay	
1197267	HEN	7	573703	7031365	6/3/2011	Reddish Brown	Sand	Dry	Flat	60 C		White Spruce	Thin Moss Cover	Excellent	Sand	
1197268	HEN	7	573755	7031358	6/3/2011	Reddish Brown	Sand	Damp	Flat	70 C		White Spruce	Thin Moss Cover	Excellent	Sand	
1197269	HEN	7	573803	7031376	6/3/2011	Chocolate Brown	Clay	Dry	Flat	40 B		White Spruce	Thin Moss Cover	Poor	Clay	
1197270	HEN	7	573846	7031415	6/3/2011	Reddish Brown	Sand	Damp	Flat	70 C		White Spruce	Thin Moss Cover	Excellent	Fine	
1197271	HEN	7	573921	7031477	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Thin Moss Cover	Excellent	Sand	
1197272	HEN	7	573900	7031430	6/3/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		Pine	Thin Moss Cover	Excellent	Sand	
1197273	HEN	7	573964	7031516	6/3/2011	Light Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Excellent	Sand	
1197274	HEN	7	574044	7031590	6/3/2011	Dark Brown	Sand	Damp	Subtle Slope	50 C		Pine	Thin Moss Cover	Excellent	Sand	
1197275	HEN	7	574084	7031623	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		White Spruce	Thin Moss Cover	Excellent	Sand	
1197276	HEN	7	574119	7031667	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Good	Sand	
1197277	HEN	7	574142	7031721	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Thin Moss Cover	Excellent	Sand	
1197278	HEN	7	574156	7031772	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Thin Moss Cover	Excellent	Sand	
1197279	HEN	7	574199	7031804	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Burnt Moss	Excellent	Sand	
1197280	HEN	7	574230	7031850	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Burnt Moss	Excellent	Sand	
1197281	HEN	7	574276	7031873	6/3/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		White Spruce	Burnt Moss	Excellent	Coarse	
1197282	HEN	7	574323	7031901	6/3/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Poplar	Thin Moss Cover	Good	Sand	
1197283	HEN	7	573264	7031275	6/3/2011	Reddish Orange	Sand	Damp	Flat	40 C		Poplar	Grass Cover	Good	Sand	



Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1197301	HEN	7	581379	7026882	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	30 C		Poplar	Leaf Cover	Good	Rocky	Quartz Chips
1197302	HEN	7	581079	7026838	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Sand	
1197303	HEN	7	581125	7026823	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1197304	HEN	7	581163	7026796	6/6/2011	Dark Brown	Sand	Dry	Steep	50 C		White Spruce	Needle Cover	Good	Rocky	Organic 10%
1197305	HEN	7	581210	7026804	6/6/2011	Dark Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Needle Cover	Excellent		Rocky
1197306	HEN	7	581261	7026791	6/6/2011	Grey	Silt	Dry	Steep	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1197307	HEN	7	581355	7026792	6/6/2011	Dark Brown	Sand	Dry	Flat	30 C		Poplar	Leaf Cover	Good	Rocky	
1197308	HEN	7	581489	7027568	6/4/2011	Chocolate Brown	Sand	Damp	Steep	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1197309	HEN	7	581522	7027603	6/4/2011	Chocolate Brown	Sand	Dry	Steep	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1197310	HEN	7	581579	7027683	6/4/2011	Chocolate Brown	Clay	Dry	Pronounced Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197311	HEN	7	581558	7027638	6/4/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Leaf Cover	Good	Fine	
1197312	HEN	7	581595	7027735	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Black Spruce	Needle Cover	Good	Rocky	
1197313	HEN	7	581626	7027787	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Excellent	Rocky	
1197314	HEN	7	581636	7027836	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Rocky	
1197315	HEN	7	581616	7027882	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Needle Cover	Excellent	Rocky	
1197316	HEN	7	581658	7027910	6/4/2011	Chocolate Brown	Sand	Wet	Steep	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1197317	HEN	7	581643	7027962	6/4/2011	Dark Grey Black	Sand	Damp	Steep	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1197318	HEN	7	581669	7028001	6/4/2011	Dark Brown	Sand	Dry	Steep	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1197319	HEN	7	581656	7028051	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1197320	HEN	7	581626	7028091	6/4/2011	Bluish Grey	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1197321	HEN	7	581616	7028143	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1197322	HEN	7	581587	7028185	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1197323	HEN	7	581545	7028216	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1197324	HEN	7	581499	7028243	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1197325	HEN	7	581441	7028274	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197330	HEN	7	586447	7020774	6/8/2011	Chocolate Brown	Clay	Damp	Flat	40 C		Birch Forest	Leaf Cover	Excellent	Rocky	
1197331	HEN	7	588102	7022636	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Good	Sand	
1197332	HEN	7	588050	7022644	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 B		Black Spruce	Leaf Cover	Good	Sand	
1197333	HEN	7	586870	7022296	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197334	HEN	7	586764	7022182	6/8/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197335	HEN	7	580812	7026724	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Black Spruce	Bare Soil	Excellent	Rocky	
1197336	HEN	7	580053	7026186	6/6/2011	Chocolate Brown	Sand	Dry	Steep	30 C		Poplar	Leaf Cover	Good	Rocky	
1197337	HEN	7	580046	7026214	6/6/2011	Chocolate Brown	Sand	Dry	Steep	40 C		No Tree Cover	Leaf Cover	Good	Rocky	
1197338	HEN	7	580054	7026290	6/6/2011	Chocolate Brown	Sand	Dry	Steep	40 C		No Tree Cover	Grass Cover	Excellent	Rocky	
1197339	HEN	7	580102	7026323	6/6/2011	Chocolate Brown	Silt	Dry	Steep	30 C		No Tree Cover	Grass Cover	Good	Rocky	Small Sample
1197340	HEN	7	580142	7026332	6/6/2011	Dark Brown	Silt	Dry	Steep	40 C		Poplar	Grass Cover	Good		Rocky
1197341	HEN	7	580194	7026358	6/6/2011	Chocolate Brown	Sand	Dry	Steep	50 C		Subalpine Fir	Grass Cover	Good	Fine	
1197342	HEN	7	580235	7026382	6/6/2011	Chocolate Brown	Sand	Damp	Steep	30 C		Poplar	Grass Cover	Good	Rocky	
1197343	HEN	7	580267	7026420	6/6/2011	Dark Blue Black	Sand	Dry	Steep	50 C		Poplar	Leaf Cover	Excellent	Rocky	
1197344	HEN	7	580318	7026459	6/6/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Grass Cover	Excellent	Coarse	
1197345	HEN	7	580365	7026501	6/6/2011	Chocolate Brown	Sand	Dry	Steep	30 C		Poplar	Grass Cover	Good	Rocky	
1197346	HEN	7	580422	7026497	6/6/2011	Dark Grey Black	Silt	Wet	Subtle Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	Organic 50%
1197347	HEN	7	580468	7026471	6/6/2011	Bluish Grey	Sand	Dry	Subtle Slope	30 C		White Spruce	Needle Cover	Good	Rocky	Fine
1197348	HEN	7	580508	7026516	6/6/2011	Dark Grey Black	Silt	Damp	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1197349	HEN	7	580536	7026553	6/6/2011	Bluish Grey	Silt	Dry	Subtle Slope	50 C		White Spruce	Needle Cover	Good	Rocky	
1197350	HEN	7	580578	7026581	6/6/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C		White Spruce	Grass Cover	Excellent	Rocky	Sand
1197501	HEN	7	576297	7028484	6/3/2011	Light Brown	Sand	Dry	Pronounced Slope	80 C		Poplar	Bare Soil	Excellent	Coarse	
1197502	HEN	7	576269	7028442	6/3/2011	Dark Olivine Green	Sand	Dry	Pronounced Slope	70 C		White Spruce	Bare Soil	Excellent	Coarse	
1197503	HEN	7	576222	7028441	6/3/2011	Dark Olivine Green	Sand	Dry	Flat	60 C		White Spruce	Needle Cover	Excellent	Coarse	
1197504	HEN	7	576168	7028435	6/3/2011	Bluish Grey	Gravel	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1197505	HEN	7	576125	7028439	6/3/2011	Dark Olivine Green	Gravel	Dry	Flat	40 C		Poplar	Leaf Cover	Excellent	Coarse	
1197506	HEN	7	576071	7028471	6/3/2011	Reddish Yellow	Sand	Dry	Flat	70 B		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1197507	HEN	7	576028	7028449	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197508	HEN	7	575979	7028435	6/3/2011	Chocolate Brown	Clay	Damp	Flat	30 B		White Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1197509	HEN	7	575919	7028413	6/3/2011	Chocolate Brown	Clay	Damp	Flat	40 B		White Spruce	Needle Cover	Poor	Frozen	
1197510	HEN	7	575878	7028416	6/3/2011	Reddish Yellow	Sand	Dry	Flat	50 B		White Spruce	Needle Cover	Poor	Fine	
1197511	HEN	7	575827	7028399	6/3/2011	Chocolate Brown	Sand	Dry	Flat	60 C		White Spruce	Needle Cover	Excellent	Coarse	
1197512	HEN	7	575767	7028436	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Needle Cover	Good	Coarse	
1197513	HEN	7	575723	7028390	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197514	HEN	7	575676	7028397	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1197515	HEN	7	575623	7028397	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 B		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1197516	HEN	7	575533	7028336	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Grass Cover	Good	Coarse	
1197517	HEN	7	575479	7028337	6/3/2011	Light Grey	Sand	Dry	Pronounced Slope	70 B		White Spruce	Bare Soil	Poor	Fine	
1197518	HEN	7	575434	7028331	6/3/2011	Light Brown	Sand	Dry	Pronounced Slope	90 B		White Spruce	Bare Soil	Good	Fine	
1197519	HEN	7	575378	7028309	6/3/2011	Light Brown	Sand	Dry	Pronounced Slope	90 B		White Spruce	Bare Soil	Poor	Fine	
1197520	HEN	7	575332	7028315	6/3/2011	Bluish Grey	Sand	Dry	Subtle Slope	90 B		White Spruce	Thin Moss Cover	Good	Fine	
1197521	HEN	7	579981	7027733	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Needle Cover	Poor	Fine	
1197522	HEN	7	579954	7027687	6/4/2011	Chocolate Brown	Clay	Dry	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1197523	HEN	7	579918	7027647	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	
1197524	HEN	7	579893	7027603	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1197525	HEN	7	579856	7027565	6/4/2011	Dark Brown	Sand	Dry	Subtle Slope	30 B		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1197526	HEN	7	579806	7027532	6/4/2011	Dark Brown	Gravel	Dry	Subtle Slope	20 B		Poplar	Bare Soil	Good	Coarse	
1197527	HEN	7	579781	7027486	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1197528	HEN	7	579738	7027425	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		White Spruce	Thin Moss Cover	Excellent	Coarse	
1197529	HEN	7	579720	7027405	6/4/2011	Bluish Grey	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197530	HEN	7	579700	7027358	6/4/2011	Bluish Grey	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1197531	HEN	7	579679	7027309	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		White Spruce	Leaf Cover	Good	Fine	
1197532	HEN	7	579670	7027262	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		Poplar	Sphagnum Moss < 30cm	Excellent	Coarse	
1197533	HEN	7	579647	7027217	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		Dwarf Birch	Sphagnum Moss < 30cm	Good	Coarse	Frozen
1197534	HEN	7	579639	7027166	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1197535	HEN	7	579624	7027120	6/4/2011	Dark Brown	Gravel	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197536	HEN	7	579623	7027059	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197537	HEN	7	579605	7027020	6/4/2011	Dark Brown	Gravel	Dry	Flat	30 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197538	HEN	7	579582	7026973	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		White Spruce	Bare Soil	Excellent	Coarse	
1197539	HEN	7	579595	7026915	6/4/2011	Greyish Green	Sand	Dry	Pronounced Slope	70 C		Poplar	Bare Soil	Excellent	Fine	
1197540	HEN	7	579583	7026861	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197541	HEN	7	579575	7026815	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Poplar	Bare Soil	Good	Coarse	
1197542	HEN	7	579582	7026753	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 B		Poplar	Thin Moss Cover	Poor	Fine	
1197543	HEN	7	579562	7026711	6/4/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Excellent	Coarse	Quartz Chips
1197544	HEN	7	579545	7026661	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 B		Poplar	Sphagnum Moss < 30cm	Good	Clay	
1197545	HEN	7	579564	7026588	6/4/2011	Chocolate Brown	Sand	Dry	Flat	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197546	HEN	7	579544	7026540	6/4/2011	Chocolate Brown	Gravel	Dry	Flat	40 C		Poplar	Bare Soil	Good	Fine	
1197547	HEN	7	579520	7026493	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		White Spruce	Needle Cover	Excellent	Coarse	
1197548	HEN	7	579479	7026464	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1197549	HEN	7	579443	7026430	6/4/2011	Light Grey	Sand	Dry	Subtle Slope	100 C		Poplar	Needle Cover	Good	Fine	
1197550	HEN	7	579738	7027425	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		White Spruce	Thin Moss Cover	Excellent	Coarse	
1197552	HEN	7	583459	7021919	6/8/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Rocky	
1197553	HEN	7	583492	7021948	6/8/2011	Reddish Yellow	Silt	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Rocky	
1197554	HEN	7	578777	7030528	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 B		Birch Forest	Leaf Cover	Good	Rocky	Coarse
1197555	HEN	7	578719	7030471	6/4/2011	Reddish Orange	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	
1197556	HEN	7	578835	7030603	6/4/2011	Bluish Grey	Sand	Dry	Flat	30 B		Birch Forest	Leaf Cover	Good	Coarse	
1197557	HEN	7	578866	7030662	6/4/2011	Reddish Yellow	Sand	Wet	Flat	30 B		Birch Forest	Leaf Cover	Good	Coarse	
1197558	HEN	7	578918	7030709	6/4/2011	Chocolate Brown	Sand	Damp	Flat	30 B		Birch Forest	Leaf Cover	Good	Coarse	
1197559	HEN	7	578919	7030820	6/4/2011	Dark Olivine Green	Gravel	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1197560	HEN	7	578975	7030932	6/4/2011	Bluish Grey	Gravel	Damp	Subtle Slope	20 C		Dwarf Birch	Leaf Cover	Good	Coarse	Organic 25%
1197561	HEN	7	578959	7030983	6/4/2011	Bluish Grey	Gravel	Damp	Subtle Slope	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	
1197562	HEN	7	578938	7031043	6/4/2011	Dark Olivine Green	Sand	Damp	Subtle Slope	20 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1197563	HEN	7	583804	7022063	6/8/2011	Chocolate Brown	Silt	Dry	Steep	40 C		Poplar	Leaf Cover	Good	Rocky	
1197564	HEN	7	583842	7022097	6/8/2011	Chocolate Brown	Sand	Dry	Steep	30 C		Subalpine Fir	Grass Cover	Good	Fine	
1197565	HEN	7	583764	7022032	6/8/2011	Chocolate Brown	Sand	Dry	Steep	40 C		No Tree Cover	Leaf Cover	Good	Rocky	
1197566	HEN	7	583714	7022009	6/8/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	30 C		Poplar	Leaf Cover	Good	Rocky	
1197567	HEN	7	583654	7022005	6/8/2011	Chocolate Brown	Silt	Dry	Steep	40 C		Poplar	Leaf Cover	Good	Rocky	
1197568	HEN	7	578940	7030879	6/4/2011	Bluish Grey	Gravel	Damp	Subtle Slope	30 C		Birch Forest	Leaf Cover	Good	Coarse	Small Sample
1197569	HEN	7	578909	7030759	6/4/2011	Reddish Brown	Sand	Damp	Flat	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197570	HEN	7	585768	7027861	6/7/2011	Grey	Gravel	Damp	Subtle Slope	60 C		White Spruce	Leaf Cover	Good	Fine	
1197571	HEN	7	583125	7021593	6/8/2011	Chocolate Brown	Silt	Dry	Steep	20 C		Poplar	Leaf Cover	Good	Rocky	
1197572	HEN	7	583554	7021963	6/8/2011	Chocolate Brown	Silt	Dry	Steep	30 C		Poplar	Leaf Cover	Good	Rocky	
1197573	HEN	7	586140	7027376	6/7/2011	Dark Grey Black	Sand	Dry	Subtle Slope	30 C		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1197574	HEN	7	585750	7027906	6/7/2011	Dark Grey Black	Clay	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Poor	Frozen	
1197575	HEN	7	583926	7022165	6/8/2011	Chocolate Brown	Silt	Damp	Steep	50 C		Poplar	Grass Cover	Good	Rocky	
1197576	HEN	7	583889	7022124	6/8/2011	Chocolate Brown	Sand	Dry	Steep	40 C		Poplar	Grass Cover	Good	Rocky	
1197577	HEN	7	583385	7021857	6/8/2011	Grey	Silt	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Good	Rocky	
1197578	HEN	7	578555	7030194	6/4/2011	Reddish Brown	Sand	Dry	Flat	50 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	Quartz Chips
1197579	HEN	7	578549	7030133	6/4/2011	Chocolate Brown	Sand	Dry	Flat	30 B		Dwarf Birch	Thin Moss Cover	Good	Coarse	
1197580	HEN	7	578550	7030016	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197581	HEN	7	583968	7022205	6/8/2011	Chocolate Brown	Sand	Dry	Steep	30 C		Poplar	Grass Cover	Good	Fine	
1197582	HEN	7	585692	7027986	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Needle Cover	Good	Fine	
1197583	HEN	7	578947	7029003	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Coarse	
1197584	HEN	7	578937	7028953	6/4/2011	Dark Brown	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Fine	
1197585	HEN	7	578936	7028903	6/4/2011	Chocolate Brown	Sand	Dry	Steep	90 C		Poplar	Leaf Cover	Excellent	Fine	
1197586	HEN	7	578948	7028853	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1197587	HEN	7	578945	7028802	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Fine	
1197588	HEN	7	578934	7028754	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Fine	Quartz Chips
1197589	HEN	7	578905	7028710	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Bare Soil	Excellent	Fine	
1197590	HEN	7	578913	7028660	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Poplar	Bare Soil	Excellent	Coarse	
1197591	HEN	7	578951	7028618	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Coarse	
1197592	HEN	7	578964	7028567	6/4/2011	Chocolate Brown	Sand	Dry	Steep	50 C		Poplar	Bare Soil	Excellent	Rocky	
1197593	HEN	7	578927	7028519	6/4/2011	Chocolate Brown	Sand	Damp	Steep	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197594	HEN	7	578892	7028483	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	70 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197595	HEN	7	578846	7028462	6/4/2011	Dark Brown	Clay	Damp	Subtle Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1197596	HEN	7	578804	7028420	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197597	HEN	7	578772	7028378	6/4/2011	Reddish Brown	Sand	Damp	Pronounced Slope	60 C		Poplar	Leaf Cover	Good	Coarse	Quartz Chips

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1197598	HEN	7	578735	7028333	6/4/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	70 C		Poplar	Leaf Cover	Good	Clay	
1197599	HEN	7	578698	7028292	6/4/2011	Reddish Brown	Sand	Damp	Pronounced Slope	70 C		White Spruce	Leaf Cover	Excellent	Coarse	
1197600	HEN	7	578673	7028247	6/4/2011	Reddish Brown	Sand	Damp	Flat	60 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197601	HEN	7	578094	7033154	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197602	HEN	7	578133	7033121	6/4/2011	Dark Blue Black	Sand	Dry	Subtle Slope	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197603	HEN	7	578173	7033092	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197604	HEN	7	578258	7032959	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197605	HEN	7	578279	7032911	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197606	HEN	7	578319	7032807	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	20 C		Birch Forest	Leaf Cover	Good	Coarse	Rocky
1197607	HEN	7	578380	7032605	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197608	HEN	7	578427	7032446	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197609	HEN	7	578436	7032394	6/4/2011	Bluish Grey	Clay	Damp	Subtle Slope	30 B		Birch Forest	Thin Moss Cover	Good	Rocky	Organic 10%
1197610	HEN	7	578475	7032238	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Birch Forest	Thin Moss Cover	Good	Fine	Organic 10%
1197611	HEN	7	578488	7032186	6/4/2011	Reddish Brown	Sand	Damp	Subtle Slope	60 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197612	HEN	7	578492	7032134	6/4/2011	Reddish Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197613	HEN	7	578493	7032078	6/4/2011	Light Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197614	HEN	7	578499	7032025	6/4/2011	Reddish Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197615	HEN	7	578486	7031867	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 B		Birch Forest	Thin Moss Cover	Excellent	Fine	Organic 10%
1197616	HEN	7	578475	7031764	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197617	HEN	7	578466	7031679	6/4/2011	Reddish Brown	Sand	Dry	Flat	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197618	HEN	7	578466	7031679	6/4/2011	Reddish Brown	Sand	Dry	Flat	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197619	HEN	7	578469	7031710	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197620	HEN	7	584981	7027202	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Birch Forest	Leaf Cover	Good	Fine	Rocky
1197621	HEN	7	578478	7031816	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	Rocky
1197622	HEN	7	578495	7031916	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197623	HEN	7	578499	7031970	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Birch Forest	Sphagnum Moss > 30cm	Good	Coarse	Rocky
1197624	HEN	7	578459	7032290	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197625	HEN	7	578454	7032345	6/4/2011	Reddish Brown	Sand	Dry	Flat	40 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197626	HEN	7	578411	7032500	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197627	HEN	7	578399	7032552	6/4/2011	Chocolate Brown	Silt	Damp	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Good	Coarse	Organic 10%
1197628	HEN	7	578366	7032656	6/4/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Rocky
1197629	HEN	7	578352	7032706	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1197630	HEN	7	578335	7032756	6/4/2011	Light Brown	Silt	Dry	Subtle Slope	70 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	Organic 10%
1197631	HEN	7	578304	7032861	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197632	HEN	7	578221	7032995	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197633	HEN	7	578202	7033044	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1197634	HEN	7	578061	7033193	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 B		Dwarf Birch	Leaf Cover	Good	Coarse	Organic 10%
1197635	HEN	7	578018	7033220	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Dwarf Birch	Thin Moss Cover	Good	Coarse	Organic 10%
1197636	HEN	7	578828	7029674	6/4/2011	Reddish Brown	Sand	Dry	Pronounced Slope	50 C		White Spruce	Needle Cover	Excellent	Coarse	
1197637	HEN	7	578837	7029619	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		White Spruce	Leaf Cover	Excellent	Rocky	
1197638	HEN	7	578843	7029569	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Leaf Cover	Excellent	Coarse	
1197639	HEN	7	578865	7029515	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Fine	
1197640	HEN	7	578884	7029470	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	60 C		White Spruce	Leaf Cover	Good	Fine	
1197641	HEN	7	578897	7029421	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Fine	
1197642	HEN	7	578914	7029370	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Coarse	Rocky
1197643	HEN	7	578914	7029316	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Rocky	
1197644	HEN	7	578917	7029265	6/4/2011	Light Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Quartz Chips	Coarse
1197645	HEN	7	578918	7029217	6/4/2011	Chocolate Brown	Sand	Dry	Flat	70 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197646	HEN	7	578918	7029217	6/4/2011	Chocolate Brown	Sand	Dry	Flat	70 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1197647	HEN	7	578944	7029164	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1197648	HEN	7	578944	7029164	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1197649	HEN	7	578936	7029109	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	20 C		Poplar	Leaf Cover	Excellent	Rocky	
1197650	HEN	7	578947	7029052	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	80 C		Poplar	Leaf Cover	Excellent	Fine	Fine
1197655	HEN	7	584768	7020425	6/8/2011	Reddish Yellow	Silt	Dry	Pronounced Slope	20 B		Poplar	Leaf Cover	Good	Fine	
1197658	HEN	7	584756	7020469	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Rocky	
1197659	HEN	7	584733	7020523	6/8/2011	Light Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Good	Sand	
1197660	HEN	7	584706	7020572	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 B		Poplar	Leaf Cover	Good	Sand	
1197661	HEN	7	584711	7020625	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Sand	
1197662	HEN	7	584726	7020676	6/8/2011	Light Brown	Silt	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Good	Fine	
1197663	HEN	7	584713	7020728	6/8/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Fine	
1197664	HEN	7	584692	7020783	6/8/2011	Light Brown	Sand	Damp	Pronounced Slope	30 C		Poplar	Grass Cover	Good	Fine	
1197665	HEN	7	584611	7021226	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Black Spruce	Needle Cover	Poor	Small Sample	
1197666	HEN	7	584627	7021169	6/8/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	20 B		Black Spruce	Grass Cover	Good	Sand	
1197667	HEN	7	584622	7021111	6/8/2011	Reddish Yellow	Sand	Dry	Subtle Slope	40 C		Poplar	Grass Cover	Good	Small Sample	
1197668	HEN	7	584627	7021061	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Poplar	Grass Cover	Good	Organic 10%	
1197669	HEN	7	584633	7021017	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Poplar	Grass Cover	Good	Fine	
1197670	HEN	7	584634	7020972	6/8/2011	Reddish Yellow	Clay	Damp	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Fine	
1197671	HEN	7	584634	7020972	6/8/2011	Reddish Yellow	Clay	Damp	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Fine	
1197672	HEN	7	584635	7020936	6/8/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1197673	HEN	7	584656	7020881	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Sand	
1197674	HEN	7	584670	7020829	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 B		Poplar	Grass Cover	Good	Coarse	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1197675	HEN	7	584585	7021362	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	10 B		Poplar	Grass Cover	Poor	Small Sample	
1197676	HEN	7	584571	7021311	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Sand	
1197677	HEN	7	584602	7021272	6/8/2011	Light Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Small Sample	
1197678	HEN	7	584578	7021407	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Poplar	Grass Cover	Good	Sand	Organic 10%
1197679	HEN	7	584559	7021456	6/8/2011	Chocolate Brown	Sand	Wet	Pronounced Slope	40 C		Poplar	Grass Cover	Good	Sand	
1197680	HEN	7	584561	7021517	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 B		Poplar	Grass Cover	Good	Coarse	
1197681	HEN	7	584561	7021559	6/8/2011	Light Brown	Sand	Dry	Subtle Slope	90 C		Poplar	Grass Cover	Excellent	Coarse	Quartz Chips
1197682	HEN	7	584542	7021615	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Leaf Cover	Excellent	Sand	
1197683	HEN	7	584524	7021658	6/8/2011	Reddish Yellow	Sand	Dry	Subtle Slope	40 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1197684	HEN	7	584520	7021711	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	20 B		Black Spruce	Leaf Cover	Good	Rocky	
1197685	HEN	7	584516	7021757	6/8/2011	Chocolate Brown	Sand	Damp	Flat	30 B		Black Spruce	Thin Moss Cover	Good	Mud	
1197701	HEN	7	586229	7027226	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		White Spruce	Needle Cover	Good	Fine	
1197702	HEN	7	586161	7027313	6/7/2011	Chocolate Brown	Silt	Dry	Subtle Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1197703	HEN	7	586095	7027407	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Fine	
1197704	HEN	7	583341	7021825	6/8/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Good	Rocky	
1197714	HEN	7	585795	7027817	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Good	Sand	
1197715	HEN	7	585824	7027770	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Leaf Cover	Good	Sand	
1197716	HEN	7	585880	7027674	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Sand	
1197717	HEN	7	585917	7027621	6/7/2011	Dark Grey Black	Sand	Dry	Subtle Slope	50 C		White Spruce	Needle Cover	Good	Sand	
1197718	HEN	7	585845	7027725	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Leaf Cover	Good	Coarse	
1197719	HEN	7	585953	7027572	6/7/2011	Light Brown	Sand	Dry	Subtle Slope	60 C		White Spruce	Needle Cover	Good	Coarse	
1197720	HEN	7	585995	7027535	6/7/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 C		White Spruce	Needle Cover	Good	Quartz Chips	
1197721	HEN	7	585723	7027953	6/7/2011	Grey	Clay	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss < 30cm	Good	Frozen	
1197722	HEN	7	586022	7027489	6/7/2011	Chocolate Brown	Silt	Dry	Subtle Slope	60 C		White Spruce	Leaf Cover	Good	Fine	
1197723	HEN	7	585677	7028038	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	70 C		White Spruce	Needle Cover	Excellent	Sand	
1197724	HEN	7	585677	7028038	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	70 C		White Spruce	Needle Cover	Excellent	Sand	
1197725	HEN	7	585604	7028168	6/7/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Alders	Leaf Cover	Good	Fine	
1197726	HEN	7	585612	7028117	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C		White Spruce	Leaf Cover	Good	Quartz Chips	
1197740	HEN	7	584924	7027910	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Black Spruce	Reindeer Moss	Good	Partially Frozen	Coarse
1197741	HEN	7	584929	7027959	6/7/2011	Reddish Brown	Sand	Dry	Subtle Slope	80 C		Black Spruce	Reindeer Moss	Excellent	Fine	
1197742	HEN	7	584936	7028013	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 B		Black Spruce	Reindeer Moss	Poor	Mud	
1197743	HEN	7	584951	7028065	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B		Black Spruce	Reindeer Moss	Good	Mud	
1197744	HEN	7	584960	7028118	6/7/2011	Reddish Brown	Sand	Dry	Flat	60 C		White Spruce	Thin Moss Cover	Excellent	Coarse	Rocky
1197745	HEN	7	584989	7028167	6/7/2011	Reddish Brown	Silt	Dry	Flat	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	Quartz Chips
1197746	HEN	7	585015	7028212	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Reindeer Moss	Excellent	Coarse	
1197747	HEN	7	585018	7028263	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1197748	HEN	7	585032	7028311	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Reindeer Moss	Excellent	Coarse	Rocky
1197749	HEN	7	585042	7028361	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Reindeer Moss	Excellent	Coarse	
1197750	HEN	7	585053	7028411	6/7/2011	Dark Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Reindeer Moss	Good	Coarse	
1197751	HEN	7	580762	7027297	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197753	HEN	7	580811	7027277	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C		Poplar	Grass Cover	Good	Coarse	
1197757	HEN	7	582078	7026685	6/6/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	
1197758	HEN	7	581253	7026720	6/4/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1197759	HEN	7	581232	7026823	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C		No Tree Cover	Bare Soil	Good	Rocky	
1197760	HEN	7	581106	7027050	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	
1197761	HEN	7	581069	7027083	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	60 C		Poplar	Grass Cover	Excellent	Coarse	
1197762	HEN	7	580991	7027153	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C		Poplar	Grass Cover	Good	Coarse	
1197763	HEN	7	580948	7027187	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C		Poplar	Grass Cover	Excellent	Coarse	
1197764	HEN	7	580907	7027226	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Good	Rocky	
1197765	HEN	7	580856	7027244	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Excellent	Fine	
1197766	HEN	7	581207	7026866	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C		No Tree Cover	Bare Soil	Good	Rocky	
1197767	HEN	7	582487	7026590	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1197768	HEN	7	581251	7026770	6/4/2011	Grey	Sand	Damp	Flat	20 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1197769	HEN	7	581178	7026914	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	30 C		Poplar	Bare Soil	Excellent	Coarse	
1197770	HEN	7	581156	7026960	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Grass Cover	Good	Coarse	
1197771	HEN	7	581135	7027005	6/4/2011	Reddish Yellow	Gravel	Dry	Subtle Slope	40 C		Poplar	Grass Cover	Excellent	Fine	
1197772	HEN	7	581069	7027083	6/4/2011	Reddish Yellow	Sand	Dry	Subtle Slope	60 C		Poplar	Grass Cover	Excellent	Coarse	
1197773	HEN	7	581032	7027119	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Grass Cover	Good	Coarse	
1197774	HEN	7	580268	7027459	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197775	HEN	7	580413	7027402	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197776	HEN	7	580363	7027414	6/4/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197777	HEN	7	585855	7028274	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Fine	
1197778	HEN	7	585819	7028301	6/6/2011	Reddish Orange	Silt	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1197779	HEN	7	585819	7028301	6/6/2011	Reddish Orange	Silt	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1197780	HEN	7	585791	7028342	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1197781	HEN	7	585774	7028392	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	20 C		Birch Forest	Sphagnum Moss < 30cm	Poor	Fine	Partially Frozen
1197782	HEN	7	585738	7028428	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Needle Cover	Good	Coarse	
1197783	HEN	7	585716	7028475	6/6/2011	Grey	Clay	Wet	Subtle Slope	20 B		White Spruce	Sphagnum Moss > 30cm	Poor	Frozen	Small Sample
1197784	HEN	7	585649	7028555	6/6/2011	Grey	Clay	Wet	Subtle Slope	10 B		White Spruce	Sphagnum Moss > 30cm	Poor	Frozen	Organic 10%
1197785	HEN	7	586440	7026941	6/7/2011	Grey	Clay	Damp	Subtle Slope	30 C		Birch Forest	Needle Cover	Good	Partially Frozen	
1197787	HEN	7	586369	7027064	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	20 C		Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1197788	HEN	7	586366	7027116	6/7/2011	Dark Grey Black	Sand	Damp	Subtle Slope	30 B		Alders	Grass Cover	Good	Small Sample	Frozen
1197789	HEN	7	586190	7027275	6/7/2011	Chocolate Brown	Sand	Dry	Subtle Slope	20 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1197790	HEN	7	586298	7027199	6/7/2011	Dark Grey Black	Gravel	Dry	Subtle Slope	40 C		White Spruce	Leaf Cover	Good	Fine	
1197791	HEN	7	586327	7027156	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 C		White Spruce	Needle Cover	Good	Partially Frozen	
1197792	HEN	7	584092	7027833	6/6/2011	Chocolate Brown	Silt	Dry	Subtle Slope	30 B		Black Spruce	Reindeer Moss	Poor	Frozen	Organic 10%
1197793	HEN	7	585891	7028217	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Fine	
1197794	HEN	7	585928	7028191	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Fine	
1197795	HEN	7	585975	7028147	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Leaf Cover	Good	Coarse	
1197796	HEN	7	586021	7028116	6/6/2011	Dark Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Needle Cover	Good	Fine	Quartz Chips
1197797	HEN	7	586053	7028074	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Poplar	Reindeer Moss	Good	Coarse	
1197798	HEN	7	586091	7028032	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Pine	Sphagnum Moss < 30cm	Good	Sand	Sand
1197799	HEN	7	586099	7027977	6/6/2011	Reddish Yellow	Silt	Dry	Subtle Slope	50 C		White Spruce	Needle Cover	Good	Fine	
1197800	HEN	7	586142	7027948	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Good	Fine	
1197803	HEN	7	578299	7027400	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1197804	HEN	7	578241	7027389	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	70 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Sand	
1197805	HEN	7	578241	7027389	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	70 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Sand	
1197806	HEN	7	578194	7027388	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Rocky	
1197807	HEN	7	578142	7027377	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Needle Cover	Good	Rocky	
1197808	HEN	7	578088	7027373	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Sphagnum Moss > 30cm	Good	Sand	
1197809	HEN	7	578036	7027336	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		No Tree Cover	Leaf Cover	Good	Sand	Rocky
1197810	HEN	7	577983	7027291	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Rocky	
1197811	HEN	7	577931	7027256	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Bare Soil	Good	Sand	
1197812	HEN	7	577884	7027209	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Thin Moss Cover	Good	Sand	
1197813	HEN	7	577750	7027042	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Sphagnum Moss > 30cm	Good	Sand	
1197814	HEN	7	577834	7027134	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1197815	HEN	7	577790	7027080	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Poor	Rocky	
1197816	HEN	7	578335	7027363	6/4/2011	Reddish Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1197817	HEN	7	578390	7027357	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Poplar	Thin Moss Cover	Poor	Rocky	
1197819	HEN	7	578435	7027357	6/4/2011	Chocolate Brown	Sand	Damp	Flat	40 B		Pine	Leaf Cover	Poor	Rocky	
1197820	HEN	7	578494	7027362	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	40 B		Poplar	Sphagnum Moss > 30cm	Good	Sand	
1197821	HEN	7	578540	7027333	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Black Spruce	Thin Moss Cover	Good	Sand	
1197822	HEN	7	578595	7027350	6/4/2011	Reddish Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Needle Cover	Good	Sand	
1197823	HEN	7	578645	7027362	6/4/2011	Chocolate Brown	Sand	Dry	Flat	60 C		Black Spruce	Needle Cover	Good	Sand	
1197824	HEN	7	578699	7027350	6/4/2011	Chocolate Brown	Clay	Damp	Flat	50 C		Poplar	Leaf Cover	Good	Clay	
1197825	HEN	7	578751	7027351	6/4/2011	Chocolate Brown	Sand	Dry	Flat	40 C		Black Spruce	Needle Cover	Good	Sand	
1197826	HEN	7	578805	7027356	6/4/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Black Spruce	Sphagnum Moss > 30cm	Good	Sand	
1197827	HEN	7	578855	7027353	6/4/2011	Chocolate Brown	Sand	Dry	Flat	70 C		Black Spruce	Needle Cover	Good	Sand	
1197828	HEN	7	578899	7027333	6/4/2011	Light Grey	Sand	Dry	Flat	70 C		Poplar	Thin Moss Cover	Good	Sand	
1197829	HEN	7	578952	7027329	6/4/2011	Chocolate Brown	Gravel	Dry	Flat	50 C		Poplar	Thin Moss Cover	Good	Sand	
1197831	HEN	7	578952	7027329	6/4/2011	Chocolate Brown	Gravel	Dry	Flat	50 C		Poplar	Thin Moss Cover	Good	Sand	
1197832	HEN	7	579000	7027313	6/4/2011	Chocolate Brown	Sand	Dry	Flat	30 C		Poplar	Leaf Cover	Good	Sand	
1197833	HEN	7	579046	7027294	6/4/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Poplar	Sphagnum Moss > 30cm	Good	Sand	
1197834	HEN	7	579093	7027275	6/4/2011	Chocolate Brown	Sand	Dry	Flat	50 C		Poplar	Leaf Cover	Good	Sand	
1197835	HEN	7	579140	7027248	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Poplar	Leaf Cover	Good	Sand	
1197836	HEN	7	579189	7027235	6/4/2011	Reddish Brown	Gravel	Dry	Subtle Slope	60 C		Black Spruce	Leaf Cover	Good	Sand	
1197857	HEN	7	582312	7026393	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	20 B		Dwarf Birch	Grass Cover	Good	Sand	
1197858	HEN	7	582351	7026361	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	20 B		Black Spruce	Grass Cover	Good	Sand	
1197859	HEN	7	582375	7026314	6/7/2011	Chocolate Brown	Sand	Dry	Steep	20 B		Poplar	Grass Cover	Good	Sand	
1197860	HEN	7	582418	7026288	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 B		Poplar	Grass Cover	Good	Sand	
1197861	HEN	7	582457	7026255	6/7/2011	Light Brown	Sand	Damp	Pronounced Slope	40 C		Poplar	Grass Cover	Good	Sand	
1197862	HEN	7	582496	7026223	6/7/2011	Chocolate Brown	Silt	Dry	Subtle Slope	30 B		Poplar	Grass Cover	Good	Sand	
1197863	HEN	7	582538	7026197	6/7/2011	Chocolate Brown	Silt	Dry	Subtle Slope	20 B		Poplar	Grass Cover	Good	Sand	
1197864	HEN	7	582585	7026172	6/7/2011	Light Brown	Sand	Damp	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	
1197865	HEN	7	582624	7026111	6/7/2011	Light Grey	Sand	Damp	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	
1197866	HEN	7	582624	7026111	6/7/2011	Light Grey	Sand	Damp	Subtle Slope	50 C		Poplar	Leaf Cover	Excellent	Sand	
1197867	HEN	7	582680	7026056	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Poplar	Leaf Cover	Good	Sand	
1197869	HEN	7	582722	7026025	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Sand	
1197870	HEN	7	582765	7025992	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 B		Poplar	Grass Cover	Good	Sand	
1197871	HEN	7	582823	7025975	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Poplar	Leaf Cover	Good	Sand	
1197872	HEN	7	582868	7025962	6/7/2011	Chocolate Brown	Sand	Damp	Steep	20 B		Poplar	Grass Cover	Good	Sand	
1197873	HEN	7	582920	7025939	6/7/2011	Chocolate Brown	Sand	Dry	Steep	10 B		Poplar	Grass Cover	Good	Sand	
1197874	HEN	7	582968	7025923	6/7/2011	Dark Blue Black	Sand	Dry	Steep	10 B		Poplar	Grass Cover	Good	Sand	
1197875	HEN	7	583015	7025902	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	10 B		Poplar	Grass Cover	Good	Sand	
1197876	HEN	7	583070	7025902	6/7/2011	Chocolate Brown	Sand	Dry	Steep	10 B		Poplar	Grass Cover	Good	Sand	
1197877	HEN	7	583114	7025882	6/7/2011	Dark Brown	Sand	Dry	Pronounced Slope	20 B		Poplar	Leaf Cover	Good	Sand	
1197878	HEN	7	583170	7025860	6/7/2011	Chocolate Brown	Sand	Dry	Steep	10 B		Poplar	Grass Cover	Good	Sand	Rocky
1197879	HEN	7	583218	7025845	6/7/2011	Chocolate Brown	Sand	Dry	Steep	10 B		Poplar	Grass Cover	Good	Sand	Rocky
1197880	HEN	7	583267	7025834	6/7/2011	Chocolate Brown	Sand	Dry	Steep	20 B		Poplar	Grass Cover	Good	Sand	
1197881	HEN	7	583314	7025828	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Sand	
1197882	HEN	7	583364	7025813	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Sand	
1197883	HEN	7	583412	7025797	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Sand	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1197884	HEN	7	583464	7025782	6/7/2011	Dark Blue Black	Sand	Dry	Pronounced Slope	20 B		Poplar	Grass Cover	Good	Sand	
1197885	HEN	7	583524	7025768	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	10 B		Poplar	Grass Cover	Good	Sand	
1197951	HEN	7	579517	7027099	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Sphagnum Moss > 30cm	Excellent	Coarse	
1197952	HEN	7	579474	7027070	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Sphagnum Moss > 30cm	Excellent	Coarse	
1197953	HEN	7	579432	7027042	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	70 C		Pine	Sphagnum Moss > 30cm	Excellent	Rocky	
1197954	HEN	7	579386	7027021	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Birch Forest	Thin Moss Cover	Excellent	Rocky	
1197955	HEN	7	579347	7026990	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1197956	HEN	7	579299	7026974	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Rocky	
1197957	HEN	7	579264	7026937	6/4/2011	Light Brown	Gravel	Dry	Subtle Slope	80 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1197958	HEN	7	579220	7026911	6/4/2011	Chocolate Brown	Silt	Dry	Subtle Slope	80 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1197959	HEN	7	579187	7026872	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Pine	Sphagnum Moss > 30cm	Excellent	Rocky	
1197960	HEN	7	579143	7026850	6/4/2011	Chocolate Brown	Clay	Dry	Subtle Slope	60 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1197961	HEN	7	579109	7026811	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1197962	HEN	7	579070	7026777	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Coarse	
1197963	HEN	7	579030	7026747	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Pine	Sphagnum Moss > 30cm	Excellent	Rocky	
1197964	HEN	7	578994	7026712	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Pine	Sphagnum Moss > 30cm	Excellent	Quartz Chips	
1197965	HEN	7	578954	7026680	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Pine	Thin Moss Cover	Excellent	Rocky	
1197966	HEN	7	578909	7026658	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Rocky	
1197967	HEN	7	578873	7026623	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Black Spruce	Thin Moss Cover	Excellent	Coarse	
1197968	HEN	7	578829	7026593	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Rocky	
1197969	HEN	7	578788	7026565	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1197970	HEN	7	578748	7026535	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Rocky	
1197971	HEN	7	578709	7026501	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	70 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1197972	HEN	7	578666	7026472	6/4/2011	Light Brown	Sand	Dry	Subtle Slope	60 C		Pine	Sphagnum Moss > 30cm	Excellent	Fine	
1197973	HEN	7	578628	7026439	6/4/2011	Light Brown	Gravel	Dry	Subtle Slope	60 C		Pine	Sphagnum Moss > 30cm	Excellent	Coarse	
1197974	HEN	7	578585	7026411	6/4/2011	Grey	Sand	Dry	Flat	60 C		Pine	Thin Moss Cover	Excellent	Fine	
1197975	HEN	7	578542	7026384	6/4/2011	Chocolate Brown	Gravel	Dry	Flat	70 C		Birch Forest	Thin Moss Cover	Excellent	Coarse	
1197976	HEN	7	578510	7026346	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss > 30cm	Excellent	Rocky	
1197977	HEN	7	578472	7026314	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Pine	Sphagnum Moss > 30cm	Excellent	Rocky	
1197978	HEN	7	578440	7026275	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	60 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1197979	HEN	7	578407	7026238	6/4/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Rocky	
1197980	HEN	7	578369	7026204	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Pine	Thin Moss Cover	Excellent	Coarse	
1197981	HEN	7	578341	7026162	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	80 C		Poplar	Thin Moss Cover	Excellent	Rocky	
1197982	HEN	7	578311	7026122	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1197983	HEN	7	578311	7026122	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1197984	HEN	7	578286	7026076	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	50 C		Pine	Thin Moss Cover	Excellent	Rocky	
1197985	HEN	7	578266	7026030	6/4/2011	Grey	Gravel	Dry	Subtle Slope	110 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1197986	HEN	7	578245	7025985	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	90 C		Poplar	Thin Moss Cover	Excellent	Coarse	
1197987	HEN	7	578227	7021789	6/8/2011	Light Brown	Silt	Dry	Pronounced Slope	30 B		White Spruce	Needle Cover	Poor	Fine	
1197988	HEN	7	578784	7021804	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 B		Poplar	Thin Moss Cover	Poor	Clay	
1197989	HEN	7	5787927	7021807	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1197990	HEN	7	5787978	7021817	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Bare Soil	Good	Coarse	
1197991	HEN	7	588026	7021796	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Excellent	Coarse	
1197992	HEN	7	588077	7021787	6/8/2011	Light Brown	Silt	Damp	Pronounced Slope	40 B		White Spruce	Needle Cover	Poor	Fine	
1197993	HEN	7	588119	7021862	6/8/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	30 B		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1197994	HEN	7	588164	7021883	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Clay	
1197995	HEN	7	588228	7021886	6/8/2011	Bluish Grey	Sand	Dry	Pronounced Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1197996	HEN	7	588261	7021895	6/8/2011	Bluish Grey	Silt	Dry	Pronounced Slope	50 B		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1197997	HEN	7	588307	7021919	6/8/2011	Bluish Grey	Clay	Damp	Pronounced Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Poor	Fine	
1197998	HEN	7	588357	7021938	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1197999	HEN	7	588397	7021956	6/8/2011	Bluish Grey	Clay	Wet	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1198001	HEN	7	573834	7029953	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Dwarf Birch	Leaf Cover	Excellent	Coarse	
1198002	HEN	7	580571	7027376	6/4/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Excellent	Coarse	
1198003	HEN	7	580571	7027376	6/4/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	40 C		Poplar	Grass Cover	Excellent	Coarse	
1198004	HEN	7	574075	7030054	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	40 B		Old Burn	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1198005	HEN	7	574022	7030037	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Old Burn	Leaf Cover	Excellent	Coarse	
1198006	HEN	7	573977	7030015	6/3/2011	Reddish Yellow	Sand	Dry	Flat	50 C		Old Burn	Sphagnum Moss < 30cm	Excellent	Coarse	
1198007	HEN	7	573319	7029953	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1198008	HEN	7	574767	7030422	6/3/2011	Chocolate Brown	Sand	Dry	Flat	40 C		Poplar	Sphagnum Moss < 30cm	Excellent	Coarse	
1198009	HEN	7	580518	7027386	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Coarse	
1198010	HEN	7	580465	7027389	6/4/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1198011	HEN	7	580318	7027438	6/4/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1198012	HEN	7	580216	7027478	6/4/2011	Chocolate Brown	Sand	Damp	Flat	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Partially Frozen
1198013	HEN	7	580168	7027497	6/4/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1198014	HEN	7	573448	7029906	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1198015	HEN	7	573518	7029915	6/3/2011	Reddish Yellow	Sand	Dry	Subtle Slope	40 C		Dwarf Birch	Leaf Cover	Good	Coarse	
1198016	HEN	7	573625	7029908	6/3/2011	Chocolate Brown	Sand	Wet	Subtle Slope	30 B		Dwarf Birch	Sphagnum Moss < 30cm	Good	Partially Frozen	
1198017	HEN	7	573448	7029906	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1198018	HEN	7	573734	7029932	6/3/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Willows	Leaf Cover	Good	Coarse	
1198019	HEN	7	573929	7029993	6/3/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1198053	HEN	7	583418	7027093	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	Organic 25%



Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1198054	HEN	7	583458	7027067	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 B		Black Spruce	Leaf Cover	Poor	Organic 50%	Frozen
1198055	HEN	7	583468	7027014	6/6/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 C		Birch Forest	Leaf Cover	Excellent	Coarse	
1198056	HEN	7	583593	7026942	6/6/2011	Grey	Clay	Wet	Subtle Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Frozen	Organic 50%
1198057	HEN	7	583624	7026903	6/6/2011	Chocolate Brown	Sand	Wet	Subtle Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Good	Partially Frozen	
1198058	HEN	7	583927	7026556	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 C		White Spruce	Bare Soil	Good	Fine	
1198059	HEN	7	583873	7026555	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1198060	HEN	7	583651	7026862	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Sand	Rocky
1198061	HEN	7	583833	7026582	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	40 B		White Spruce	Sphagnum Moss < 30cm	Good	Clay	
1198062	HEN	7	583801	7026624	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Clay	
1198063	HEN	7	583768	7026716	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1198064	HEN	7	583776	7026666	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Poor	Small Sample	Partially Frozen
1198065	HEN	7	583717	7026730	6/6/2011	Reddish Yellow	Silt	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1198066	HEN	7	583706	7026779	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	
1198067	HEN	7	583681	7026823	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Small Sample	Coarse
1198068	HEN	7	583978	7026555	6/6/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	40 C		Birch Forest	Leaf Cover	Good	Rocky	
1198069	HEN	7	584030	7026559	6/6/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Clay	
1198070	HEN	7	584081	7026565	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 C		Birch Forest	Leaf Cover	Good	Coarse	Small Sample
1198071	HEN	7	584127	7026558	6/6/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	50 C		Birch Forest	Leaf Cover	Excellent	Sand	
1198073	HEN	7	584176	7026569	6/6/2011	Yellow	Clay	Damp	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1198074	HEN	7	584226	7026575	6/6/2011	Light Bluish Grey	Sand	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Small Sample	
1198075	HEN	7	584275	7026574	6/6/2011	Light Bluish Grey	Sand	Damp	Pronounced Slope	40 C		Black Spruce	Leaf Cover	Excellent	Sand	
1198076	HEN	7	584700	7026702	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Black Spruce	Needle Cover	Excellent	Coarse	
1198077	HEN	7	584176	7026569	6/6/2011	Yellow	Clay	Damp	Pronounced Slope	50 C		Black Spruce	Leaf Cover	Excellent	Coarse	
1198078	HEN	7	584653	7026687	6/6/2011	Chocolate Brown	Clay	Dry	Subtle Slope	50 C		Black Spruce	Needle Cover	Excellent	Fine	
1198079	HEN	7	584556	7026660	6/6/2011	Reddish Yellow	Silt	Dry	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1198080	HEN	7	584512	7026630	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 C		Black Spruce	Sphagnum Moss < 30cm	Good	Clay	
1198081	HEN	7	584322	7026561	6/6/2011	Yellow	Clay	Damp	Pronounced Slope	50 C		Birch Forest	Leaf Cover	Excellent	Fine	
1198082	HEN	7	584464	7026628	6/6/2011	Reddish Yellow	Sand	Dry	Subtle Slope	30 C		Black Spruce	Needle Cover	Excellent		Coarse
1198083	HEN	7	584418	7026600	6/6/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Clay	
1198084	HEN	7	584608	7026664	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Black Spruce	Needle Cover	Good	Coarse	
1198085	HEN	7	584365	7026585	6/6/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	20 C		White Spruce	Leaf Cover	Good	Rocky	
1198086	HEN	7	585970	7028280	6/6/2011	Reddish Yellow	Sand	Dry	Subtle Slope	30 C		Poplar	Thin Moss Cover	Good	Fine	
1198087	HEN	7	586296	7027876	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	
1198088	HEN	7	586245	7027898	6/6/2011	Chocolate Brown	Sand	Dry	Flat	20 C		Poplar	Leaf Cover	Good	Sand	
1198089	HEN	7	586347	7027871	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		White Spruce	Leaf Cover	Good	Fine	
1198090	HEN	7	586388	7027843	6/6/2011	Reddish Brown	Clay	Dry	Subtle Slope	80 C		White Spruce	Leaf Cover	Excellent	Clay	
1198091	HEN	7	586388	7027843	6/6/2011	Reddish Brown	Clay	Dry	Subtle Slope	80 C		White Spruce	Leaf Cover	Excellent	Clay	
1198092	HEN	7	586437	7027823	6/6/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 C		White Spruce	Reindeer Moss	Good	Fine	
1198093	HEN	7	586487	7027795	6/6/2011	Dark Blue Black	Sand	Dry	Subtle Slope	30 C		White Spruce	Needle Cover	Good	Sand	
1198094	HEN	7	586549	7027767	6/6/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1198095	HEN	7	586594	7027742	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Birch Forest	Leaf Cover	Good	Fine	
1198096	HEN	7	586653	7027711	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Sand	
1198097	HEN	7	586690	7027682	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		Birch Forest	Leaf Cover	Good	Coarse	
1198102	HEN	7	587167	7023406	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		Black Spruce	Leaf Cover	Good	Organic 10%	Rocky
1198103	HEN	7	587113	7023396	6/8/2011	Bluish Grey	Gravel	Damp	Subtle Slope	40 A		Black Spruce	Sphagnum Moss < 30cm	Poor	Rocky	Organic 10%
1198104	HEN	7	587065	7024805	6/8/2011	Greyish Green	Sand	Damp	Flat	30 C		Poplar	Sphagnum Moss < 30cm	Good	Clay	
1198106	HEN	7	586928	7024739	6/8/2011	Reddish Brown	Gravel	Damp	Flat	40 C		Poplar	Sphagnum Moss < 30cm	Good	Sand	Rocky
1198151	HEN	7	586528	7028487	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Poplar	Leaf Cover	Good	Rocky	Organic 10%
1198153	HEN	7	586424	7028657	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1198154	HEN	7	586965	7027647	6/6/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1198155	HEN	7	586731	7024301	6/8/2011	Reddish Brown	Gravel	Dry	Flat	50 C		Black Spruce	Reindeer Moss	Good	Sand	Quartz Chips
1198156	HEN	7	586354	7028853	6/6/2011	Chocolate Brown	Clay	Wet	Steep	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Frozen
1198158	HEN	7	586490	7028521	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	30 C		Black Spruce	Thin Moss Cover	Good	Coarse	Rocky
1198159	HEN	7	586744	7028211	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	40 C		Black Spruce	Needle Cover	Good	Rocky	Small Sample
1198160	HEN	7	587015	7024791	6/8/2011	Chocolate Brown	Gravel	Damp	Flat	40 C		Poplar	Leaf Cover	Good	Sand	
1198161	HEN	7	586573	7028413	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1198162	HEN	7	586454	7028614	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	20 B		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Partially Frozen
1198163	HEN	7	586891	7028127	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1198164	HEN	7	586652	7028338	6/6/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Clay
1198165	HEN	7	586371	7028805	6/6/2011	Chocolate Brown	Clay	Wet	Steep	50 B		Black Spruce	Sphagnum Moss > 30cm	Good	Frozen	Organic 50%
1198167	HEN	7	586336	7028907	6/6/2011	Chocolate Brown	Clay	Wet	Steep	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Quartz Chips
1198168	HEN	7	586977	7027757	6/6/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1198169	HEN	7	586617	7028377	6/6/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	30 B		Black Spruce	Needle Cover	Good	Fine	Frozen
1198170	HEN	7	586720	7028257	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Partially Frozen
1198171	HEN	7	586970	7027703	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C		Poplar	Leaf Cover	Good	Coarse	Organic 10%
1198172	HEN	7	587557	7025683	6/7/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 C		Black Spruce	Thin Moss Cover	Good	Coarse	Organic 10%
1198173	HEN	7	587516	7025721	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1198174	HEN	7	587484	7025764	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	Coarse
1198175	HEN	7	587369	7025842	6/7/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 C		Black Spruce	Reindeer Moss	Good	Coarse	Rocky
1198176	HEN	7	587322	7025890	6/7/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	30 C		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1198177	HEN	7	587316	7025946	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 C		Birch Forest	Sphagnum Moss < 30cm	Good	Rocky	Coarse

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1198178	HEN	7	587239	7026023	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	20 B		Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1198179	HEN	7	587178	7026107	6/7/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	40 C		Birch Forest	Sphagnum Moss < 30cm	Poor	Frozen	Rocky
1198181	HEN	7	586856	7026388	6/7/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Organic 25%
1198182	HEN	7	586821	7026427	6/7/2011	Dark Brown	Clay	Damp	Pronounced Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	Possible Creek Contamination
1198183	HEN	7	586709	7026510	6/7/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	30 C		Black Spruce	Needle Cover	Good	Clay	Coarse
1198184	HEN	7	586674	7026552	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Thin Moss Cover	Good	Coarse	Organic 10%
1198185	HEN	7	586646	7026606	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C		Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1198186	HEN	7	586609	7026646	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Needle Cover	Good	Fine	Organic 10%
1198187	HEN	7	586537	7026728	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Needle Cover	Good	Organic 10%	Fine
1198188	HEN	7	586484	7026826	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 C		Black Spruce	Needle Cover	Good	Coarse	Organic 10%
1198189	HEN	7	586448	7026853	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Reindeer Moss	Good	Fine	Organic 10%
1198190	HEN	7	586759	7026514	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Thin Moss Cover	Good	Coarse	Organic 10%
1198192	HEN	7	586759	7026514	6/7/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Black Spruce	Thin Moss Cover	Good	Coarse	Organic 10%
1198193	HEN	7	586874	7026340	6/7/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Organic 25%
1198194	HEN	7	586929	7026318	6/7/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss < 30cm	Good	Organic 50%	Frozen
1198195	HEN	7	586981	7026303	6/7/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	30 C		Birch Forest	Leaf Cover	Good	Coarse	Possible Creek Contamination
1198197	HEN	7	587152	7026191	6/7/2011	Dark Brown	Clay	Wet	Subtle Slope	40 C		Black Spruce	Bare Soil	Good	Coarse	Rocky
1198198	HEN	7	587136	7026137	6/7/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	30 B		Birch Forest	Sphagnum Moss < 30cm	Poor	Frozen	Rocky
1198199	HEN	7	587279	7025985	6/7/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 C		Birch Forest	Sphagnum Moss < 30cm	Poor	Rocky	Coarse
1198200	HEN	7	587404	7025835	6/7/2011	Reddish Brown	Sand	Dry	Subtle Slope	30 C		Black Spruce	Reindeer Moss	Good	Coarse	Rocky
1198201	HEN	7	587444	7025801	6/7/2011	Reddish Brown	Silt	Damp	Subtle Slope	30 C		Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Rocky
1198202	HEN	7	584350	7021662	6/8/2011	Reddish Brown	Sand	Dry	Flat	70 C		White Spruce	Leaf Cover	Excellent	Coarse	Rocky
1198203	HEN	7	584318	7021619	6/8/2011	Dark Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1198204	HEN	7	584284	7021574	6/8/2011	Dark Brown	Sand	Dry	Subtle Slope	40 C		White Spruce	Thin Moss Cover	Excellent	Coarse	Rocky
1198205	HEN	7	584245	7021539	6/8/2011	Dark Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	Rocky
1198206	HEN	7	584193	7021537	6/8/2011	Dark Brown	Sand	Damp	Pronounced Slope	70 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Rocky	
1198207	HEN	7	584145	7021515	6/8/2011	Dark Brown	Sand	Dry	Subtle Slope	80 C		Poplar	Leaf Cover	Excellent	Coarse	Rocky
1198208	HEN	7	584093	7021493	6/8/2011	Chocolate Brown	Silt	Dry	Subtle Slope	60 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	Rocky
1198209	HEN	7	584049	7021464	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		White Spruce	Thin Moss Cover	Excellent	Fine	Rocky
1198210	HEN	7	583999	7021463	6/8/2011	Chocolate Brown	Silt	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1198211	HEN	7	583949	7021449	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1198212	HEN	7	583898	7021450	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1198213	HEN	7	584470	7021754	6/8/2011	Reddish Brown	Sand	Damp	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1198214	HEN	7	584436	7021714	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C		White Spruce	Sphagnum Moss < 30cm	Excellent	Fine	
1198215	HEN	7	584397	7021662	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C		White Spruce	Leaf Cover	Excellent	Fine	
1198216	HEN	7	583848	7021454	6/8/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	50 C		Poplar	Leaf Cover	Good	Rocky	
1198217	HEN	7	583798	7021437	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1198218	HEN	7	583747	7021444	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1198219	HEN	7	583701	7021425	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Fine	Rocky
1198220	HEN	7	583659	7021399	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1198221	HEN	7	583604	7021404	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1198222	HEN	7	583560	7021376	6/8/2011	Dark Brown	Sand	Dry	Pronounced Slope	80 C		Poplar	Leaf Cover	Excellent	Rocky	
1198223	HEN	7	583507	7021364	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	60 C		Poplar	Leaf Cover	Excellent	Coarse	
1198224	HEN	7	583462	7021339	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	90 C		White Spruce	Leaf Cover	Excellent	Coarse	
1198225	HEN	7	583411	7021322	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	70 C		Poplar	Leaf Cover	Excellent	Coarse	
1198226	HEN	7	583359	7021308	6/8/2011	Chocolate Brown	Gravel	Dry	Subtle Slope	40 B		White Spruce	Reindeer Moss	Good	Fine	
1198227	HEN	7	583306	7021309	6/8/2011	Reddish Brown	Sand	Dry	Subtle Slope	70 C		White Spruce	Thin Moss Cover	Excellent	Fine	
1198228	HEN	7	583254	7021302	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Fine	Rocky
1198229	HEN	7	583211	7021273	6/8/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	40 C		Poplar	Leaf Cover	Good	Rocky	
1198230	HEN	7	583169	7021242	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	50 C		Poplar	Leaf Cover	Excellent	Fine	
1198231	HEN	7	583116	7021237	6/8/2011	Chocolate Brown	Gravel	Dry	Pronounced Slope	60 C		Poplar	Leaf Cover	Excellent	Fine	
1198232	HEN	7	583064	7021245	6/8/2011	Light Brown	Silt	Dry	Subtle Slope	110 B		Poplar	Leaf Cover	Good	Coarse	
1198233	HEN	7	583010	7021240	6/8/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 B		Poplar	Leaf Cover	Good	Rocky	
1198234	HEN	7	582958	7021239	6/8/2011	Chocolate Brown	Silt	Dry	Subtle Slope	40 B		Poplar	Leaf Cover	Good	Coarse	Rocky
1198235	HEN	7	582907	7021245	6/8/2011	Grey	Sand	Dry	Steep	60 C		Poplar	Bare Soil	Excellent	Rocky	
1198301	HEN	7	585132	7025280	6/6/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Black Spruce	Thin Moss Cover	Good	Fine	
1198302	HEN	7	585082	7025284	6/6/2011	Reddish Brown	Gravel	Damp	Subtle Slope	40 C		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1198303	HEN	7	585033	7025296	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Poor	Coarse	
1198304	HEN	7	584983	7025300	6/6/2011	Chocolate Brown	Gravel	Damp	Pronounced Slope	40 B		Alders	Sphagnum Moss > 30cm	Good	Fine	Organic 10%
1198305	HEN	7	584935	7025314	6/6/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1198306	HEN	7	584885	7025321	6/6/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1198307	HEN	7	584835	7025323	6/6/2011	Chocolate Brown	Clay	Damp	Subtle Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1198308	HEN	7	584786	7025336	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1198309	HEN	7	584741	7025355	6/6/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	Rocky
1198310	HEN	7	584692	7025369	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 C		Black Spruce	Thin Moss Cover	Good	Fine	
1198311	HEN	7	584645	7025383	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1198312	HEN	7	584598	7025399	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C		White Spruce	Sphagnum Moss > 30cm	Good	Fine	
1198313	HEN	7	584551	7025414	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1198314	HEN	7	584503	7025424	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B		White Spruce	Sphagnum Moss > 30cm	Good	Partially Frozen	
1198315	HEN	7	584457	7025445	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 B		Black Spruce	Sphagnum Moss > 30cm	Good	Fine	
1198316	HEN	7	584408	7025458	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 B		Alders	Sphagnum Moss > 30cm	Good	Fine	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1198317	HEN	7	584360	7025472	6/6/2011	Reddish Brown	Gravel	Damp	Subtle Slope	50 C	B	Alders	Sphagnum Moss > 30cm	Good	Fine	
1198318	HEN	7	584310	7025478	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	30 B	B	Black Spruce	Sphagnum Moss > 30cm	Good	Coarse	
1198319	HEN	7	584263	7025494	6/6/2011	Chocolate Brown	Gravel	Damp	Subtle Slope	50 C	C	Alders	Sphagnum Moss > 30cm	Good	Fine	
1198320	HEN	7	584213	7025499	6/6/2011	Chocolate Brown	Clay	Damp	Subtle Slope	50 B	B	White Spruce	Sphagnum Moss > 30cm	Good	Fine	
1198321	HEN	7	584165	7025513	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40 B	B	Alders	Sphagnum Moss > 30cm	Good	Coarse	
1198384	HEN	7	584982	7027253	6/7/2011	Dark Brown	Silt	Damp	Pronounced Slope	40 B	B	Birch Forest	Sphagnum Moss < 30cm	Poor	Partially Frozen	Organic 25%
1198385	HEN	7	584983	7027308	6/7/2011	Chocolate Brown	Sand	Wet	Pronounced Slope	30 B	B	Black Spruce	Bare Soil	Good	Partially Frozen	Coarse
1198386	HEN	7	586299	7029014	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 B	B	Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Organic 10%
1198387	HEN	7	586387	7028756	6/6/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	40 B	B	Birch Forest	Sphagnum Moss < 30cm	Good	Frozen	Organic 10%
1198388	HEN	7	586320	7028957	6/6/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	40 B	B	Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	Frozen
1198389	HEN	7	586994	7028011	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B	B	Birch Forest	Sphagnum Moss < 30cm	Excellent	Partially Frozen	Fine
1198390	HEN	7	587006	7027957	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	40 C	C	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1198391	HEN	7	586847	7028156	6/6/2011	Chocolate Brown	Sand	Damp	Pronounced Slope	40 C	C	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1198392	HEN	7	586990	7027856	6/6/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	30 B	B	Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Frozen
1198393	HEN	7	586984	7027806	6/6/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C	C	Black Spruce	Needle Cover	Good	Coarse	Organic 10%
1198394	HEN	7	586803	7028179	6/6/2011	Reddish Brown	Sand	Damp	Pronounced Slope	40 C	C	Birch Forest	Sphagnum Moss > 30cm	Good	Coarse	Organic 10%
1198395	HEN	7	586940	7028106	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 C	C	Birch Forest	Leaf Cover	Good	Coarse	Organic 10%
1198396	HEN	7	586963	7028057	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	40 C	C	Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1198397	HEN	7	586466	7028564	6/6/2011	Chocolate Brown	Clay	Damp	Pronounced Slope	30 B	B	Black Spruce	Sphagnum Moss < 30cm	Good	Coarse	Organic 10%
1198398	HEN	7	586299	7029014	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 B	B	Black Spruce	Sphagnum Moss < 30cm	Good	Frozen	Organic 10%
1198399	HEN	7	586409	7028708	6/6/2011	Chocolate Brown	Sand	Dry	Steep	30 C	C	Black Spruce	Reindeer Moss	Good	Coarse	Organic 10%
1198400	HEN	7	586688	7028299	6/6/2011	Chocolate Brown	Clay	Wet	Pronounced Slope	40 B	B	Black Spruce	Sphagnum Moss < 30cm	Good	Fine	Frozen
1198401	HEN	7	584836	7022575	6/8/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C	C	Birch Forest	Leaf Cover	Excellent	Sand	
1198402	HEN	7	584962	7022440	6/8/2011	Reddish Yellow	Sand	Dry	Subtle Slope	50 C	C	Birch Forest	Leaf Cover	Excellent	Sand	
1198403	HEN	7	585252	7022041	6/8/2011	Light Brown	Silt	Dry	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Excellent	Fine	
1198404	HEN	7	585216	7022080	6/8/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198405	HEN	7	585312	7021958	6/8/2011	Light Brown	Sand	Dry	Pronounced Slope	70 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198406	HEN	7	585283	7022000	6/8/2011	Light Brown	Clay	Damp	Pronounced Slope	50 C	C	Poplar	Leaf Cover	Good	Clay	
1198407	HEN	7	585072	7022222	6/8/2011	Chocolate Brown	Sand	Dry	Subtle Slope	40 C	C	White Spruce	Sphagnum Moss < 30cm	Good	Clay	
1198408	HEN	7	585149	7022149	6/8/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	60 C	C	Birch Forest	Leaf Cover	Excellent	Sand	
1198409	HEN	7	585183	7022115	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198410	HEN	7	585382	7021886	6/8/2011	Reddish Yellow	Sand	Damp	Steep	50 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198411	HEN	7	585418	7021852	6/8/2011	Reddish Yellow	Sand	Dry	Steep	50 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198412	HEN	7	585585	7021666	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 C	C	Poplar	Leaf Cover	Excellent	Clay	
1198413	HEN	7	585553	7021704	6/8/2011	Chocolate Brown	Sand	Dry	Steep	40 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198414	HEN	7	585520	7021742	6/8/2011	Reddish Yellow	Sand	Dry	Steep	40 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198415	HEN	7	585445	7021812	6/8/2011	Chocolate Brown	Silt	Dry	Steep	40 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198416	HEN	7	585349	7021926	6/8/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	40 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198417	HEN	7	585483	7021775	6/8/2011	Reddish Yellow	Sand	Dry	Steep	40 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198418	HEN	7	585657	7021596	6/8/2011	Reddish Yellow	Sand	Dry	Pronounced Slope	90 C	C	Poplar	Leaf Cover	Good	Sand	
1198419	HEN	7	585585	7021666	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	70 C	C	Poplar	Leaf Cover	Excellent	Clay	
1198420	HEN	7	585718	7021519	6/8/2011	Chocolate Brown	Sand	Dry	Steep	50 C	C	Poplar	Leaf Cover	Good	Sand	
1198421	HEN	7	585686	7021555	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	60 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198422	HEN	7	585686	7021555	6/8/2011	Reddish Brown	Sand	Dry	Pronounced Slope	60 C	C	Poplar	Leaf Cover	Excellent	Sand	
1198424	HEN	7	585118	7022188	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	50 C	C	Birch Forest	Leaf Cover	Excellent	Sand	
1198451	HEN	7	583302	7021794	6/8/2011	Grey	Silt	Dry	Pronounced Slope	50 C	C	Poplar	Grass Cover	Good	Fine	
1198452	HEN	7	583256	7021768	6/8/2011	Chocolate Brown	Sand	Dry	Steep	40 C	C	Poplar	Grass Cover	Good	Fine	
1198453	HEN	7	583213	7021733	6/8/2011	Chocolate Brown	Sand	Dry	Pronounced Slope	30 C	C	Poplar	Leaf Cover	Good	Coarse	
1198454	HEN	7	583180	7021702	6/8/2011	Chocolate Brown	Silt	Damp	Pronounced Slope	40 C	C	Poplar	Leaf Cover	Good	Fine	
1198455	HEN	7	583132	7021674	6/8/2011	Reddish Yellow	Clay	Dry	Pronounced Slope	40 C	C	Poplar	Leaf Cover	Good	Clay	
1198456	HEN	7	583091	7021645	6/8/2011	Chocolate Brown	Silt	Dry	Steep	40 C	C	Poplar	Leaf Cover	Good	Rocky	
1198457	HEN	7	583072	7021596	6/8/2011	Reddish Yellow	Silt	Dry	Steep	60 C	C	No Tree Cover	Leaf Cover	Good	Fine	
1198458	HEN	7	583034	7021560	6/8/2011	Chocolate Brown	Silt	Dry	Steep	40 C	C	No Tree Cover	Grass Cover	Good	Fine	
1198459	HEN	7	583005	7021524	6/8/2011	Chocolate Brown	Silt	Dry	Steep	40 C	C	Poplar	Grass Cover	Good	Fine	
1198460	HEN	7	582977	7021479	6/8/2011	Chocolate Brown	Silt	Dry	Steep	30 C	C	Poplar	Leaf Cover	Good	Rocky	
1198461	HEN	7	582936	7021449	6/8/2011	Chocolate Brown	Silt	Damp	Steep	30 C	C	Poplar	Grass Cover	Good	Rocky	
1198462	HEN	7	582893	7021422	6/8/2011	Chocolate Brown	Silt	Dry	Steep	40 C	C	Poplar	Leaf Cover	Good	Rocky	
1198463	HEN	7	582849	7021390	6/8/2011	Light Brown	Silt	Dry	Steep	50 C	C	No Tree Cover	Grass Cover	Good	Rocky	
1198464	HEN	7	582827	7021343	6/8/2011	Chocolate Brown	Silt	Dry	Pronounced Slope	30 C	C	Poplar	Leaf Cover	Good	Rocky	
1198485	HEN	7	584005	7022245	6/8/2011	Chocolate Brown	Sand	Dry	Steep	60 C	C	White Spruce	Thin Moss Cover	Good	Fine	
1198501	HEN	7	579413	7026386	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	70 C	C	Poplar	Bare Soil	Good	Coarse	
1198502	HEN	7	579392	7026338	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C	C	Black Spruce	Thin Moss Cover	Excellent	Coarse	
1198503	HEN	7	579354	7026306	6/4/2011	Bluish Grey	Clay	Damp	Subtle Slope	40 B	B	Poplar	Sphagnum Moss < 30cm	Poor	Clay	
1198504	HEN	7	579329	7026269	6/4/2011	Chocolate Brown	Sand	Dry	Subtle Slope	50 C	C	Poplar	Thin Moss Cover	Good	Coarse	
1198505	HEN	7	579329	7026269	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C	C	Alders	Reindeer Moss	Good	Coarse	
1198506	HEN	7	582354	7025036	6/6/2011	Chocolate Brown	Clay	Wet	Subtle Slope	20 B	B	Black Spruce	Thin Moss Cover	Poor	Partially Frozen	
1198507	HEN	7	582316	7025068	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	20 B	B	Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1198508	HEN	7	582278	7025102	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C	C	Dwarf Birch	Sphagnum Moss < 30cm	Good	Coarse	
1198509	HEN	7	582237	7025134	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50 C	C	Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1198510	HEN	7	582196	7025162	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30 C	C	Dwarf Birch	Leaf Cover	Poor	Coarse	
1198511	HEN	7	582163	7025198	6/6/2011	Bluish Grey	Sand	Damp	Subtle Slope	50 C	C	Dwarf Birch	Leaf Cover	Good	Coarse	

Sample ID	Project ID	UTM Zone	UTM Easting	UTM Northing	Sample Date	Soil Colour	Soil Texture	Soil Moisture	Site Slope	Sample Depth	Sample Horizon	Site Vegetation	Site Cover	Sample Quality	Note1	Note2
1198512	HEN	7	582129	7025236	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	30	C	Birch Forest	Leaf Cover	Excellent	Coarse	
1198513	HEN	7	582121	7025284	6/6/2011	Bluish Grey	Gravel	Damp	Subtle Slope	40	C	Birch Forest	Leaf Cover	Good	Coarse	
1198514	HEN	7	582093	7025330	6/6/2011	Dark Blue Black	Sand	Damp	Subtle Slope	40	C	Birch Forest	Sphagnum Moss < 30cm	Good	Coarse	
1198515	HEN	7	582086	7025379	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50	C	Birch Forest	Sphagnum Moss < 30cm	Excellent	Coarse	
1198516	HEN	7	582081	7025430	6/6/2011	Bluish Grey	Gravel	Damp	Subtle Slope	30	C	Dwarf Birch	Leaf Cover	Good	Coarse	
1198517	HEN	7	582048	7025477	6/6/2011	Dark Brown	Sand	Damp	Subtle Slope	30	C	Black Spruce	Reindeer Moss	Good	Coarse	
1198518	HEN	7	582068	7025528	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50	C	Birch Forest	Leaf Cover	Excellent	Coarse	
1198519	HEN	7	582068	7025528	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50	C	Birch Forest	Leaf Cover	Excellent	Coarse	
1198520	HEN	7	582056	7025580	6/6/2011	Reddish Yellow	Sand	Damp	Subtle Slope	30	C	Birch Forest	Sphagnum Moss > 30cm	Excellent	Coarse	
1198521	HEN	7	582027	7025623	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50	C	Birch Forest	Reindeer Moss	Excellent	Coarse	
1198522	HEN	7	582016	7025670	6/6/2011	Bluish Grey	Sand	Damp	Subtle Slope	40	C	Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1198523	HEN	7	582022	7025721	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50	C	Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1198524	HEN	7	582014	7025774	6/6/2011	Bluish Grey	Sand	Damp	Subtle Slope	40	C	Black Spruce	Leaf Cover	Good	Coarse	
1198525	HEN	7	581996	7025820	6/6/2011	Bluish Grey	Clay	Wet	Subtle Slope	30	B	Black Spruce	Sphagnum Moss < 30cm	Poor	Rocky	
1198526	HEN	7	581991	7025871	6/6/2011	Chocolate Brown	Clay	Damp	Subtle Slope	40	B	Dwarf Birch	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1198527	HEN	7	581978	7025916	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40	C	Black Spruce	Reindeer Moss	Excellent	Coarse	
1198528	HEN	7	581980	7025969	6/6/2011	Reddish Brown	Sand	Damp	Subtle Slope	30	C	Alders	Leaf Cover	Excellent	Coarse	
1198529	HEN	7	581969	7026018	6/6/2011	Bluish Grey	Clay	Wet	Subtle Slope	30	B	Black Spruce	Sphagnum Moss < 30cm	Poor	Coarse	
1198530	HEN	7	581957	7026065	6/6/2011	Bluish Grey	Sand	Wet	Subtle Slope	30	B	Black Spruce	Sphagnum Moss < 30cm	Poor	Clay	
1198531	HEN	7	581931	7026114	6/6/2011	Bluish Grey	Sand	Damp	Subtle Slope	30	B	Black Spruce	Sphagnum Moss < 30cm	Poor	Partially Frozen	
1198532	HEN	7	581908	7026159	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	50	C	Black Spruce	Reindeer Moss	Good	Coarse	
1198533	HEN	7	581901	7026209	6/6/2011	Chocolate Brown	Sand	Wet	Pronounced Slope	30	B	Black Spruce	Reindeer Moss	Poor	Clay	
1198534	HEN	7	581858	7026368	6/6/2011	Chocolate Brown	Sand	Damp	Subtle Slope	40	C	Black Spruce	Sphagnum Moss < 30cm	Excellent	Coarse	
1198535	HEN	7	581879	7026403	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	30	C	Black Spruce	Sphagnum Moss < 30cm	Good	Rocky	
1198536	HEN	7	581871	7026448	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40	C	Black Spruce	Reindeer Moss	Good	Coarse	
1198536	HEN	7	581871	7026448	6/6/2011	Chocolate Brown	Gravel	Wet	Subtle Slope	40	C	Black Spruce	Reindeer Moss	Good	Coarse	

*Appendix III - Rock Sample Locations and Descriptions*

Sample ID	Zone	Easting	Northing	Altitude (m)	Sample Description	Sample Type	Date
580531	7	578541	7031674	885	Granite gneiss (?), foliated, weak silica, K-alt, tr disseminated euhedral pyrite	Rcrop, CGr	6/13/2011
580532	7	578783	7031320	884	Metsed (?), ser schist, strong foliation, Mod ser, weak mariposite alt, tr pyrite	Rcrop, CGr	6/13/2011
580533	7	578802	7031306	885	Metsed (?), ser schist, strong foliation, Strong ser, mod silica alt, tr pyrite, lime green	Rcrop, CGr	6/13/2011
1111042	7	584574	7026568	770	Host metased w/ vuggy Qtz & tarnished pyr (in Qtz), epi, bio, pyr, si		6/13/2011
1111043	7	584564	7026576	774	Qtz Vein		6/13/2011
1111044	7	584560	7026551	772	Qtz-Alt metased. Crenulated txtrs, x-cutting vuggy Qtz veins (<1mm) w/ pyr, epi, lim. Biotite rich, multiphase Qtz		6/13/2011
1111116	7	584569	7026545	763	Quartz boulder with local rusting with specks of py	SC	6/13/2011
1111117	7	584528	7026545	768	Quartz biotite gneiss with a strong foliation and crenulations, sample taken at small quartz vein fold nose	SC	6/13/2011
1111118	7	584557	7026547	768	Oxidised granodiorite, no sulphides but sample is within Au anomaly	SC	6/13/2011



*Appendix IV - Soil Assay Certificates*



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 13, 2011
Report Date: July 19, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

VAN11002506.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID:
P.O. Number
Number of Samples: 273

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

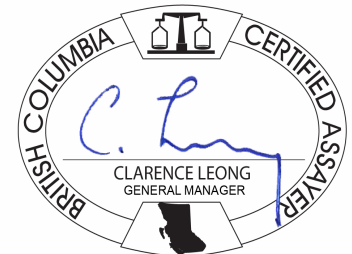
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains 3 rows of sample preparation data.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.  
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Ethos Capital Corp.**  
 Suite 680-789 West Pender St  
 Vancouver BC V6C 1H2 Canada

Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN11002506.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1192327	Soil	0.8	37.4	10.9	98	<0.1	17.3	12.1	464	4.79	7.7	0.8	<0.5	7.0	26	<0.1	0.4	0.1	54	0.30	0.053
1192328	Soil	1.0	15.9	8.9	46	<0.1	19.1	8.4	250	2.49	10.2	0.6	3.5	4.1	24	<0.1	0.7	0.2	54	0.24	0.032
1192331	Soil	0.7	21.4	24.3	82	<0.1	15.8	7.9	397	3.48	8.9	0.6	0.7	3.8	21	0.1	0.6	0.2	45	0.28	0.043
1192332	Soil	1.0	35.2	15.3	113	<0.1	18.1	8.4	800	3.81	8.0	0.8	1.3	3.8	23	<0.1	0.6	0.2	38	0.26	0.049
1192333	Soil	0.9	36.0	51.6	174	<0.1	17.5	8.8	894	4.42	6.6	0.9	3.0	5.0	25	0.3	0.8	0.3	35	0.34	0.052
1192334	Soil	0.6	61.3	12.0	129	<0.1	23.2	9.4	797	5.39	7.2	0.7	3.9	5.0	28	0.1	0.8	0.2	38	0.41	0.048
1192335	Soil	0.9	20.8	9.6	47	0.1	20.5	10.3	466	2.43	8.3	2.2	1.9	2.8	33	0.1	0.6	0.2	53	0.39	0.073
1192336	Soil	0.6	49.4	59.7	96	<0.1	21.0	16.5	551	4.64	8.4	0.8	3.1	3.2	62	<0.1	0.6	0.5	114	0.74	0.057
1192337	Soil	1.1	34.5	21.1	59	0.1	38.7	14.8	359	3.78	11.4	1.1	1.0	5.1	50	<0.1	0.4	0.2	110	0.62	0.049
1192338	Soil	0.6	66.0	10.9	62	<0.1	30.1	16.1	471	3.44	7.9	0.6	1.5	3.0	118	<0.1	0.5	0.1	81	0.71	0.048
1192347	Soil	0.8	82.3	213.0	114	0.4	42.7	19.5	446	5.03	8.6	0.9	<0.5	8.5	42	<0.1	0.4	2.3	178	0.64	0.074
1192348	Soil	1.3	61.0	64.5	162	0.2	54.6	23.5	667	6.51	543.6	1.2	<0.5	24.3	35	0.8	1.8	0.4	97	0.67	0.124
1192349	Soil	0.7	64.0	11.2	75	<0.1	20.3	17.5	538	4.72	10.0	0.8	2.4	3.0	35	0.1	0.8	0.1	139	0.64	0.030
1192350	Soil	1.1	45.4	7.5	72	0.1	25.2	14.8	643	4.18	16.0	0.9	1.5	4.9	27	<0.1	0.6	0.2	95	0.58	0.049
1192388	Soil	0.5	6.2	3.2	12	<0.1	4.9	2.7	149	1.92	3.2	0.3	<0.5	1.5	36	<0.1	0.4	<0.1	16	0.43	0.015
1192389	Soil	0.7	20.4	8.1	49	<0.1	16.8	8.0	317	2.95	9.9	0.9	2.7	4.5	26	<0.1	0.8	0.1	49	0.28	0.030
1192390	Soil	1.0	43.0	7.6	71	<0.1	24.1	14.5	628	4.10	15.5	0.9	2.2	5.0	26	<0.1	0.5	0.2	88	0.56	0.052
1192391	Soil	0.9	11.0	11.5	46	<0.1	14.8	7.7	338	2.70	7.5	0.6	0.6	3.0	25	<0.1	1.2	0.2	47	0.34	0.024
1192392	Soil	0.9	15.2	8.5	48	<0.1	18.9	8.3	365	2.59	9.7	0.4	1.6	3.1	24	<0.1	0.6	0.1	52	0.27	0.032
1192393	Soil	0.8	21.5	18.3	46	<0.1	21.3	10.3	409	2.75	9.5	1.1	1.1	4.7	31	<0.1	0.7	0.3	53	0.42	0.032
1192394	Soil	0.8	16.2	16.8	38	<0.1	14.7	6.8	185	2.32	6.4	0.6	7.5	3.7	18	<0.1	0.6	0.1	42	0.19	0.012
1192395	Soil	0.6	24.8	12.0	49	<0.1	17.6	8.7	399	2.53	4.8	0.5	3.6	3.3	23	<0.1	0.5	0.2	51	0.39	0.024
1192396	Soil	0.8	22.4	9.7	43	<0.1	15.2	7.9	350	2.11	3.6	0.5	1.8	2.4	27	<0.1	0.4	0.1	43	0.46	0.027
1192397	Soil	0.5	21.5	8.7	44	<0.1	20.5	9.0	336	2.25	6.2	2.1	2.3	3.4	30	<0.1	0.4	0.2	49	0.51	0.046
1192398	Soil	0.8	21.5	16.9	43	<0.1	15.2	8.2	415	2.27	4.7	0.9	3.9	3.9	26	0.2	0.4	0.2	37	0.41	0.040
1192399	Soil	0.9	27.9	17.9	45	<0.1	22.0	9.2	394	2.74	7.4	1.2	6.5	3.4	30	<0.1	0.6	0.2	41	0.46	0.058
1192400	Soil	1.0	53.6	22.4	137	0.1	44.1	20.7	632	4.80	101.3	1.1	4.5	8.1	38	0.2	1.7	0.2	106	0.58	0.041
1192124	Soil	0.6	48.0	7.3	154	<0.1	18.6	20.6	752	5.07	3.9	0.6	2.2	2.2	30	<0.1	0.4	<0.1	129	0.46	0.049
1192125	Soil	0.6	29.2	52.4	151	0.2	36.8	21.0	640	5.26	5.8	0.7	1.1	9.4	20	0.2	0.3	0.3	123	0.37	0.060
1192245	Soil	0.7	35.4	10.5	130	<0.1	10.2	10.8	692	4.30	4.3	0.8	<0.5	4.7	18	0.1	0.4	0.1	71	0.42	0.049

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method Analyte	1DX15																	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1192327	Soil	14	22	0.84	388	0.038	1	2.33	0.014	0.13	<0.1	0.01	7.2	<0.1	<0.05	11	0.6	<0.2
1192328	Soil	13	31	0.48	322	0.066	2	1.47	0.016	0.06	0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1192331	Soil	10	25	0.44	217	0.075	2	1.58	0.015	0.21	0.1	0.01	6.3	<0.1	<0.05	6	<0.5	<0.2
1192332	Soil	16	22	0.50	377	0.050	1	1.93	0.015	0.28	<0.1	0.03	8.9	<0.1	<0.05	7	<0.5	<0.2
1192333	Soil	23	20	0.52	446	0.059	2	2.00	0.016	0.28	<0.1	0.08	11.2	<0.1	<0.05	9	0.7	<0.2
1192334	Soil	24	18	0.63	548	0.135	1	2.49	0.021	0.56	<0.1	0.06	11.9	0.1	<0.05	11	0.8	<0.2
1192335	Soil	14	28	0.48	382	0.053	1	1.51	0.022	0.04	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
1192336	Soil	13	22	0.90	523	0.111	<1	1.94	0.059	0.08	<0.1	0.04	10.1	<0.1	<0.05	8	0.7	<0.2
1192337	Soil	15	70	1.04	526	0.172	2	2.14	0.025	0.40	0.1	0.01	6.8	0.1	<0.05	8	<0.5	<0.2
1192338	Soil	10	45	1.31	187	0.142	1	2.18	0.025	0.13	0.1	0.02	5.2	<0.1	<0.05	7	0.5	<0.2
1192347	Soil	16	74	1.20	422	0.222	2	2.00	0.027	0.60	0.1	0.02	11.5	0.2	<0.05	12	1.0	<0.2
1192348	Soil	54	91	1.31	499	0.089	<1	2.56	0.015	0.20	<0.1	0.02	5.4	<0.1	<0.05	16	0.7	<0.2
1192349	Soil	9	25	0.78	331	0.132	<1	2.46	0.056	0.08	<0.1	<0.01	9.6	<0.1	<0.05	9	<0.5	<0.2
1192350	Soil	16	45	0.84	545	0.079	2	2.22	0.029	0.24	<0.1	0.05	10.8	0.1	<0.05	7	0.9	<0.2
1192388	Soil	8	6	0.21	208	0.012	3	1.20	0.013	0.08	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1192389	Soil	15	29	0.50	317	0.056	2	1.63	0.016	0.08	0.1	0.02	5.4	<0.1	<0.05	5	0.5	<0.2
1192390	Soil	15	44	0.77	548	0.075	2	2.18	0.028	0.25	<0.1	0.05	10.4	<0.1	<0.05	7	0.8	<0.2
1192391	Soil	8	24	0.39	293	0.043	2	1.45	0.013	0.11	<0.1	<0.01	3.7	<0.1	<0.05	4	0.6	<0.2
1192392	Soil	9	28	0.50	299	0.057	<1	1.49	0.016	0.07	0.2	0.01	2.4	<0.1	<0.05	4	0.7	<0.2
1192393	Soil	14	28	0.50	381	0.060	<1	1.65	0.024	0.05	0.1	0.02	5.0	<0.1	<0.05	5	0.6	<0.2
1192394	Soil	12	25	0.35	344	0.042	2	1.13	0.017	0.05	0.1	0.02	3.6	<0.1	<0.05	3	<0.5	<0.2
1192395	Soil	12	24	0.44	447	0.041	1	1.45	0.020	0.04	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
1192396	Soil	9	20	0.36	395	0.051	1	1.31	0.019	0.05	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
1192397	Soil	11	26	0.47	367	0.043	2	1.41	0.025	0.03	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
1192398	Soil	13	19	0.37	323	0.043	2	1.16	0.018	0.07	0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
1192399	Soil	12	24	0.44	308	0.042	2	1.18	0.026	0.04	0.2	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
1192400	Soil	20	84	1.08	589	0.046	2	2.13	0.018	0.13	<0.1	0.04	14.1	<0.1	<0.05	9	<0.5	<0.2
1192124	Soil	10	22	1.34	309	0.162	1	2.33	0.017	0.15	<0.1	<0.01	8.3	<0.1	<0.05	7	<0.5	<0.2
1192125	Soil	13	69	1.38	540	0.265	<1	2.95	0.017	1.06	0.1	<0.01	6.3	0.4	<0.05	10	<0.5	<0.2
1192245	Soil	16	13	0.57	536	0.039	2	1.85	0.020	0.32	<0.1	0.02	8.7	<0.1	<0.05	8	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1198501	Soil	0.4	61.3	104.9	81	0.1	31.5	18.8	597	3.94	2.7	0.8	4.8	3.8	34	<0.1	0.3	0.6	116	0.68	0.054
1198502	Soil	0.2	75.0	30.8	165	0.2	39.0	21.5	1034	5.09	2.3	0.9	5.1	3.9	141	0.1	0.2	0.3	146	0.93	0.102
1198503	Soil	0.5	32.3	21.1	55	0.1	24.0	11.7	430	2.86	8.4	0.6	5.5	3.9	53	<0.1	0.5	0.2	63	0.48	0.046
1198504	Soil	0.5	38.8	9.2	95	<0.1	16.4	22.7	847	5.25	4.2	0.6	2.5	3.9	487	<0.1	0.3	<0.1	132	0.97	0.060
1197521	Soil	1.0	27.3	14.1	66	0.2	25.0	11.5	375	3.32	10.2	0.5	2.9	4.2	21	0.1	0.5	0.1	80	0.36	0.028
1197522	Soil	1.3	28.4	85.9	73	0.3	23.3	16.0	874	3.57	9.0	0.5	3.4	4.3	29	0.1	0.4	0.4	77	0.29	0.045
1197523	Soil	6.4	66.0	17.0	94	0.3	34.1	8.6	172	5.12	5.1	1.2	1.6	7.2	39	0.4	0.2	0.2	97	0.15	0.085
1197524	Soil	0.6	36.7	40.2	72	<0.1	20.3	9.7	438	3.21	4.9	0.4	1.8	3.3	17	0.2	0.3	0.5	75	0.36	0.090
1197525	Soil	1.1	20.1	10.5	194	0.4	28.3	21.2	2627	3.47	2.8	0.3	1.3	2.0	32	1.9	0.3	0.1	80	0.44	0.139
1197526	Soil	1.3	18.4	13.9	159	0.3	15.4	23.6	1407	4.09	2.8	0.3	1.3	1.4	38	0.6	0.2	0.2	117	0.40	0.127
1197527	Soil	0.7	29.5	28.0	184	0.1	39.4	19.4	732	7.01	1.8	1.1	<0.5	2.0	172	<0.1	0.2	0.1	108	0.99	0.104
1197528	Soil	2.0	333.6	9.3	59	<0.1	8.3	7.2	484	10.42	2.0	2.4	2.0	4.0	56	0.1	0.2	0.2	45	0.38	0.061
1197529	Soil	0.8	23.9	7.5	51	<0.1	18.9	11.1	339	3.29	7.5	0.5	1.9	3.2	78	<0.1	0.4	0.2	98	0.39	0.035
1197530	Soil	1.2	37.5	9.1	106	0.1	43.1	15.5	718	5.93	46.0	1.4	1.3	12.8	35	0.1	0.3	0.2	123	0.62	0.119
1197531	Soil	0.3	52.8	52.5	85	<0.1	20.7	19.7	1332	4.96	6.2	0.7	2.5	7.0	154	<0.1	3.2	0.4	125	1.04	0.064
1197532	Soil	0.5	38.3	4.1	107	<0.1	27.4	26.1	913	6.10	2.2	0.7	<0.5	4.1	25	<0.1	0.3	<0.1	184	0.68	0.066
1197533	Soil	0.3	32.8	19.4	82	<0.1	29.9	17.7	783	4.37	23.9	0.7	2.8	4.3	45	0.1	0.9	0.1	114	0.61	0.054
1197534	Soil	0.7	16.2	14.7	81	<0.1	15.2	9.9	285	3.94	6.6	0.8	7.1	6.0	20	<0.1	1.2	0.1	89	0.35	0.092
1197535	Soil	0.6	69.1	310.7	85	0.2	26.2	20.1	887	4.71	4.8	1.3	1.1	5.6	106	0.2	0.5	2.2	146	0.73	0.070
1197536	Soil	0.4	113.8	5.4	71	<0.1	26.8	21.2	629	4.04	2.1	0.7	2.8	4.9	39	<0.1	0.2	<0.1	115	0.45	0.055
1197537	Soil	0.8	53.8	23.0	107	0.2	19.6	13.5	867	3.33	6.1	0.5	<0.5	2.5	54	0.1	0.4	0.1	85	0.51	0.057
1197538	Soil	0.3	44.1	439.7	77	0.6	24.4	15.9	430	3.44	3.1	0.6	2.7	2.2	84	<0.1	0.2	7.7	108	0.91	0.051
1197539	Soil	0.1	72.5	7.7	57	<0.1	25.2	17.6	573	3.08	2.2	0.2	2.1	1.3	115	<0.1	0.2	<0.1	84	0.84	0.054
1197540	Soil	0.5	178.4	74.6	107	<0.1	14.5	20.1	761	4.51	2.3	0.5	<0.5	2.8	223	<0.1	0.2	0.5	122	0.78	0.094
1197541	Soil	0.6	25.9	71.3	93	0.1	17.6	12.6	761	2.77	5.2	0.4	1.7	2.2	52	0.1	0.3	0.6	75	0.52	0.062
1197542	Soil	0.8	15.3	58.2	67	0.2	11.9	7.9	626	1.95	2.5	0.3	1.8	1.6	82	0.2	0.3	0.4	45	0.26	0.042
1197543	Soil	0.4	25.8	47.5	50	0.1	12.3	6.4	292	1.90	4.4	0.7	2.0	2.8	443	<0.1	0.4	0.3	41	0.48	0.031
1197544	Soil	0.9	22.7	42.4	66	0.2	22.1	10.7	385	2.84	9.2	0.5	1.7	4.0	27	0.1	0.5	0.3	66	0.28	0.031
1197545	Soil	0.8	32.9	26.4	66	0.4	23.2	12.8	447	2.72	5.6	0.4	<0.5	3.2	36	0.1	0.4	0.2	73	0.25	0.021
1197546	Soil	0.8	29.6	36.6	87	0.2	26.3	19.0	733	3.87	6.0	0.7	1.1	4.3	37	<0.1	0.4	0.2	105	0.56	0.054

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1198501	Soil	13	51	1.72	237	0.132	<1	2.03	0.023	0.16	<0.1	0.04	8.6	<0.1	<0.05	8	<0.5	<0.2
1198502	Soil	10	137	2.73	268	0.242	1	2.87	0.018	0.11	<0.1	0.03	11.8	<0.1	<0.05	17	<0.5	<0.2
1198503	Soil	12	29	0.67	251	0.086	1	1.46	0.020	0.07	0.2	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
1198504	Soil	12	19	1.70	416	0.317	1	3.04	0.021	0.43	<0.1	0.01	4.5	0.1	<0.05	9	<0.5	<0.2
1197521	Soil	12	43	0.62	278	0.103	1	1.97	0.016	0.09	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
1197522	Soil	11	41	0.60	238	0.084	2	2.00	0.016	0.07	0.1	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
1197523	Soil	25	59	0.69	350	0.082	<1	1.76	0.046	0.39	<0.1	<0.01	2.8	0.3	0.50	6	2.5	<0.2
1197524	Soil	7	37	0.90	304	0.136	<1	1.83	0.010	0.47	0.2	<0.01	5.2	0.2	<0.05	7	<0.5	0.3
1197525	Soil	8	29	0.57	841	0.089	1	2.16	0.019	0.21	0.1	0.02	3.9	0.1	<0.05	7	<0.5	<0.2
1197526	Soil	6	22	0.72	1154	0.143	<1	2.30	0.023	0.25	<0.1	<0.01	3.8	0.1	<0.05	8	<0.5	<0.2
1197527	Soil	15	213	1.80	2041	0.215	<1	3.36	0.017	0.19	<0.1	0.01	7.4	<0.1	<0.05	14	<0.5	<0.2
1197528	Soil	24	12	0.73	2293	0.128	<1	3.06	0.017	0.54	<0.1	<0.01	18.1	0.3	<0.05	13	3.5	<0.2
1197529	Soil	10	28	0.67	417	0.098	1	2.18	0.040	0.09	0.1	<0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
1197530	Soil	36	75	2.40	735	0.160	1	3.63	0.019	0.86	<0.1	<0.01	8.5	0.2	<0.05	13	0.9	<0.2
1197531	Soil	30	38	1.68	378	0.008	2	2.84	0.013	0.05	<0.1	0.06	12.2	<0.1	<0.05	14	<0.5	<0.2
1197532	Soil	7	62	2.41	383	0.171	2	3.07	0.018	0.36	<0.1	<0.01	16.2	0.2	<0.05	13	<0.5	<0.2
1197533	Soil	12	51	1.59	373	0.020	1	2.51	0.016	0.04	<0.1	0.06	11.0	<0.1	<0.05	10	<0.5	<0.2
1197534	Soil	9	26	0.39	175	0.035	2	1.72	0.011	0.05	0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
1197535	Soil	10	59	1.57	137	0.189	2	2.60	0.022	0.06	<0.1	<0.01	7.6	<0.1	<0.05	11	<0.5	<0.2
1197536	Soil	19	56	1.78	204	0.197	<1	2.25	0.016	0.41	<0.1	<0.01	4.9	0.2	<0.05	9	<0.5	<0.2
1197537	Soil	6	42	0.90	288	0.101	<1	2.10	0.016	0.06	<0.1	0.01	3.8	<0.1	<0.05	9	<0.5	<0.2
1197538	Soil	11	46	1.41	196	0.142	<1	2.59	0.034	0.07	<0.1	0.02	7.5	<0.1	<0.05	8	<0.5	<0.2
1197539	Soil	4	67	1.54	276	0.107	<1	1.97	0.036	0.14	<0.1	<0.01	7.1	<0.1	<0.05	6	<0.5	<0.2
1197540	Soil	8	31	1.49	350	0.165	<1	2.23	0.021	0.18	<0.1	<0.01	7.5	<0.1	<0.05	8	<0.5	<0.2
1197541	Soil	6	33	0.74	311	0.079	2	1.76	0.016	0.11	<0.1	<0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
1197542	Soil	5	22	0.34	410	0.029	1	1.13	0.011	0.07	0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1197543	Soil	7	21	0.47	697	0.038	2	1.55	0.017	0.12	<0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
1197544	Soil	9	39	0.62	252	0.068	2	1.69	0.016	0.06	0.1	0.01	3.9	<0.1	<0.05	6	<0.5	<0.2
1197545	Soil	8	43	1.01	252	0.092	1	1.82	0.012	0.04	0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
1197546	Soil	9	54	1.23	264	0.113	2	2.09	0.014	0.06	0.1	<0.01	7.0	<0.1	<0.05	9	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197547	Soil	0.7	32.1	7.0	81	<0.1	13.0	9.9	436	3.24	5.8	0.5	1.7	2.2	147	<0.1	0.3	<0.1	57	0.50	0.056
1197548	Soil	0.8	34.1	11.2	82	<0.1	28.3	14.9	556	3.45	9.0	0.8	1.0	3.7	57	0.1	0.6	0.2	87	0.48	0.053
1197549	Soil	0.4	36.6	11.1	67	<0.1	22.6	18.3	677	3.53	1.6	0.8	1.0	2.1	142	0.1	0.4	<0.1	83	6.36	0.054
1197550	Soil	1.9	323.1	11.3	63	<0.1	8.0	9.2	564	9.53	2.1	2.8	1.4	4.6	59	0.1	0.2	0.3	47	0.34	0.055
1197751	Soil	1.2	46.1	31.0	66	0.1	37.1	12.2	366	3.08	15.1	0.8	6.8	6.9	38	<0.1	0.6	0.2	67	0.48	0.039
1197753	Soil	1.2	28.8	21.9	74	0.2	25.8	12.1	580	3.29	9.8	0.8	2.3	4.8	39	<0.1	0.6	0.2	65	0.45	0.041
1197758	Soil	1.5	30.1	11.8	67	0.1	23.9	10.3	401	2.81	11.6	1.7	1.9	3.0	65	0.2	0.6	0.2	63	0.80	0.054
1197759	Soil	0.8	25.0	55.1	75	0.2	18.2	13.3	602	3.60	8.0	0.6	2.6	2.2	51	0.1	0.6	0.6	93	0.74	0.058
1197760	Soil	1.6	31.5	62.0	87	0.6	39.7	13.3	399	3.21	11.5	0.7	1.4	4.0	48	0.2	0.6	0.3	86	0.49	0.040
1197761	Soil	1.9	68.9	8.2	104	<0.1	47.7	19.4	751	5.28	11.2	2.7	1.2	12.2	50	<0.1	0.4	0.2	116	0.43	0.070
1197762	Soil	0.9	41.9	12.7	99	0.1	51.7	20.1	675	4.08	9.0	0.4	0.8	3.5	33	<0.1	0.6	0.2	114	0.56	0.030
1197763	Soil	1.0	24.1	32.7	77	0.2	20.8	11.9	546	3.15	10.1	0.7	2.2	3.5	47	0.1	0.8	0.2	76	0.39	0.034
1197764	Soil	0.8	22.7	71.8	168	0.2	17.1	12.9	902	3.18	4.7	0.6	<0.5	2.2	104	0.6	0.5	0.7	65	0.73	0.076
1197765	Soil	1.1	43.1	13.1	86	0.2	23.5	12.5	705	3.43	8.2	1.1	<0.5	5.3	106	0.1	1.6	0.2	67	0.60	0.070
1197766	Soil	0.8	18.2	45.4	70	0.1	11.0	7.6	410	2.69	5.5	0.5	<0.5	2.6	48	0.1	0.5	0.4	37	0.50	0.097
1197768	Soil	0.8	33.2	13.0	61	0.1	27.7	10.8	286	2.65	10.3	0.7	3.3	2.9	70	0.2	0.7	0.2	59	1.62	0.056
1197769	Soil	0.8	24.3	15.0	74	0.1	22.3	10.6	401	2.47	9.1	0.6	1.9	6.1	30	0.1	0.5	0.2	53	0.41	0.047
1197770	Soil	0.8	29.0	11.6	64	<0.1	26.8	11.1	432	2.74	13.0	0.7	2.1	4.6	35	<0.1	0.7	0.2	56	0.46	0.045
1197771	Soil	1.3	32.1	17.8	48	0.2	20.9	14.3	641	2.92	9.1	0.6	4.0	2.8	52	0.1	0.7	0.2	44	0.59	0.032
1197772	Soil	1.7	73.7	8.2	117	<0.1	64.8	24.9	906	5.95	14.5	3.2	2.1	16.4	49	<0.1	0.4	0.2	126	0.52	0.084
1197773	Soil	0.9	39.5	55.8	75	0.2	26.2	12.0	678	3.63	8.9	0.9	3.8	4.0	49	<0.1	1.4	0.4	75	0.61	0.026
1197774	Soil	0.8	17.3	13.4	56	<0.1	14.6	14.1	304	4.61	7.3	0.7	0.6	4.0	21	<0.1	0.4	0.1	57	0.16	0.020
1197775	Soil	1.0	21.9	10.9	57	0.1	15.5	11.1	570	3.38	5.2	0.6	<0.5	3.1	129	<0.1	0.4	0.1	61	0.48	0.091
1197776	Soil	1.1	78.1	9.8	127	<0.1	26.8	21.9	610	6.19	2.7	1.8	2.5	5.7	188	0.1	0.3	0.1	139	0.62	0.070
1198002	Soil	1.0	67.0	8.6	97	0.2	44.7	19.3	447	5.39	33.1	1.2	0.8	5.8	59	0.2	0.7	0.2	167	0.63	0.070
1198003	Soil	1.2	58.1	8.6	92	0.2	43.3	15.1	407	4.29	29.7	1.0	0.7	5.8	42	0.1	0.8	0.1	124	0.46	0.065
1198009	Soil	0.8	32.9	11.7	60	0.1	25.9	11.2	380	2.85	11.0	0.8	3.9	4.1	37	<0.1	0.6	0.2	67	0.40	0.068
1198010	Soil	0.9	13.4	31.6	59	0.2	16.7	9.6	400	2.97	8.4	0.7	<0.5	3.4	170	0.1	1.3	0.7	44	0.59	0.054
1198011	Soil	1.0	15.8	9.0	63	<0.1	18.4	10.4	527	3.05	8.9	0.6	0.6	3.3	31	0.1	0.5	0.1	60	0.29	0.049
1198012	Soil	1.1	13.8	8.6	49	<0.1	16.6	9.5	631	2.59	6.8	0.3	1.7	2.3	27	0.1	0.5	0.1	58	0.27	0.031

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1197547	Soil	5	28	0.77	464	0.063	<1	1.76	0.012	0.08	<0.1	<0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
1197548	Soil	11	42	0.88	278	0.109	2	1.85	0.017	0.10	0.1	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
1197549	Soil	8	38	1.36	505	0.042	2	1.93	0.030	0.12	<0.1	<0.01	8.5	<0.1	<0.05	7	<0.5	<0.2
1197550	Soil	27	10	0.79	1600	0.146	<1	2.68	0.014	0.66	<0.1	<0.01	17.9	0.3	<0.05	13	2.0	<0.2
1197751	Soil	26	63	0.79	258	0.087	<1	1.57	0.019	0.10	0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
1197753	Soil	17	44	0.57	347	0.071	2	1.86	0.012	0.15	0.1	0.02	6.4	<0.1	<0.05	6	<0.5	<0.2
1197758	Soil	13	29	0.66	357	0.077	3	1.50	0.037	0.05	0.2	0.02	4.3	<0.1	<0.05	5	0.6	<0.2
1197759	Soil	8	37	0.68	539	0.062	2	2.09	0.015	0.14	0.1	0.01	8.0	<0.1	<0.05	8	<0.5	<0.2
1197760	Soil	12	79	0.76	719	0.066	2	1.92	0.010	0.07	0.2	<0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
1197761	Soil	31	63	1.74	499	0.093	1	2.85	0.015	0.41	<0.1	0.01	8.2	0.2	<0.05	11	0.8	<0.2
1197762	Soil	12	111	1.57	378	0.060	2	2.24	0.018	0.11	0.1	0.01	11.1	<0.1	<0.05	7	<0.5	<0.2
1197763	Soil	12	34	0.55	339	0.060	2	1.90	0.012	0.09	0.1	0.01	6.3	<0.1	<0.05	6	<0.5	<0.2
1197764	Soil	8	30	0.64	490	0.061	3	1.93	0.013	0.22	0.1	0.03	6.0	<0.1	<0.05	6	<0.5	<0.2
1197765	Soil	22	31	0.57	305	0.038	3	1.87	0.011	0.10	0.1	<0.01	6.5	<0.1	<0.05	7	<0.5	<0.2
1197766	Soil	7	18	0.37	478	0.039	<1	1.46	0.011	0.15	<0.1	<0.01	7.0	<0.1	<0.05	7	<0.5	<0.2
1197768	Soil	11	30	0.72	331	0.073	2	1.57	0.040	0.05	0.2	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
1197769	Soil	12	32	0.53	318	0.069	1	1.53	0.013	0.16	0.1	<0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
1197770	Soil	16	31	0.55	278	0.070	1	1.42	0.018	0.07	0.1	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
1197771	Soil	15	26	0.41	519	0.040	<1	1.93	0.015	0.09	<0.1	0.03	5.2	<0.1	<0.05	6	<0.5	<0.2
1197772	Soil	36	79	2.06	556	0.084	<1	3.33	0.016	0.33	<0.1	0.02	8.6	0.1	<0.05	12	<0.5	<0.2
1197773	Soil	19	25	0.73	567	0.025	2	2.03	0.014	0.08	0.1	0.09	7.3	<0.1	<0.05	7	0.5	<0.2
1197774	Soil	13	24	0.78	932	0.209	<1	2.38	0.013	0.60	<0.1	<0.01	10.8	0.2	<0.05	9	<0.5	<0.2
1197775	Soil	10	26	0.51	478	0.055	<1	1.68	0.019	0.13	0.1	<0.01	5.6	<0.1	<0.05	6	<0.5	<0.2
1197776	Soil	37	54	1.49	1086	0.202	<1	2.84	0.026	0.56	<0.1	0.02	12.4	0.2	<0.05	10	0.5	<0.2
1198002	Soil	20	58	1.08	844	0.082	1	2.94	0.017	0.26	<0.1	0.02	13.2	0.1	<0.05	11	<0.5	<0.2
1198003	Soil	17	63	0.93	721	0.082	<1	2.46	0.013	0.27	<0.1	<0.01	9.0	<0.1	<0.05	9	<0.5	<0.2
1198009	Soil	12	38	0.60	244	0.075	<1	1.60	0.017	0.06	0.1	0.02	5.7	<0.1	<0.05	5	<0.5	<0.2
1198010	Soil	11	26	0.57	334	0.057	<1	1.85	0.011	0.12	0.1	0.01	4.6	<0.1	<0.05	7	<0.5	<0.2
1198011	Soil	10	31	0.56	649	0.073	1	1.75	0.014	0.13	0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
1198012	Soil	7	29	0.48	486	0.057	<1	1.70	0.013	0.05	0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN11002506.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1198013	Soil	1.3	20.3	11.8	125	<0.1	8.5	9.3	520	6.19	5.7	0.8	4.0	5.5	27	<0.1	0.3	0.1	43	0.22	0.022
1192494	Soil	0.8	52.5	7.1	56	<0.1	18.7	12.6	532	2.64	6.9	0.3	1.0	2.0	23	<0.1	0.5	0.1	62	0.30	0.029
1192495	Soil	0.9	54.5	74.9	84	<0.1	16.4	14.4	647	4.24	7.3	0.5	<0.5	3.6	21	0.1	0.4	0.5	107	0.26	0.039
1196393	Soil	1.1	41.4	19.6	139	0.1	42.3	17.9	744	4.81	32.3	1.3	0.6	15.3	44	0.2	0.7	0.2	84	0.41	0.076
1196394	Soil	0.8	35.0	18.5	83	0.1	33.4	13.2	398	3.98	14.4	1.5	1.5	13.3	33	<0.1	0.5	0.2	75	0.37	0.046
1196395	Soil	2.1	56.4	915.6	197	0.7	50.0	12.3	427	3.71	24.4	1.2	1.5	5.8	42	0.5	1.3	9.5	210	0.48	0.076
1197554	Soil	0.6	37.9	7.9	65	<0.1	24.4	14.1	343	3.94	8.6	0.4	<0.5	3.2	33	<0.1	0.5	0.1	95	0.23	0.040
1197555	Soil	0.6	16.3	4.7	123	<0.1	7.9	10.2	586	5.25	4.2	0.6	<0.5	2.3	29	0.1	0.4	<0.1	92	0.19	0.016
1197556	Soil	0.7	39.9	4.6	66	<0.1	12.1	11.9	252	3.82	4.6	0.4	<0.5	2.0	19	<0.1	0.2	<0.1	117	0.32	0.050
1197557	Soil	0.7	31.8	8.0	52	<0.1	23.2	11.6	274	2.97	9.7	0.6	2.3	4.0	17	<0.1	0.7	0.1	74	0.17	0.020
1197558	Soil	1.2	27.1	11.0	58	<0.1	24.3	9.9	305	2.98	9.2	1.0	0.9	4.5	20	<0.1	0.8	0.3	70	0.15	0.017
1197559	Soil	0.1	8.7	1.2	12	<0.1	23.4	11.6	188	2.33	2.0	0.2	<0.5	1.1	189	<0.1	<0.1	<0.1	59	0.54	0.112
1197560	Soil	0.4	21.3	5.2	37	<0.1	18.6	10.6	432	2.51	6.4	0.3	<0.5	2.1	41	<0.1	0.3	0.1	70	0.31	0.041
1197561	Soil	0.3	23.5	3.2	24	<0.1	15.9	9.9	246	1.59	3.1	0.1	<0.5	0.6	106	<0.1	0.2	<0.1	36	0.39	0.045
1197562	Soil	<0.1	10.8	1.2	13	<0.1	10.6	8.7	162	1.44	2.0	0.1	0.6	0.7	16	<0.1	<0.1	<0.1	42	0.30	0.034
1197568	Soil	0.8	21.0	7.8	56	<0.1	20.2	11.0	308	3.30	10.5	0.5	3.3	4.0	26	<0.1	0.5	0.1	77	0.26	0.062
1197569	Soil	0.5	20.2	6.5	53	<0.1	22.1	14.2	275	4.43	6.5	1.2	<0.5	7.0	97	<0.1	0.5	0.1	126	0.17	0.020
1197578	Soil	0.4	8.2	56.4	89	<0.1	4.1	7.9	353	2.09	2.1	0.6	<0.5	2.4	17	0.1	0.2	0.9	30	0.11	0.022
1197579	Soil	0.6	48.4	24.4	93	<0.1	11.9	11.4	418	3.43	4.9	1.2	2.5	4.4	81	0.1	0.3	0.1	65	0.20	0.016
1197580	Soil	0.7	13.9	21.5	110	0.1	15.1	7.1	1077	3.41	6.4	0.4	3.5	3.1	17	<0.1	0.3	0.2	44	0.15	0.037
1196765	Soil	0.7	27.0	10.5	74	<0.1	19.0	9.5	419	3.34	7.7	0.7	1.8	4.3	29	<0.1	0.4	0.1	61	0.37	0.069
1196766	Soil	0.6	13.3	17.6	59	<0.1	16.5	8.6	613	2.63	5.8	0.5	0.6	2.6	27	0.1	0.4	0.2	53	0.19	0.044
1196794	Soil	0.3	8.0	67.3	94	<0.1	4.5	7.3	330	2.09	2.0	0.6	<0.5	2.9	18	<0.1	0.2	0.7	33	0.14	0.024
1196795	Soil	0.4	19.4	14.0	59	<0.1	11.2	5.4	391	2.58	6.0	2.0	2.6	8.7	146	<0.1	0.4	0.3	32	0.20	0.014
1196796	Soil	0.6	19.9	12.3	56	<0.1	14.2	6.9	350	2.66	7.0	1.7	3.3	8.7	101	<0.1	0.4	0.2	38	0.19	0.015
1196797	Soil	0.6	27.9	10.8	62	<0.1	16.1	7.9	509	2.85	7.8	1.2	2.9	7.7	27	<0.1	0.4	0.1	46	0.28	0.030
1196798	Soil	0.9	46.4	7.0	53	<0.1	20.8	11.3	327	2.87	8.1	0.3	0.9	2.0	16	<0.1	0.4	0.1	80	0.22	0.024
1196799	Soil	1.1	19.2	21.7	103	<0.1	19.3	8.2	650	3.88	9.2	0.4	1.2	3.1	20	0.2	0.6	0.3	63	0.23	0.037
1196800	Soil	7.5	29.2	4.4	149	<0.1	16.1	21.9	3794	7.74	8.8	1.0	1.3	3.6	26	<0.1	0.4	<0.1	129	0.62	0.170
1197601	Soil	0.6	10.7	7.0	83	<0.1	6.7	12.4	802	4.19	3.3	2.0	1.8	28.2	44	<0.1	0.4	<0.1	64	0.16	0.015

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1198013	Soil	10	13	0.71	694	0.171	2	2.54	0.013	0.59	<0.1	<0.01	9.1	0.2	<0.05	14	0.7	<0.2
1192494	Soil	6	26	0.67	317	0.057	1	1.61	0.016	0.06	0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1192495	Soil	7	30	0.88	379	0.120	2	2.20	0.014	0.35	<0.1	0.02	6.9	0.1	<0.05	7	0.7	<0.2
1196393	Soil	35	76	1.17	363	0.212	2	2.51	0.011	0.83	0.1	<0.01	8.8	0.3	<0.05	13	0.7	<0.2
1196394	Soil	19	59	0.85	294	0.148	3	1.97	0.012	0.27	0.1	0.02	8.3	<0.1	<0.05	9	1.0	<0.2
1196395	Soil	16	75	0.85	422	0.077	2	1.90	0.011	0.15	0.2	0.01	8.3	<0.1	<0.05	7	1.4	<0.2
1197554	Soil	8	33	0.84	260	0.131	3	2.69	0.017	0.08	0.1	<0.01	3.5	<0.1	<0.05	7	<0.5	<0.2
1197555	Soil	13	11	0.88	270	0.167	2	2.62	0.009	0.28	0.3	<0.01	8.6	0.1	<0.05	10	1.0	<0.2
1197556	Soil	7	16	0.77	167	0.161	1	1.99	0.020	0.06	<0.1	<0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
1197557	Soil	10	35	0.55	206	0.088	2	2.05	0.012	0.04	<0.1	<0.01	3.5	<0.1	<0.05	5	0.7	<0.2
1197558	Soil	14	38	0.52	276	0.075	1	2.08	0.009	0.04	0.1	0.02	5.5	0.1	<0.05	6	0.5	<0.2
1197559	Soil	6	59	0.79	229	0.131	<1	1.83	0.031	0.22	<0.1	<0.01	2.6	0.1	<0.05	5	<0.5	<0.2
1197560	Soil	6	35	0.67	185	0.101	2	2.02	0.023	0.05	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
1197561	Soil	2	29	0.54	116	0.051	<1	1.30	0.023	0.05	0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1197562	Soil	3	27	0.64	56	0.082	2	1.26	0.021	0.03	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1197568	Soil	7	34	0.61	174	0.098	1	2.33	0.015	0.07	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
1197569	Soil	26	37	0.89	260	0.120	2	2.71	0.016	0.07	<0.1	<0.01	7.7	<0.1	<0.05	9	<0.5	0.4
1197578	Soil	6	9	0.34	83	0.018	<1	1.43	0.007	0.13	<0.1	0.01	2.7	<0.1	<0.05	6	0.5	<0.2
1197579	Soil	21	21	0.78	362	0.133	<1	1.77	0.013	0.44	<0.1	<0.01	9.8	0.2	<0.05	7	0.7	<0.2
1197580	Soil	7	20	0.56	349	0.125	3	2.05	0.010	0.38	<0.1	0.01	8.9	0.1	<0.05	8	0.5	0.2
1196765	Soil	13	28	0.74	188	0.135	<1	1.91	0.012	0.40	<0.1	<0.01	5.8	0.1	<0.05	6	<0.5	<0.2
1196766	Soil	12	26	0.47	317	0.073	<1	1.58	0.011	0.16	0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
1196794	Soil	8	9	0.35	90	0.020	2	1.50	0.008	0.14	<0.1	<0.01	2.8	<0.1	<0.05	6	0.6	<0.2
1196795	Soil	33	17	0.40	260	0.049	1	1.70	0.008	0.14	<0.1	0.03	6.4	0.2	<0.05	5	0.8	<0.2
1196796	Soil	30	23	0.43	238	0.052	<1	1.69	0.009	0.12	<0.1	0.03	6.2	0.1	<0.05	5	0.7	<0.2
1196797	Soil	26	28	0.56	204	0.073	1	1.85	0.011	0.16	<0.1	0.04	6.8	0.1	<0.05	6	<0.5	<0.2
1196798	Soil	7	28	0.78	177	0.075	1	2.10	0.012	0.08	0.2	<0.01	3.7	<0.1	<0.05	6	0.6	<0.2
1196799	Soil	8	29	0.60	247	0.071	1	2.44	0.008	0.13	0.2	0.02	6.4	<0.1	<0.05	8	<0.5	<0.2
1196800	Soil	24	16	0.41	305	0.036	<1	1.29	0.009	0.05	0.6	0.04	18.6	<0.1	<0.05	7	0.9	<0.2
1197601	Soil	37	11	1.00	132	0.143	<1	2.89	0.010	0.70	<0.1	0.02	4.7	0.4	<0.05	9	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197602	Soil	0.5	9.2	10.0	120	<0.1	10.1	10.9	629	3.23	5.7	0.8	1.6	12.2	25	0.1	0.4	<0.1	55	0.23	0.023
1197603	Soil	0.7	9.4	6.9	85	<0.1	9.6	10.3	684	3.43	6.2	0.7	1.5	10.7	13	<0.1	0.3	0.1	56	0.15	0.035
1197604	Soil	0.3	9.9	7.3	70	<0.1	5.6	15.1	770	5.04	1.9	1.6	<0.5	15.7	29	<0.1	0.2	<0.1	127	0.30	0.032
1197605	Soil	0.3	15.9	3.5	91	<0.1	8.2	17.0	973	4.11	3.2	0.3	<0.5	5.6	51	<0.1	0.1	<0.1	96	0.41	0.058
1197606	Soil	0.9	10.5	7.9	65	<0.1	12.7	12.4	668	3.44	5.6	0.3	<0.5	3.3	23	<0.1	0.4	0.1	82	0.24	0.044
1197607	Soil	0.3	21.9	3.4	75	<0.1	8.8	17.0	818	4.63	3.1	0.8	1.0	11.2	32	<0.1	0.3	<0.1	109	0.27	0.024
1197608	Soil	0.3	24.5	3.6	84	<0.1	9.3	17.8	850	4.67	2.6	0.6	<0.5	8.6	31	<0.1	0.2	<0.1	105	0.36	0.042
1197609	Soil	0.8	10.5	10.5	30	0.1	11.3	5.7	167	2.31	6.3	0.4	<0.5	2.5	13	<0.1	0.4	0.2	62	0.13	0.022
1197610	Soil	0.8	21.8	8.5	49	<0.1	20.7	10.0	376	3.15	10.5	0.4	3.6	3.6	16	<0.1	0.6	0.1	66	0.15	0.019
1197611	Soil	0.6	11.9	5.3	69	<0.1	6.5	14.7	730	5.35	5.3	1.6	1.5	11.3	37	<0.1	2.5	<0.1	102	0.37	0.022
1197612	Soil	0.5	14.6	6.2	52	<0.1	11.0	14.3	491	4.18	3.9	1.7	1.1	10.0	19	<0.1	0.5	<0.1	112	0.19	0.013
1197613	Soil	1.8	38.2	6.2	44	<0.1	8.8	10.8	328	3.15	4.7	2.0	0.9	9.6	16	<0.1	0.7	0.1	95	0.23	0.021
1197614	Soil	0.9	63.8	3.6	34	<0.1	5.6	8.7	353	3.06	2.2	0.8	0.8	11.3	20	<0.1	0.3	<0.1	67	0.23	0.008
1197615	Soil	1.0	37.4	9.6	54	<0.1	25.1	10.3	287	3.17	9.4	0.7	4.7	4.9	33	<0.1	0.6	0.2	72	0.33	0.014
1197616	Soil	0.7	62.9	4.5	48	<0.1	12.3	12.2	548	3.67	4.8	0.8	<0.5	5.7	81	<0.1	0.2	<0.1	92	0.35	0.028
1197617	Soil	0.5	34.9	10.4	49	<0.1	12.0	9.2	471	2.66	6.2	0.6	2.6	4.6	26	<0.1	0.4	0.1	54	0.13	0.009
1197618	Soil	0.4	38.2	10.8	53	<0.1	10.6	10.2	766	2.69	6.1	0.6	2.8	4.5	30	<0.1	0.4	<0.1	55	0.13	0.011
1197619	Soil	0.3	36.0	7.3	52	<0.1	13.4	11.3	445	3.30	4.4	0.7	1.2	5.7	36	<0.1	0.3	<0.1	80	0.34	0.021
1197621	Soil	0.9	40.8	9.8	66	<0.1	28.8	10.8	344	3.27	11.0	0.7	7.0	5.1	34	<0.1	0.7	0.2	74	0.33	0.020
1197622	Soil	0.5	45.6	6.0	44	<0.1	13.4	12.5	386	2.87	4.9	0.8	<0.5	6.4	30	<0.1	0.3	<0.1	57	0.22	0.019
1197623	Soil	1.0	21.6	9.5	40	0.1	18.9	7.4	225	2.71	7.5	0.7	1.2	3.9	22	<0.1	0.4	0.2	64	0.21	0.018
1197624	Soil	0.7	9.9	6.3	72	<0.1	7.2	11.1	710	4.57	8.0	0.3	<0.5	1.9	16	<0.1	0.4	<0.1	76	0.21	0.041
1197625	Soil	0.5	15.1	3.7	67	<0.1	10.1	13.1	716	4.86	9.8	1.0	<0.5	6.4	25	<0.1	0.4	<0.1	88	0.34	0.061
1197626	Soil	0.3	31.3	3.8	89	<0.1	8.6	21.0	840	4.94	1.8	0.8	<0.5	11.2	30	<0.1	0.2	<0.1	109	0.36	0.056
1197627	Soil	0.5	19.6	6.9	53	<0.1	16.0	10.6	445	2.76	5.4	0.7	12.2	4.6	41	<0.1	0.5	0.1	72	0.32	0.020
1197628	Soil	0.7	23.8	10.0	53	<0.1	18.8	9.5	293	2.89	10.4	0.8	1.8	6.1	18	<0.1	0.7	0.2	74	0.15	0.017
1197629	Soil	0.6	17.8	8.8	64	<0.1	14.7	13.5	558	3.74	6.0	0.6	0.8	6.6	17	<0.1	0.5	0.1	87	0.19	0.018
1197630	Soil	0.4	7.8	8.0	61	<0.1	9.2	9.7	1057	3.35	4.2	1.5	1.7	11.0	35	<0.1	0.6	0.1	66	0.59	0.074
1197631	Soil	0.5	24.5	7.9	65	<0.1	27.2	12.2	443	2.47	6.8	0.4	0.9	3.8	21	<0.1	0.5	0.2	69	0.25	0.037
1197632	Soil	0.4	16.2	4.9	94	<0.1	11.7	16.2	792	4.80	4.6	0.6	<0.5	8.0	13	<0.1	0.3	<0.1	117	0.17	0.040

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.001	0.01	0.001	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197602	Soil	24	17	0.81	136	0.140	<1	2.73	0.011	0.56	<0.1	0.02	2.0	0.5	<0.05	7	<0.5	<0.2
1197603	Soil	7	17	0.81	149	0.122	<1	3.20	0.008	0.68	<0.1	<0.01	1.7	0.4	<0.05	8	<0.5	<0.2
1197604	Soil	43	12	1.68	246	0.178	<1	2.82	0.009	1.05	0.1	<0.01	6.7	0.3	<0.05	8	<0.5	<0.2
1197605	Soil	7	13	1.67	258	0.293	<1	3.18	0.010	1.23	<0.1	<0.01	1.0	0.4	<0.05	9	<0.5	<0.2
1197606	Soil	6	22	0.85	230	0.147	<1	2.27	0.009	0.46	0.1	<0.01	1.5	0.2	<0.05	7	<0.5	<0.2
1197607	Soil	26	14	1.66	208	0.250	<1	2.91	0.009	0.96	<0.1	0.01	4.4	0.4	<0.05	9	<0.5	<0.2
1197608	Soil	28	14	1.79	253	0.263	<1	2.97	0.010	1.11	0.5	0.01	2.0	0.4	<0.05	8	<0.5	<0.2
1197609	Soil	8	23	0.27	216	0.066	<1	1.40	0.007	0.04	<0.1	0.02	1.7	0.1	<0.05	7	<0.5	<0.2
1197610	Soil	9	34	0.61	198	0.094	<1	2.07	0.008	0.07	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1197611	Soil	23	10	1.33	345	0.091	<1	2.58	0.012	0.93	0.9	0.05	6.6	0.2	<0.05	8	<0.5	<0.2
1197612	Soil	19	18	1.17	152	0.142	<1	2.66	0.007	0.44	0.3	0.02	6.0	0.2	<0.05	8	<0.5	<0.2
1197613	Soil	27	34	0.74	134	0.064	<1	1.59	0.006	0.16	0.5	0.04	6.2	0.1	<0.05	5	<0.5	<0.2
1197614	Soil	23	11	0.85	100	0.067	<1	2.73	0.006	0.16	<0.1	0.02	4.0	0.2	<0.05	7	<0.5	<0.2
1197615	Soil	17	43	0.56	314	0.098	<1	2.24	0.014	0.05	0.1	0.06	6.5	<0.1	<0.05	6	<0.5	<0.2
1197616	Soil	13	20	1.15	208	0.163	<1	2.41	0.010	0.69	0.1	0.01	4.1	0.3	<0.05	8	<0.5	<0.2
1197617	Soil	6	21	0.46	112	0.082	<1	1.74	0.008	0.15	<0.1	0.05	3.8	0.1	<0.05	5	<0.5	<0.2
1197618	Soil	5	17	0.47	107	0.086	<1	1.79	0.008	0.20	0.1	0.06	4.0	0.2	<0.05	5	<0.5	<0.2
1197619	Soil	17	20	1.09	194	0.154	<1	2.28	0.011	0.49	<0.1	0.03	3.7	0.3	<0.05	6	<0.5	<0.2
1197621	Soil	16	45	0.66	311	0.107	<1	1.98	0.017	0.06	0.1	0.08	7.1	<0.1	<0.05	5	<0.5	<0.2
1197622	Soil	7	18	0.73	165	0.114	<1	2.33	0.008	0.26	<0.1	0.02	1.8	0.2	<0.05	6	<0.5	<0.2
1197623	Soil	12	33	0.46	266	0.063	<1	1.84	0.009	0.04	0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
1197624	Soil	3	11	1.21	192	0.206	<1	2.81	0.014	0.51	0.1	<0.01	5.8	0.3	<0.05	10	<0.5	<0.2
1197625	Soil	16	18	1.09	303	0.177	<1	2.60	0.012	0.55	0.1	0.02	8.1	0.2	<0.05	9	<0.5	<0.2
1197626	Soil	25	14	1.86	258	0.269	<1	3.22	0.010	1.35	<0.1	<0.01	2.6	0.5	<0.05	8	<0.5	<0.2
1197627	Soil	16	25	0.74	274	0.142	<1	1.64	0.018	0.17	0.1	0.03	5.0	<0.1	0.12	5	0.6	<0.2
1197628	Soil	16	33	0.56	216	0.085	2	2.07	0.009	0.05	0.1	0.02	4.2	<0.1	0.09	5	<0.5	<0.2
1197629	Soil	15	24	1.06	205	0.164	1	2.58	0.010	0.53	<0.1	0.02	2.6	0.2	0.07	7	<0.5	<0.2
1197630	Soil	26	9	0.76	181	0.012	2	1.47	0.006	0.10	0.1	0.03	6.7	<0.1	<0.05	5	<0.5	<0.2
1197631	Soil	7	40	0.85	177	0.099	2	2.04	0.011	0.10	<0.1	0.01	2.8	0.1	<0.05	6	<0.5	<0.2
1197632	Soil	12	19	1.71	218	0.260	1	3.16	0.014	1.32	<0.1	0.03	2.7	0.3	<0.05	8	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1197633	Soil	0.8	17.5	10.0	83	<0.1	16.8	10.6	435	3.30	9.2	0.6	1.3	7.7	19	<0.1	0.6	0.2	67	0.15	0.029
1197634	Soil	0.4	15.3	7.0	77	<0.1	11.1	9.0	566	3.20	5.5	1.1	2.2	29.9	75	<0.1	0.6	0.1	56	0.54	0.018
1197635	Soil	0.5	14.1	6.7	88	<0.1	8.7	10.7	706	3.95	3.6	1.6	1.8	22.7	97	<0.1	0.5	0.1	73	0.34	0.023
1196547	Soil	0.7	28.6	6.3	55	<0.1	19.0	13.0	444	2.89	5.2	0.5	2.4	2.8	22	<0.1	0.5	0.1	79	0.43	0.060
1196548	Soil	0.6	58.5	5.4	76	<0.1	30.1	19.1	636	3.90	4.9	0.8	3.2	4.0	37	<0.1	0.4	<0.1	103	0.67	0.065
1196550	Soil	0.7	31.8	8.5	45	<0.1	26.2	9.9	367	2.47	10.8	0.4	7.4	4.4	24	0.1	0.8	0.2	59	0.38	0.025
1196551	Soil	0.9	43.5	4.8	93	<0.1	31.7	19.9	526	3.67	6.8	0.6	<0.5	3.9	50	<0.1	0.3	<0.1	95	0.59	0.054
1196860	Soil	2.3	12.9	8.3	48	<0.1	14.9	8.9	629	2.78	6.0	0.4	2.8	3.3	34	0.1	0.5	0.1	60	0.45	0.028
1196861	Soil	1.4	25.3	7.9	60	<0.1	19.5	12.5	638	3.11	6.6	0.6	<0.5	2.9	21	0.1	0.5	0.1	77	0.48	0.028
1196862	Soil	2.0	31.4	9.5	66	<0.1	23.3	16.6	424	3.47	4.2	0.6	<0.5	3.4	28	<0.1	0.4	0.3	93	0.41	0.043
1196863	Soil	0.5	43.4	4.4	55	<0.1	21.5	15.9	407	3.72	4.8	0.8	<0.5	3.6	30	<0.1	0.3	<0.1	103	0.58	0.053
1196864	Soil	0.6	57.3	6.4	59	<0.1	21.9	17.6	393	3.53	5.2	0.4	0.6	2.2	49	<0.1	0.7	<0.1	96	0.57	0.043
1196865	Soil	0.3	38.1	4.1	58	<0.1	25.0	18.3	584	3.60	3.2	0.7	<0.5	6.5	35	<0.1	0.3	<0.1	110	0.59	0.097
1196866	Soil	0.6	33.1	16.0	60	<0.1	22.7	15.5	517	3.30	6.3	0.6	0.6	4.0	64	<0.1	0.5	0.2	90	0.78	0.045
1196867	Soil	0.7	23.5	4.0	90	<0.1	26.7	20.8	524	3.77	2.9	0.3	1.2	1.3	38	<0.1	0.3	<0.1	94	0.55	0.047
1196868	Soil	0.6	62.0	150.1	52	0.2	17.4	14.8	427	3.64	3.1	0.8	<0.5	4.4	50	0.1	0.3	0.5	106	0.66	0.128
1196869	Soil	0.3	44.0	33.7	87	<0.1	18.4	19.4	663	4.90	2.5	0.7	1.0	4.6	29	<0.1	0.3	<0.1	145	0.43	0.063
1196870	Soil	0.7	23.3	44.8	67	<0.1	25.0	10.4	449	3.24	8.0	0.7	1.5	4.7	27	<0.1	0.6	0.5	90	0.30	0.037
1196871	Soil	1.2	11.3	10.6	52	<0.1	40.1	9.1	406	2.45	5.6	1.1	2.4	3.5	34	<0.1	0.5	0.1	169	0.75	0.272
1196872	Soil	0.7	26.5	6.7	62	<0.1	19.9	14.0	444	3.02	5.4	0.4	0.5	2.6	37	<0.1	0.4	0.1	79	0.47	0.036
1196873	Soil	2.6	59.8	18.4	92	0.1	28.0	21.5	807	4.81	2.9	0.8	2.3	4.7	27	<0.1	0.5	0.2	134	0.86	0.041
1196874	Soil	2.7	17.3	8.2	61	<0.1	15.2	9.7	648	3.29	6.9	0.5	0.8	4.0	40	0.1	0.6	0.1	66	0.49	0.033
1196877	Soil	0.4	44.2	2.8	73	<0.1	26.0	21.6	850	4.77	4.7	0.6	0.7	3.0	41	<0.1	0.3	<0.1	135	0.56	0.076
1196878	Soil	1.0	50.8	67.1	62	0.1	21.1	9.5	273	3.95	5.0	1.1	0.8	3.9	38	0.1	0.4	0.5	76	0.47	0.041
1196879	Soil	0.7	22.1	144.8	93	0.1	7.7	10.8	733	5.33	3.6	0.7	<0.5	3.1	27	0.1	0.2	1.3	87	0.43	0.091
1196880	Soil	1.4	34.0	25.5	68	0.2	23.3	9.0	381	2.49	160.4	0.6	1.6	8.6	20	0.2	1.8	0.3	64	0.21	0.024
1196881	Soil	1.5	33.1	13.7	78	<0.1	19.5	7.7	271	3.44	7.8	0.7	7.5	3.2	23	0.2	0.5	0.2	79	0.24	0.047
1196882	Soil	3.9	132.6	8.0	212	0.2	50.4	15.8	619	6.29	179.9	4.2	0.8	3.7	150	0.7	2.6	0.3	315	0.51	0.122
1196883	Soil	0.8	26.9	21.8	102	0.2	23.1	12.7	489	3.13	7.6	0.5	0.5	2.4	75	0.2	0.4	0.2	80	0.45	0.112
1196884	Soil	4.7	73.8	33.0	139	0.1	82.4	8.0	99	1.88	27.2	2.6	1.6	5.2	145	0.7	0.6	0.4	173	0.24	0.050

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197633	Soil	7	24	0.71	192	0.109	<1	2.49	0.010	0.29	0.1	0.03	2.4	0.2	<0.05	7	0.7	<0.2
1197634	Soil	48	15	0.82	151	0.137	<1	3.21	0.012	0.27	<0.1	0.02	3.1	0.3	<0.05	8	<0.5	<0.2
1197635	Soil	62	15	0.95	208	0.170	1	2.55	0.023	0.54	<0.1	0.01	4.6	0.4	<0.05	9	0.6	<0.2
1196547	Soil	7	39	0.86	390	0.109	1	1.77	0.022	0.39	<0.1	<0.01	5.2	0.1	<0.05	5	0.6	<0.2
1196548	Soil	14	45	1.37	257	0.089	2	2.25	0.018	0.26	<0.1	0.04	8.2	<0.1	<0.05	8	0.8	<0.2
1196550	Soil	15	28	0.53	201	0.077	2	1.23	0.019	0.12	0.1	0.04	5.4	<0.1	<0.05	3	0.8	<0.2
1196551	Soil	8	40	1.89	228	0.130	1	2.82	0.008	0.52	<0.1	<0.01	4.7	0.1	<0.05	9	<0.5	<0.2
1196860	Soil	9	27	0.38	604	0.057	2	1.45	0.012	0.20	0.1	0.01	5.6	<0.1	<0.05	5	0.5	<0.2
1196861	Soil	10	34	0.41	310	0.044	2	1.35	0.012	0.15	0.1	0.03	7.1	<0.1	0.06	5	0.7	<0.2
1196862	Soil	7	40	1.29	238	0.151	1	2.05	0.014	0.58	<0.1	0.01	4.4	0.1	<0.05	7	<0.5	<0.2
1196863	Soil	8	57	1.16	255	0.102	1	2.18	0.022	0.32	<0.1	0.01	7.0	<0.1	<0.05	6	<0.5	<0.2
1196864	Soil	7	39	1.28	266	0.116	<1	2.41	0.015	0.20	<0.1	<0.01	4.9	<0.1	<0.05	7	<0.5	<0.2
1196865	Soil	16	47	1.70	297	0.205	<1	2.42	0.020	0.65	<0.1	<0.01	6.4	0.1	<0.05	8	0.6	<0.2
1196866	Soil	8	41	1.21	260	0.101	<1	2.52	0.016	0.36	<0.1	0.01	5.4	0.1	<0.05	7	<0.5	<0.2
1196867	Soil	3	41	1.90	337	0.189	<1	2.99	0.015	0.52	<0.1	0.02	2.6	0.1	<0.05	8	<0.5	<0.2
1196868	Soil	7	31	1.27	237	0.129	<1	2.21	0.030	0.73	<0.1	<0.01	7.2	0.2	<0.05	8	0.6	<0.2
1196869	Soil	14	30	1.75	377	0.198	<1	2.73	0.015	1.16	<0.1	<0.01	11.1	0.3	<0.05	11	0.5	<0.2
1196870	Soil	10	36	0.76	408	0.106	<1	1.93	0.012	0.57	0.1	0.02	5.5	0.2	<0.05	8	0.7	<0.2
1196871	Soil	11	43	0.53	536	0.058	<1	1.96	0.014	0.14	0.1	<0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
1196872	Soil	7	39	0.85	486	0.102	<1	1.94	0.015	0.30	<0.1	0.01	4.1	<0.1	<0.05	6	0.7	<0.2
1196873	Soil	15	47	1.38	336	0.105	<1	2.12	0.014	0.48	<0.1	0.04	13.9	0.2	<0.05	9	0.7	<0.2
1196874	Soil	11	23	0.42	615	0.062	2	1.42	0.011	0.30	<0.1	0.03	8.1	<0.1	<0.05	5	0.6	<0.2
1196877	Soil	10	39	2.28	514	0.191	<1	3.17	0.010	1.11	<0.1	0.02	6.7	0.2	<0.05	10	<0.5	<0.2
1196878	Soil	16	32	0.78	959	0.076	<1	1.93	0.021	0.13	<0.1	0.04	11.2	<0.1	<0.05	8	0.8	<0.2
1196879	Soil	8	17	1.62	892	0.167	<1	2.71	0.010	1.25	<0.1	0.01	11.5	0.3	<0.05	12	<0.5	<0.2
1196880	Soil	26	70	0.77	353	0.078	<1	1.61	0.009	0.12	<0.1	0.02	4.1	0.1	<0.05	5	0.7	<0.2
1196881	Soil	9	34	0.56	517	0.085	<1	1.85	0.010	0.36	<0.1	0.01	3.3	0.1	0.05	5	0.9	<0.2
1196882	Soil	16	74	2.24	1127	0.213	<1	3.29	0.016	0.94	<0.1	0.02	18.5	0.7	<0.05	12	4.3	0.2
1196883	Soil	8	37	0.92	429	0.113	1	2.22	0.013	0.19	0.2	<0.01	4.3	0.1	<0.05	8	<0.5	<0.2
1196884	Soil	10	26	0.46	396	0.020	<1	1.46	0.007	0.08	0.1	0.02	2.6	0.2	<0.05	5	2.0	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196885	Soil	0.7	76.5	10.1	94	<0.1	48.1	15.9	346	4.78	6.5	2.5	1.6	17.7	87	<0.1	0.4	0.2	99	0.51	0.026
1196886	Soil	0.8	17.1	12.1	79	<0.1	19.8	10.9	539	3.28	5.4	1.3	1.3	10.1	32	<0.1	0.3	0.2	49	0.21	0.033
1196887	Soil	0.3	111.6	3.0	73	<0.1	30.7	26.1	889	4.68	2.7	0.3	1.9	1.0	136	<0.1	0.4	<0.1	138	0.89	0.091
1196888	Soil	0.5	26.8	19.7	67	<0.1	25.3	10.3	309	3.18	4.8	1.3	1.3	10.3	71	<0.1	0.3	0.1	50	0.26	0.015
1196889	Soil	0.6	50.1	5.4	61	<0.1	30.4	17.9	509	3.51	6.8	0.6	3.1	3.8	30	<0.1	0.5	<0.1	87	0.55	0.046
1196890	Soil	0.4	53.0	29.2	90	<0.1	40.3	14.1	287	4.53	3.1	1.2	1.8	18.7	112	<0.1	0.2	0.2	61	0.32	0.016
1196891	Soil	0.6	37.3	11.5	92	<0.1	20.8	7.8	317	3.59	8.0	1.0	4.1	6.6	22	<0.1	0.6	0.1	54	0.15	0.018
1198505	Soil	0.7	43.6	8.5	105	<0.1	14.9	17.0	538	4.65	3.7	0.5	2.5	1.9	40	<0.1	0.3	<0.1	110	0.56	0.066
1198506	Soil	0.9	21.7	14.1	54	<0.1	17.7	9.3	279	2.66	7.8	1.1	1.4	4.0	26	0.1	0.5	0.2	61	0.30	0.039
1198507	Soil	1.3	22.5	15.0	56	0.1	16.8	8.1	280	2.84	14.6	0.8	2.5	2.5	22	<0.1	0.4	0.2	69	0.30	0.054
1198508	Soil	1.0	30.6	25.5	65	0.1	17.2	11.0	355	3.21	9.2	1.2	2.7	5.0	24	<0.1	0.6	0.3	68	0.33	0.045
1198509	Soil	1.4	40.1	10.2	63	<0.1	19.9	12.0	331	3.36	14.1	0.5	1.7	2.5	19	<0.1	0.5	0.1	87	0.28	0.040
1198510	Soil	1.3	22.2	9.6	66	<0.1	16.9	11.8	613	3.55	8.8	0.5	1.4	2.5	33	<0.1	0.5	0.1	83	0.39	0.041
1198511	Soil	0.6	144.6	7.1	66	<0.1	23.4	24.2	499	4.40	19.0	0.6	5.3	2.3	47	<0.1	0.8	<0.1	125	0.64	0.038
1198512	Soil	1.2	95.8	8.7	99	<0.1	21.6	23.3	575	5.86	20.3	0.5	1.2	2.1	60	<0.1	1.1	<0.1	135	0.45	0.043
1198513	Soil	1.2	23.4	11.2	135	<0.1	15.0	10.6	953	3.57	8.3	0.6	2.5	3.6	21	0.3	0.6	0.1	58	0.31	0.041
1198514	Soil	1.5	15.2	15.0	69	0.1	13.0	7.5	426	3.15	7.9	0.7	1.8	4.1	21	<0.1	0.6	0.2	64	0.29	0.026
1198515	Soil	1.2	81.1	7.1	102	<0.1	12.8	14.4	526	4.78	6.3	0.7	1.7	3.2	27	<0.1	0.5	0.1	90	0.44	0.031
1198516	Soil	1.0	29.4	10.5	62	<0.1	15.6	9.9	426	2.95	8.5	0.4	2.9	2.3	26	<0.1	0.3	0.1	72	0.27	0.027
1198517	Soil	0.9	34.7	6.2	124	<0.1	11.5	9.8	423	4.50	5.5	0.6	0.8	3.0	19	0.1	0.4	0.1	92	0.26	0.037
1198518	Soil	0.6	61.2	5.5	93	<0.1	9.1	17.9	596	5.01	2.2	0.5	1.2	1.9	37	<0.1	0.4	<0.1	117	0.58	0.048
1198519	Soil	0.8	55.0	5.4	87	<0.1	10.0	18.8	568	5.02	2.3	0.5	1.3	1.9	39	<0.1	0.5	<0.1	109	0.57	0.045
1198520	Soil	1.3	74.6	7.5	63	<0.1	20.9	17.9	442	4.48	9.6	0.5	1.1	1.9	25	<0.1	0.4	0.1	123	0.33	0.030
1198521	Soil	2.1	135.8	7.5	82	<0.1	37.9	21.8	571	5.36	4.9	1.5	1.6	8.3	46	<0.1	0.2	0.1	180	0.55	0.075
1198522	Soil	0.3	105.1	9.8	48	<0.1	27.5	19.1	368	3.09	14.7	0.5	1.4	1.4	49	<0.1	0.2	<0.1	84	1.13	0.053
1198523	Soil	0.7	69.0	5.3	173	<0.1	16.3	21.3	1306	6.48	8.1	2.5	0.7	8.8	29	<0.1	0.3	<0.1	178	0.52	0.078
1198524	Soil	0.7	58.1	28.9	88	<0.1	33.7	18.0	615	4.72	20.7	1.2	5.0	14.6	35	<0.1	0.4	0.3	106	0.64	0.045
1198525	Soil	1.2	21.9	32.1	56	0.2	18.4	11.1	344	2.96	9.7	0.7	1.4	4.3	28	<0.1	0.4	0.3	74	0.36	0.037
1198526	Soil	1.2	25.9	33.4	65	<0.1	24.8	12.7	312	3.44	11.9	1.3	3.4	6.9	27	<0.1	0.4	0.3	75	0.37	0.031
1198527	Soil	0.7	61.6	47.8	95	<0.1	55.3	17.4	536	4.39	8.7	2.0	2.7	8.9	44	0.1	0.5	0.3	93	0.62	0.127

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Project: HEN  
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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1196885	Soil	67	88	1.23	276	0.234	<1	3.18	0.020	0.70	<0.1	0.01	9.1	0.4	<0.05	12	<0.5	<0.2
1196886	Soil	15	33	0.67	315	0.142	<1	1.81	0.009	0.48	<0.1	0.02	2.3	0.2	<0.05	6	<0.5	<0.2
1196887	Soil	4	45	2.08	243	0.050	1	2.51	0.019	0.25	<0.1	0.04	10.3	<0.1	<0.05	9	<0.5	<0.2
1196888	Soil	26	40	0.73	316	0.130	<1	2.27	0.017	0.56	<0.1	0.02	4.4	0.4	<0.05	7	<0.5	<0.2
1196889	Soil	12	46	1.25	357	0.123	1	2.00	0.017	0.43	<0.1	0.03	5.4	0.1	<0.05	6	<0.5	<0.2
1196890	Soil	40	58	1.14	257	0.308	<1	2.81	0.013	0.87	<0.1	0.01	4.6	0.6	<0.05	10	<0.5	<0.2
1196891	Soil	13	28	0.58	169	0.134	<1	2.14	0.013	0.18	<0.1	0.04	5.2	0.1	<0.05	7	0.5	<0.2
1198505	Soil	6	31	1.29	642	0.256	<1	2.87	0.025	0.77	<0.1	0.01	4.6	0.2	<0.05	7	<0.5	<0.2
1198506	Soil	13	35	0.49	279	0.083	<1	1.75	0.015	0.06	0.1	0.03	3.2	<0.1	<0.05	5	0.8	<0.2
1198507	Soil	11	37	0.52	281	0.066	<1	1.77	0.018	0.07	0.1	0.05	3.5	<0.1	<0.05	6	<0.5	<0.2
1198508	Soil	20	35	0.53	407	0.070	<1	1.77	0.016	0.08	0.1	0.03	4.1	<0.1	<0.05	6	0.6	<0.2
1198509	Soil	9	35	0.68	313	0.083	<1	2.10	0.017	0.09	0.1	0.01	3.2	<0.1	<0.05	6	0.7	<0.2
1198510	Soil	8	39	0.68	368	0.097	<1	2.00	0.016	0.15	<0.1	0.02	3.3	<0.1	<0.05	6	0.6	<0.2
1198511	Soil	8	32	1.40	569	0.166	<1	2.56	0.026	0.13	<0.1	0.02	7.2	<0.1	<0.05	6	1.0	<0.2
1198512	Soil	5	57	1.60	254	0.219	<1	3.00	0.025	0.13	<0.1	<0.01	4.7	<0.1	<0.05	9	<0.5	<0.2
1198513	Soil	10	26	0.53	359	0.077	<1	1.65	0.014	0.19	0.1	0.02	4.5	<0.1	<0.05	7	<0.5	<0.2
1198514	Soil	13	29	0.47	278	0.059	<1	1.58	0.014	0.10	0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
1198515	Soil	15	19	0.87	366	0.051	<1	2.49	0.014	0.22	<0.1	0.02	9.3	<0.1	<0.05	9	0.7	<0.2
1198516	Soil	7	26	0.60	256	0.101	<1	1.71	0.014	0.10	0.2	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
1198517	Soil	7	18	0.63	202	0.162	<1	2.14	0.023	0.18	<0.1	0.02	5.5	<0.1	<0.05	9	<0.5	<0.2
1198518	Soil	10	36	1.40	561	0.113	<1	2.81	0.020	0.44	<0.1	<0.01	9.5	0.1	<0.05	7	0.6	<0.2
1198519	Soil	9	34	1.45	540	0.097	1	2.84	0.020	0.36	<0.1	0.01	9.0	<0.1	<0.05	7	<0.5	<0.2
1198520	Soil	6	40	0.99	378	0.048	<1	2.77	0.014	0.06	<0.1	0.02	6.8	<0.1	<0.05	7	0.6	<0.2
1198521	Soil	16	85	1.17	784	0.306	<1	3.39	0.029	0.93	<0.1	<0.01	9.3	0.2	<0.05	10	0.6	0.2
1198522	Soil	4	26	0.85	355	0.116	<1	3.78	0.094	0.10	<0.1	0.01	7.4	<0.1	<0.05	7	<0.5	<0.2
1198523	Soil	34	15	0.93	835	0.227	<1	2.67	0.015	0.60	<0.1	0.02	11.3	0.2	<0.05	15	<0.5	<0.2
1198524	Soil	60	80	1.30	580	0.265	<1	2.62	0.027	0.30	<0.1	0.05	9.7	<0.1	<0.05	10	<0.5	<0.2
1198525	Soil	14	42	0.56	300	0.095	<1	1.97	0.017	0.05	<0.1	0.02	3.9	<0.1	<0.05	7	<0.5	<0.2
1198526	Soil	19	60	0.75	309	0.084	<1	2.24	0.016	0.12	<0.1	0.02	5.5	<0.1	<0.05	7	<0.5	<0.2
1198527	Soil	36	69	0.75	482	0.106	1	2.02	0.017	0.27	0.1	0.04	8.8	0.1	<0.05	7	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1198528	Soil	1.1	18.9	15.3	48	<0.1	19.3	8.0	242	3.19	7.9	0.5	2.6	2.8	24	<0.1	0.6	0.2	56	0.31	0.029
1198529	Soil	1.3	13.2	14.5	42	<0.1	16.1	8.9	187	2.76	9.9	0.5	1.2	3.2	21	<0.1	0.4	0.2	65	0.27	0.030
1198530	Soil	0.8	19.2	14.7	55	<0.1	15.1	7.9	244	2.70	6.7	0.6	2.1	3.1	32	<0.1	0.4	0.2	54	0.43	0.052
1198531	Soil	0.9	21.4	12.9	63	0.1	18.4	11.4	986	2.47	7.6	0.9	2.8	3.3	36	0.3	0.4	0.2	60	0.54	0.064
1198532	Soil	0.6	20.7	11.4	104	<0.1	8.7	6.1	406	4.13	6.2	0.5	<0.5	3.1	20	0.1	0.3	0.1	22	0.29	0.058
1198533	Soil	0.8	17.8	14.2	63	<0.1	9.8	6.4	265	2.92	4.5	1.0	<0.5	3.1	54	0.1	0.4	0.3	31	0.49	0.055
1198534	Soil	0.9	18.5	13.7	60	<0.1	15.8	14.5	497	2.78	9.4	0.7	1.4	3.2	20	0.1	0.7	0.3	55	0.29	0.059
1198535	Soil	0.7	11.1	9.3	62	<0.1	7.8	7.0	249	2.12	5.0	0.4	1.5	1.0	17	0.2	0.4	0.2	45	0.21	0.048
1198536	Soil	1.1	32.7	104.4	97	<0.1	17.7	21.7	553	5.32	8.0	0.8	0.7	3.4	45	<0.1	0.6	0.7	122	0.62	0.103
1196136	Soil	0.8	33.8	14.6	87	<0.1	23.6	11.7	456	3.62	5.9	0.5	0.8	2.8	24	<0.1	0.6	0.2	71	0.38	0.052
1196137	Soil	1.0	41.9	20.4	120	0.1	22.3	14.5	448	4.33	9.9	0.9	7.3	4.4	26	<0.1	0.5	0.2	116	0.32	0.055
1196138	Soil	0.6	22.2	24.2	111	0.2	23.5	16.4	716	3.77	3.6	0.5	1.5	2.9	24	0.3	0.3	0.2	82	0.44	0.088
1196139	Soil	0.9	33.0	13.5	81	<0.1	19.5	9.4	350	3.07	10.7	1.3	2.6	11.5	26	<0.1	0.6	0.3	62	0.26	0.028
1196140	Soil	2.6	63.8	11.5	106	<0.1	38.5	18.1	602	5.18	19.9	1.7	2.4	8.8	18	<0.1	0.5	0.5	85	0.32	0.128
1196141	Soil	0.9	31.9	7.3	92	0.1	31.4	15.1	617	5.23	10.4	0.4	1.3	1.8	17	<0.1	0.3	0.2	89	0.32	0.044
1196142	Soil	0.9	25.0	9.0	49	0.2	26.5	10.4	306	2.78	9.4	0.7	4.9	4.2	20	<0.1	0.6	0.2	64	0.25	0.029
1196143	Soil	0.7	52.0	4.2	94	0.1	43.7	22.3	861	6.32	14.5	0.5	3.0	1.1	24	<0.1	0.2	0.2	111	0.60	0.097
1196144	Soil	1.8	19.8	10.4	71	0.2	22.7	13.8	359	3.11	10.0	0.6	2.2	4.6	14	<0.1	0.7	0.2	73	0.14	0.047
1196145	Soil	0.9	93.0	2.7	64	0.2	188.0	33.1	737	7.04	1.9	1.2	3.7	0.9	18	<0.1	<0.1	0.1	146	0.27	0.088
1196146	Soil	2.1	45.7	6.0	47	<0.1	44.8	16.0	377	3.76	3.8	2.8	0.7	17.1	9	<0.1	0.1	0.1	50	0.29	0.145
1196147	Soil	1.0	80.5	3.1	106	<0.1	32.7	24.2	1241	9.11	41.3	1.0	3.1	1.2	25	<0.1	0.4	0.2	122	1.21	0.390
1196148	Soil	0.9	27.0	8.4	55	0.2	22.0	12.9	305	3.40	6.9	0.6	2.9	2.9	19	<0.1	0.4	0.2	74	0.28	0.038
1196149	Soil	1.5	267.3	4.4	17	0.1	13.3	9.2	129	6.26	1.5	1.0	8.3	3.1	41	<0.1	0.1	11.7	19	0.67	0.209
1196150	Soil	1.3	24.1	104.4	79	<0.1	17.0	10.9	407	3.57	8.6	1.7	1.6	11.3	18	0.1	0.4	1.3	63	0.18	0.028
1196936	Soil	0.9	31.5	34.3	68	<0.1	7.3	10.1	477	3.26	5.3	1.9	0.5	23.8	11	<0.1	0.4	0.3	46	0.11	0.036
1196937	Soil	1.1	23.1	33.4	90	0.1	11.5	7.6	660	2.59	7.1	0.7	0.8	10.0	13	0.4	0.3	0.3	49	0.14	0.034
1196938	Soil	1.6	72.0	56.7	184	<0.1	48.2	17.2	833	4.73	83.3	4.3	1.7	10.8	20	0.1	0.6	0.4	115	0.29	0.040
1196939	Soil	0.7	21.7	15.4	133	<0.1	12.1	16.2	503	5.08	6.2	0.7	1.0	2.6	18	<0.1	0.4	0.1	125	0.41	0.098
1196940	Soil	0.9	26.3	11.7	62	<0.1	18.5	9.1	299	3.01	8.4	1.1	2.2	3.4	22	<0.1	0.5	0.2	60	0.24	0.029
1196941	Soil	1.0	21.9	9.3	64	<0.1	17.2	8.4	327	2.82	8.3	0.7	2.1	3.7	19	<0.1	0.5	0.1	59	0.17	0.017

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1198528	Soil	9	33	0.43	297	0.041	<1	2.08	0.011	0.07	0.1	<0.01	4.4	<0.1	<0.05	7	<0.5	<0.2
1198529	Soil	10	33	0.44	306	0.065	<1	1.81	0.012	0.05	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1198530	Soil	10	30	0.45	270	0.076	<1	1.56	0.018	0.06	0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
1198531	Soil	13	32	0.48	410	0.080	<1	1.54	0.021	0.06	0.1	0.02	3.4	<0.1	<0.05	5	0.6	<0.2
1198532	Soil	15	10	0.46	357	0.051	<1	1.54	0.010	0.37	<0.1	0.02	5.4	<0.1	<0.05	9	<0.5	<0.2
1198533	Soil	15	13	0.41	447	0.041	2	1.44	0.012	0.07	<0.1	0.02	5.3	<0.1	<0.05	7	<0.5	<0.2
1198534	Soil	6	23	0.59	162	0.051	<1	1.45	0.018	0.11	0.1	0.01	3.3	<0.1	<0.05	5	0.7	<0.2
1198535	Soil	7	15	0.38	143	0.050	1	1.09	0.011	0.15	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
1198536	Soil	7	30	1.38	140	0.226	1	2.44	0.025	0.21	<0.1	0.01	7.1	<0.1	<0.05	12	0.8	<0.2
1196136	Soil	5	68	0.79	246	0.072	<1	1.90	0.025	0.07	<0.1	<0.01	6.2	<0.1	<0.05	8	0.5	<0.2
1196137	Soil	19	41	1.01	202	0.058	<1	2.20	0.014	0.07	<0.1	0.01	7.7	<0.1	<0.05	8	0.5	<0.2
1196138	Soil	7	35	1.74	363	0.114	<1	2.80	0.017	0.54	<0.1	0.02	4.4	0.2	<0.05	9	0.6	<0.2
1196139	Soil	22	33	0.66	258	0.101	1	2.14	0.012	0.15	0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
1196140	Soil	20	48	1.17	246	0.106	1	2.99	0.013	0.78	<0.1	0.01	6.0	0.4	<0.05	9	0.5	0.2
1196141	Soil	5	49	1.17	473	0.228	<1	2.95	0.016	0.68	<0.1	0.01	5.5	0.2	<0.05	9	<0.5	<0.2
1196142	Soil	14	38	0.55	400	0.074	<1	1.90	0.014	0.06	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
1196143	Soil	5	57	1.77	768	0.275	<1	3.43	0.024	0.94	<0.1	<0.01	5.6	0.3	<0.05	11	<0.5	0.3
1196144	Soil	13	40	0.48	185	0.071	<1	2.23	0.010	0.08	0.1	0.02	2.7	0.1	<0.05	6	0.7	<0.2
1196145	Soil	6	316	2.41	740	0.363	<1	3.27	0.028	2.25	<0.1	<0.01	9.6	1.0	0.39	10	1.0	0.2
1196146	Soil	29	41	0.74	106	0.139	<1	1.90	0.006	0.76	0.1	<0.01	2.1	0.4	<0.05	6	<0.5	<0.2
1196147	Soil	9	34	2.19	973	0.221	<1	4.65	0.015	1.98	<0.1	<0.01	8.8	0.7	<0.05	16	0.6	<0.2
1196148	Soil	11	34	0.73	467	0.133	<1	2.12	0.013	0.27	0.1	0.01	3.8	0.1	<0.05	7	<0.5	<0.2
1196149	Soil	13	12	0.56	91	0.067	<1	1.09	0.015	0.05	<0.1	<0.01	2.4	<0.1	0.06	4	0.6	<0.2
1196150	Soil	23	27	0.64	215	0.077	<1	1.87	0.009	0.34	<0.1	0.02	6.6	0.2	<0.05	6	<0.5	<0.2
1196936	Soil	42	16	0.57	148	0.087	1	1.67	0.009	0.60	<0.1	0.01	3.9	0.3	<0.05	6	<0.5	<0.2
1196937	Soil	20	22	0.39	193	0.059	<1	1.47	0.013	0.26	<0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
1196938	Soil	27	81	1.50	279	0.124	<1	2.49	0.007	0.76	<0.1	0.02	9.9	0.4	<0.05	9	1.3	<0.2
1196939	Soil	10	17	1.01	335	0.169	<1	2.39	0.021	0.42	<0.1	<0.01	5.6	0.2	<0.05	9	<0.5	<0.2
1196940	Soil	17	40	0.52	280	0.094	<1	1.84	0.013	0.12	0.1	0.03	5.4	<0.1	<0.05	6	0.6	<0.2
1196941	Soil	13	31	0.49	210	0.086	<1	1.89	0.012	0.06	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196942	Soil	0.9	23.4	17.3	112	<0.1	7.0	14.9	726	5.25	5.0	0.4	1.3	1.5	25	0.1	0.2	0.4	107	0.59	0.150
1196943	Soil	1.0	23.5	9.2	59	<0.1	16.8	10.9	366	3.11	7.6	0.6	2.8	3.6	21	<0.1	0.5	0.2	71	0.26	0.027
1196944	Soil	0.9	28.4	9.7	76	<0.1	17.4	11.2	548	3.56	6.6	1.0	2.3	4.3	26	<0.1	0.5	0.3	72	0.38	0.043
1196945	Soil	0.4	197.6	18.9	100	<0.1	293.0	43.8	1171	6.80	6.8	1.8	2.2	11.2	123	0.1	0.3	0.1	190	1.66	0.325
1196946	Soil	0.4	191.8	17.2	95	<0.1	290.4	42.9	1032	6.60	5.9	1.8	3.3	10.7	124	<0.1	0.3	<0.1	184	1.67	0.313
1196947	Soil	1.1	86.5	21.2	93	<0.1	23.4	14.2	619	4.84	6.2	0.6	0.8	4.4	32	<0.1	0.5	0.3	96	0.65	0.098
1196948	Soil	0.6	67.3	8.1	131	<0.1	24.3	17.0	699	3.80	5.0	1.3	2.7	3.0	28	0.2	0.4	0.1	101	0.65	0.110
1196949	Soil	0.8	31.1	9.5	69	<0.1	17.0	10.1	398	3.13	6.6	1.2	2.4	3.3	29	<0.1	0.4	0.2	73	0.50	0.062
1196950	Soil	0.7	23.5	7.5	56	<0.1	17.8	11.7	294	2.77	6.0	0.8	2.8	3.0	25	<0.1	0.4	0.2	66	0.41	0.046
1196988	Soil	0.6	27.2	9.1	52	<0.1	12.7	8.9	219	2.31	6.7	0.5	1.6	1.6	27	0.2	0.3	0.2	58	0.48	0.105
1196989	Soil	0.6	22.0	9.6	44	0.2	12.3	6.0	138	1.98	5.3	0.9	7.9	2.4	22	0.1	0.3	0.2	47	0.29	0.030
1196990	Soil	0.9	20.4	9.3	63	0.1	14.4	7.9	219	2.83	8.6	0.6	1.2	2.1	19	0.2	0.4	0.2	70	0.26	0.057
1196991	Soil	0.9	21.0	8.4	63	0.1	13.4	9.0	206	2.84	8.2	0.4	<0.5	2.0	18	0.2	0.4	0.2	68	0.30	0.076
1196992	Soil	0.5	54.6	16.1	66	0.1	24.8	13.6	254	3.07	5.6	0.7	2.7	1.3	51	<0.1	0.3	0.3	75	0.61	0.093
1197792	Soil	0.8	26.4	10.0	55	0.1	14.6	9.2	217	2.25	6.1	0.7	0.9	1.7	29	0.2	0.3	0.2	56	0.40	0.091
1192161	Soil	0.7	57.5	8.3	238	<0.1	14.4	20.7	650	4.11	3.9	0.5	1.2	3.1	222	<0.1	0.3	0.2	100	0.33	0.019
1192162	Soil	0.1	27.8	10.0	61	<0.1	11.6	15.3	364	3.02	2.2	0.3	<0.5	0.6	79	<0.1	0.2	<0.1	81	1.01	0.131
1192163	Soil	0.8	37.5	9.5	62	<0.1	27.0	10.7	408	2.96	10.8	0.6	3.8	4.8	31	0.1	0.6	0.2	61	0.39	0.035
1192164	Soil	0.9	27.7	10.3	78	0.1	22.9	9.9	365	3.24	10.5	0.8	0.9	4.9	22	<0.1	0.6	0.2	66	0.21	0.025
1192165	Soil	0.9	74.4	6.5	242	<0.1	23.3	20.3	685	5.31	4.8	0.8	2.0	2.5	59	0.2	0.3	0.2	138	0.41	0.038
1192167	Soil	0.3	75.9	22.2	32	<0.1	12.9	14.6	311	3.39	9.6	0.4	0.5	2.6	62	<0.1	0.3	0.5	79	0.69	0.132
1192168	Soil	0.2	52.5	4.8	53	<0.1	17.7	13.9	265	2.70	3.1	0.3	<0.5	1.2	40	<0.1	0.2	<0.1	75	0.55	0.081
1192170	Soil	0.1	65.2	10.2	44	<0.1	15.8	13.4	294	2.58	2.8	0.4	<0.5	1.0	159	<0.1	0.3	<0.1	71	1.10	0.107
1192171	Soil	0.2	29.7	5.2	56	<0.1	12.4	12.3	246	3.19	3.4	0.3	1.0	0.9	73	<0.1	0.2	<0.1	71	0.84	0.130
1192172	Soil	0.4	13.4	37.7	71	0.2	17.9	5.5	1030	1.85	6.2	0.4	1.9	1.1	77	0.4	0.1	0.2	29	11.71	0.195
1192173	Soil	0.4	40.3	4.7	41	<0.1	19.7	15.2	452	3.53	3.8	0.5	<0.5	1.8	39	0.1	0.2	<0.1	90	0.75	0.134
1192174	Soil	0.4	37.0	6.0	47	<0.1	18.1	12.1	308	2.92	7.2	0.5	<0.5	2.9	26	<0.1	0.4	<0.1	75	0.50	0.056
1192175	Soil	0.5	38.2	16.0	77	0.1	21.4	14.3	780	3.12	6.3	0.4	0.7	1.9	63	0.2	0.3	0.2	68	0.46	0.068
1192176	Soil	0.2	28.4	10.7	70	<0.1	11.6	16.5	448	4.19	4.2	0.3	<0.5	0.8	229	<0.1	0.6	<0.1	105	1.13	0.239
1192177	Soil	0.1	25.9	5.1	41	<0.1	6.5	11.9	345	2.94	3.5	0.2	<0.5	0.9	85	<0.1	0.2	<0.1	74	1.12	0.211

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1196942	Soil	6	12	0.96	263	0.135	<1	2.18	0.032	0.44	<0.1	<0.01	7.1	<0.1	<0.05	10	<0.5	<0.2
1196943	Soil	13	29	0.51	231	0.082	<1	1.80	0.014	0.06	0.1	0.01	3.9	<0.1	<0.05	6	<0.5	<0.2
1196944	Soil	20	27	0.61	236	0.104	<1	1.85	0.021	0.10	<0.1	0.03	6.6	0.1	<0.05	7	<0.5	<0.2
1196945	Soil	34	324	5.52	178	0.278	3	3.41	0.022	0.39	0.2	0.03	6.3	<0.1	<0.05	12	0.7	<0.2
1196946	Soil	32	306	5.47	163	0.279	5	3.38	0.023	0.41	0.2	0.02	6.1	<0.1	<0.05	12	0.7	<0.2
1196947	Soil	11	39	1.02	232	0.065	<1	2.36	0.019	0.07	0.1	0.01	8.7	<0.1	<0.05	10	0.8	<0.2
1196948	Soil	14	41	0.97	267	0.093	<1	1.92	0.022	0.13	<0.1	0.03	7.9	<0.1	<0.05	7	<0.5	<0.2
1196949	Soil	13	36	0.62	212	0.085	<1	1.76	0.019	0.05	0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
1196950	Soil	11	44	0.61	194	0.091	<1	1.71	0.018	0.06	0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
1196988	Soil	6	28	0.44	151	0.078	<1	1.39	0.023	0.04	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
1196989	Soil	9	26	0.37	183	0.072	<1	1.30	0.012	0.04	0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
1196990	Soil	9	32	0.48	187	0.076	<1	1.64	0.012	0.04	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
1196991	Soil	7	28	0.45	167	0.077	2	1.47	0.016	0.04	0.2	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
1196992	Soil	7	71	0.70	172	0.114	1	1.89	0.026	0.05	<0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
1197792	Soil	8	29	0.46	226	0.076	<1	1.40	0.020	0.04	0.2	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
1192161	Soil	7	29	1.23	257	0.068	<1	2.26	0.019	0.03	<0.1	<0.01	7.2	<0.1	<0.05	7	0.6	<0.2
1192162	Soil	4	12	0.91	126	0.140	<1	1.78	0.056	0.06	<0.1	<0.01	6.1	<0.1	<0.05	6	<0.5	<0.2
1192163	Soil	16	33	0.63	316	0.099	<1	1.51	0.022	0.07	0.1	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
1192164	Soil	13	33	0.57	264	0.106	<1	1.75	0.013	0.18	0.1	0.01	5.9	<0.1	<0.05	5	<0.5	<0.2
1192165	Soil	9	50	1.32	153	0.140	<1	2.29	0.026	0.17	<0.1	0.03	13.0	<0.1	0.06	9	0.9	<0.2
1192167	Soil	5	24	0.67	98	0.129	<1	1.75	0.035	0.05	<0.1	<0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
1192168	Soil	3	58	0.94	152	0.141	<1	1.81	0.023	0.06	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
1192170	Soil	6	28	0.67	156	0.120	<1	1.97	0.057	0.07	<0.1	<0.01	6.0	<0.1	<0.05	6	<0.5	<0.2
1192171	Soil	3	24	0.71	171	0.183	<1	2.38	0.036	0.06	<0.1	<0.01	4.1	<0.1	<0.05	7	<0.5	<0.2
1192172	Soil	9	15	7.26	145	0.030	<1	0.90	0.011	0.04	<0.1	0.03	2.4	<0.1	0.06	3	<0.5	<0.2
1192173	Soil	4	32	1.00	165	0.112	<1	2.05	0.056	0.21	<0.1	<0.01	6.0	<0.1	<0.05	7	<0.5	<0.2
1192174	Soil	8	33	0.66	167	0.104	<1	1.66	0.040	0.05	0.1	<0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
1192175	Soil	5	58	0.78	267	0.108	<1	1.92	0.026	0.10	<0.1	<0.01	4.1	<0.1	<0.05	7	<0.5	<0.2
1192176	Soil	4	15	0.83	205	0.127	<1	1.88	0.053	0.07	<0.1	<0.01	7.0	<0.1	<0.05	6	<0.5	<0.2
1192177	Soil	4	11	0.69	190	0.139	<1	1.82	0.051	0.11	<0.1	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002506.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1192178	Soil	0.2	66.5	31.3	225	0.2	17.6	15.5	507	3.41	3.9	0.5	1.8	1.2	72	0.5	0.4	0.4	101	0.87	0.119
1192181	Soil	<0.1	70.6	4.9	44	<0.1	8.9	19.7	401	3.67	5.0	0.4	<0.5	1.3	84	<0.1	0.3	<0.1	116	1.25	0.148
1192182	Soil	0.3	38.7	10.1	57	<0.1	11.0	16.4	329	3.84	4.3	0.6	1.3	1.8	57	<0.1	0.3	<0.1	108	0.77	0.137





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**Project:** HEN  
**Report Date:** July 19, 2011

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**CERTIFICATE OF ANALYSIS**

**VAN11002506.2**

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1192178	Soil	6	30	0.83	168	0.135	<1	1.77	0.050	0.08	<0.1	0.06	9.0	<0.1	<0.05	7	<0.5	<0.2
1192181	Soil	5	15	0.72	108	0.122	<1	1.88	0.086	0.10	<0.1	<0.01	10.6	<0.1	<0.05	7	<0.5	<0.2
1192182	Soil	8	17	0.73	205	0.157	<1	1.82	0.043	0.08	<0.1	<0.01	6.5	<0.1	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11002506.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1192350	Soil	1.1	45.4	7.5	72	0.1	25.2	14.8	643	4.18	16.0	0.9	1.5	4.9	27	<0.1	0.6	0.2	95	0.58	0.049
REP 1192350	QC	1.2	44.3	7.6	72	<0.1	24.7	14.8	648	4.32	15.3	0.9	1.9	5.0	29	<0.1	0.6	0.2	97	0.58	0.052
1197521	Soil	1.0	27.3	14.1	66	0.2	25.0	11.5	375	3.32	10.2	0.5	2.9	4.2	21	0.1	0.5	0.1	80	0.36	0.028
REP 1197521	QC	1.0	26.5	14.2	64	0.2	24.4	11.3	374	3.30	10.4	0.5	3.6	4.4	20	0.1	0.5	0.2	77	0.34	0.028
1197524	Soil	0.6	36.7	40.2	72	<0.1	20.3	9.7	438	3.21	4.9	0.4	1.8	3.3	17	0.2	0.3	0.5	75	0.36	0.090
REP 1197524	QC	0.7	36.4	40.7	71	<0.1	21.1	9.7	449	3.22	5.2	0.4	2.6	3.4	17	0.1	0.3	0.6	75	0.37	0.090
1197547	Soil	0.7	32.1	7.0	81	<0.1	13.0	9.9	436	3.24	5.8	0.5	1.7	2.2	147	<0.1	0.3	<0.1	57	0.50	0.056
REP 1197547	QC	0.6	33.1	7.3	84	<0.1	13.1	9.8	449	3.24	6.2	0.5	0.6	2.2	151	<0.1	0.3	<0.1	57	0.50	0.059
1197766	Soil	0.8	18.2	45.4	70	0.1	11.0	7.6	410	2.69	5.5	0.5	<0.5	2.6	48	0.1	0.5	0.4	37	0.50	0.097
REP 1197766	QC	1.0	18.1	45.2	70	0.1	11.3	7.8	417	2.73	5.2	0.6	<0.5	2.6	48	0.1	0.5	0.4	37	0.50	0.092
1197557	Soil	0.7	31.8	8.0	52	<0.1	23.2	11.6	274	2.97	9.7	0.6	2.3	4.0	17	<0.1	0.7	0.1	74	0.17	0.020
REP 1197557	QC	0.7	30.8	8.5	48	<0.1	22.5	11.1	265	2.92	9.2	0.5	1.5	3.9	16	<0.1	0.6	0.1	72	0.16	0.021
1197579	Soil	0.6	48.4	24.4	93	<0.1	11.9	11.4	418	3.43	4.9	1.2	2.5	4.4	81	0.1	0.3	0.1	65	0.20	0.016
REP 1197579	QC	0.6	51.4	24.7	95	<0.1	12.5	11.2	432	3.55	4.7	1.3	2.0	4.5	83	0.1	0.3	0.1	68	0.22	0.017
1197611	Soil	0.6	11.9	5.3	69	<0.1	6.5	14.7	730	5.35	5.3	1.6	1.5	11.3	37	<0.1	2.5	<0.1	102	0.37	0.022
REP 1197611	QC	0.7	11.8	5.0	69	<0.1	6.3	15.0	718	5.38	4.9	1.6	<0.5	11.3	37	<0.1	2.6	<0.1	100	0.38	0.021
1196860	Soil	2.3	12.9	8.3	48	<0.1	14.9	8.9	629	2.78	6.0	0.4	2.8	3.3	34	0.1	0.5	0.1	60	0.45	0.028
REP 1196860	QC	2.4	13.3	8.6	47	<0.1	15.1	8.9	594	2.67	6.5	0.4	1.0	3.3	36	<0.1	0.5	0.1	62	0.45	0.028
1196877	Soil	0.4	44.2	2.8	73	<0.1	26.0	21.6	850	4.77	4.7	0.6	0.7	3.0	41	<0.1	0.3	<0.1	135	0.56	0.076
REP 1196877	QC	0.4	45.8	2.9	79	<0.1	26.4	21.9	856	4.89	4.8	0.6	0.8	3.2	45	<0.1	0.2	<0.1	137	0.54	0.070
1196888	Soil	0.5	26.8	19.7	67	<0.1	25.3	10.3	309	3.18	4.8	1.3	1.3	10.3	71	<0.1	0.3	0.1	50	0.26	0.015
REP 1196888	QC	0.6	25.9	19.9	72	<0.1	24.6	9.9	312	3.16	4.5	1.2	1.5	9.9	71	<0.1	0.3	0.1	51	0.25	0.013
1198514	Soil	1.5	15.2	15.0	69	0.1	13.0	7.5	426	3.15	7.9	0.7	1.8	4.1	21	<0.1	0.6	0.2	64	0.29	0.026
REP 1198514	QC	1.5	15.2	15.4	75	0.1	14.0	7.9	437	3.16	8.0	0.7	6.8	4.1	21	<0.1	0.6	0.2	64	0.30	0.028
1198532	Soil	0.6	20.7	11.4	104	<0.1	8.7	6.1	406	4.13	6.2	0.5	<0.5	3.1	20	0.1	0.3	0.1	22	0.29	0.058
REP 1198532	QC	0.7	21.5	12.0	106	<0.1	7.8	5.9	403	4.17	6.4	0.6	1.6	3.0	21	0.1	0.2	0.1	22	0.29	0.059
1198536	Soil	1.1	32.7	104.4	97	<0.1	17.7	21.7	553	5.32	8.0	0.8	0.7	3.4	45	<0.1	0.6	0.7	122	0.62	0.103
REP 1198536	QC	1.3	32.7	108.2	98	<0.1	17.9	22.3	561	5.52	8.0	0.8	1.8	3.6	46	0.1	0.6	0.7	126	0.62	0.105

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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

VAN11002506.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1192350	Soil	16	45	0.84	545	0.079	2	2.22	0.029	0.24	<0.1	0.05	10.8	0.1	<0.05	7	0.9	<0.2
REP 1192350	QC	16	45	0.81	554	0.079	4	2.27	0.030	0.26	<0.1	0.05	11.0	0.1	<0.05	7	0.9	<0.2
1197521	Soil	12	43	0.62	278	0.103	1	1.97	0.016	0.09	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
REP 1197521	QC	12	42	0.63	273	0.100	1	2.06	0.018	0.10	0.1	0.02	3.6	<0.1	<0.05	7	<0.5	<0.2
1197524	Soil	7	37	0.90	304	0.136	<1	1.83	0.010	0.47	0.2	<0.01	5.2	0.2	<0.05	7	<0.5	0.3
REP 1197524	QC	7	38	0.93	310	0.139	<1	1.87	0.012	0.49	0.1	<0.01	5.4	0.2	<0.05	7	<0.5	0.3
1197547	Soil	5	28	0.77	464	0.063	<1	1.76	0.012	0.08	<0.1	<0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
REP 1197547	QC	5	28	0.79	480	0.066	1	1.78	0.012	0.09	<0.1	<0.01	4.1	<0.1	<0.05	7	<0.5	<0.2
1197766	Soil	7	18	0.37	478	0.039	<1	1.46	0.011	0.15	<0.1	<0.01	7.0	<0.1	<0.05	7	<0.5	<0.2
REP 1197766	QC	7	18	0.37	476	0.039	1	1.48	0.011	0.16	<0.1	0.02	7.1	<0.1	<0.05	7	<0.5	<0.2
1197557	Soil	10	35	0.55	206	0.088	2	2.05	0.012	0.04	<0.1	<0.01	3.5	<0.1	<0.05	5	0.7	<0.2
REP 1197557	QC	10	34	0.56	196	0.090	2	2.00	0.017	0.04	0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
1197579	Soil	21	21	0.78	362	0.133	<1	1.77	0.013	0.44	<0.1	<0.01	9.8	0.2	<0.05	7	0.7	<0.2
REP 1197579	QC	21	22	0.82	361	0.137	1	1.87	0.016	0.46	<0.1	<0.01	10.5	0.2	<0.05	7	0.6	<0.2
1197611	Soil	23	10	1.33	345	0.091	<1	2.58	0.012	0.93	0.9	0.05	6.6	0.2	<0.05	8	<0.5	<0.2
REP 1197611	QC	23	9	1.33	345	0.092	<1	2.62	0.012	0.92	0.9	0.03	6.8	0.2	<0.05	8	<0.5	<0.2
1196860	Soil	9	27	0.38	604	0.057	2	1.45	0.012	0.20	0.1	0.01	5.6	<0.1	<0.05	5	0.5	<0.2
REP 1196860	QC	9	27	0.39	582	0.054	1	1.42	0.012	0.19	0.1	0.02	5.6	<0.1	<0.05	5	0.6	<0.2
1196877	Soil	10	39	2.28	514	0.191	<1	3.17	0.010	1.11	<0.1	0.02	6.7	0.2	<0.05	10	<0.5	<0.2
REP 1196877	QC	10	40	2.31	500	0.187	<1	3.13	0.011	1.09	<0.1	0.01	6.6	0.2	<0.05	11	<0.5	<0.2
1196888	Soil	26	40	0.73	316	0.130	<1	2.27	0.017	0.56	<0.1	0.02	4.4	0.4	<0.05	7	<0.5	<0.2
REP 1196888	QC	26	40	0.73	324	0.129	<1	2.24	0.018	0.56	<0.1	0.02	4.2	0.4	<0.05	7	<0.5	<0.2
1198514	Soil	13	29	0.47	278	0.059	<1	1.58	0.014	0.10	0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
REP 1198514	QC	13	29	0.47	290	0.059	<1	1.59	0.013	0.11	0.1	0.02	3.5	<0.1	<0.05	6	0.8	<0.2
1198532	Soil	15	10	0.46	357	0.051	<1	1.54	0.010	0.37	<0.1	0.02	5.4	<0.1	<0.05	9	<0.5	<0.2
REP 1198532	QC	14	10	0.46	366	0.050	1	1.53	0.010	0.38	<0.1	0.01	5.0	<0.1	<0.05	9	<0.5	<0.2
1198536	Soil	7	30	1.38	140	0.226	1	2.44	0.025	0.21	<0.1	0.01	7.1	<0.1	<0.05	12	0.8	<0.2
REP 1198536	QC	7	31	1.41	151	0.233	<1	2.49	0.025	0.21	<0.1	0.02	7.2	<0.1	<0.05	13	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

VAN11002506.2

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
1196949	Soil	0.8	31.1	9.5	69	<0.1	17.0	10.1	398	3.13	6.6	1.2	2.4	3.3	29	<0.1	0.4	0.2	73	0.50	0.062
REP 1196949	QC	0.8	31.9	9.6	72	<0.1	16.4	10.5	400	3.18	6.8	1.1	2.7	3.3	29	<0.1	0.4	0.2	74	0.50	0.061
1192161	Soil	0.7	57.5	8.3	238	<0.1	14.4	20.7	650	4.11	3.9	0.5	1.2	3.1	222	<0.1	0.3	0.2	100	0.33	0.019
REP 1192161	QC	0.6	56.4	7.9	235	<0.1	13.9	20.9	638	4.10	3.9	0.5	0.9	3.1	223	<0.1	0.3	0.2	100	0.33	0.018
1192178	Soil	0.2	66.5	31.3	225	0.2	17.6	15.5	507	3.41	3.9	0.5	1.8	1.2	72	0.5	0.4	0.4	101	0.87	0.119
REP 1192178	QC	0.2	66.9	31.6	230	0.1	17.2	15.2	505	3.45	4.2	0.5	1.7	1.3	70	0.4	0.4	0.4	98	0.86	0.118
Reference Materials																					
STD DS8	Standard	13.2	122.0	131.8	346	1.9	41.0	8.3	636	2.54	27.7	2.8	118.2	6.7	68	2.5	6.2	6.8	43	0.69	0.087
STD DS8	Standard	13.4	123.3	132.6	343	1.8	41.0	8.3	617	2.59	27.4	2.8	132.6	6.7	69	2.4	6.2	6.8	44	0.67	0.085
STD DS8	Standard	13.0	111.1	120.7	306	1.7	38.2	7.6	584	2.39	24.3	2.5	110.1	6.4	56	2.1	4.9	6.0	41	0.66	0.079
STD DS8	Standard	15.0	122.7	122.5	332	1.9	41.6	8.5	680	2.66	27.7	2.6	117.7	6.4	63	2.5	5.4	5.8	47	0.77	0.086
STD DS8	Standard	14.1	106.2	123.9	326	1.9	40.2	7.5	606	2.41	28.6	2.9	135.6	7.5	76	2.4	6.2	6.8	43	0.77	0.085
STD DS8	Standard	13.8	106.8	126.5	323	1.9	37.7	7.2	626	2.41	27.7	2.7	105.8	7.3	75	2.4	6.0	6.6	42	0.74	0.087
STD DS8	Standard	13.5	115.1	133.4	323	1.8	40.4	7.9	643	2.64	26.5	2.8	122.3	7.1	67	2.4	5.8	7.1	44	0.70	0.086
STD DS8	Standard	13.7	111.8	128.2	314	1.7	38.3	7.7	615	2.49	25.3	2.7	108.7	6.5	65	2.2	5.7	6.7	42	0.67	0.080
STD DS8	Standard	11.5	97.7	121.1	299	1.7	34.1	6.8	585	2.32	24.2	2.6	108.9	6.6	62	2.2	6.3	6.4	41	0.67	0.082
STD DS8	Standard	13.2	109.0	131.7	308	1.8	36.0	7.4	588	2.38	24.8	2.8	104.2	7.3	70	2.4	6.2	6.8	46	0.66	0.083
STD DS8	Standard	11.5	103.1	119.0	298	1.7	34.7	7.1	579	2.26	25.5	2.5	102.1	5.8	63	2.3	5.7	6.4	39	0.65	0.079
STD DS8	Standard	12.7	102.4	116.5	295	1.8	35.6	7.4	583	2.38	26.5	2.6	120.8	6.5	69	2.3	5.7	6.3	41	0.68	0.080
STD DS8	Standard	11.7	106.0	129.8	293	1.6	34.3	7.0	571	2.24	24.2	2.6	108.8	6.2	59	2.2	5.4	6.7	40	0.63	0.074
STD DS8	Standard	11.3	106.2	126.7	298	1.7	37.1	7.2	560	2.26	24.9	2.6	90.9	6.1	60	2.3	5.7	6.4	40	0.62	0.072
STD DS8	Standard	13.2	108.4	132.4	321	1.8	39.2	7.5	652	2.55	26.8	2.9	103.9	7.2	74	2.2	5.7	6.9	40	0.70	0.087
STD DS8	Standard	13.3	105.1	133.7	325	1.9	40.5	7.7	678	2.68	27.1	2.8	107.9	7.1	73	2.4	5.9	7.0	41	0.72	0.082
STD DS8	Standard	13.1	118.1	124.4	329	1.8	40.6	7.8	621	2.47	27.9	2.7	111.8	6.3	65	2.3	5.9	6.5	43	0.67	0.082
STD DS8	Standard	14.1	118.8	128.3	333	1.9	40.5	7.6	641	2.52	28.2	2.8	104.9	6.9	69	2.5	6.2	6.5	46	0.71	0.083
STD DS8	Standard	12.7	119.6	123.3	333	1.7	38.6	7.8	599	2.44	27.7	2.9	114.0	7.3	67	2.8	6.3	7.2	42	0.65	0.080
STD DS8	Standard	13.5	122.4	126.5	333	1.7	39.6	8.0	612	2.52	28.4	3.0	107.5	7.6	70	2.9	6.0	7.1	45	0.71	0.084
STD DS8	Standard	12.9	115.6	128.5	317	1.7	40.7	7.8	594	2.40	25.3	2.8	108.0	6.8	68	2.1	5.6	6.9	41	0.66	0.080
STD DS8	Standard	15.0	121.0	129.9	336	1.8	41.5	8.2	643	2.59	26.5	2.9	106.8	7.1	73	2.2	5.9	7.0	46	0.71	0.081

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Project: HEN

Report Date: July 19, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

VAN11002506.2

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
1196949	Soil	13	36	0.62	212	0.085	<1	1.76	0.019	0.05	0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
REP 1196949	QC	14	36	0.62	216	0.084	<1	1.79	0.019	0.05	<0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
1192161	Soil	7	29	1.23	257	0.068	<1	2.26	0.019	0.03	<0.1	<0.01	7.2	<0.1	<0.05	7	0.6	<0.2
REP 1192161	QC	7	28	1.24	259	0.067	<1	2.26	0.019	0.03	<0.1	<0.01	7.0	<0.1	<0.05	7	<0.5	<0.2
1192178	Soil	6	30	0.83	168	0.135	<1	1.77	0.050	0.08	<0.1	0.06	9.0	<0.1	<0.05	7	<0.5	<0.2
REP 1192178	QC	5	30	0.85	168	0.138	<1	1.79	0.051	0.08	<0.1	0.07	8.9	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	13	122	0.62	272	0.122	3	0.92	0.098	0.44	3.1	0.21	2.1	5.5	0.22	5	5.7	5.2
STD DS8	Standard	13	121	0.64	282	0.127	2	0.95	0.092	0.44	3.0	0.18	2.1	5.6	0.13	5	5.4	5.3
STD DS8	Standard	13	113	0.61	268	0.108	3	0.91	0.103	0.40	3.1	0.18	1.9	5.3	0.15	4	5.1	4.5
STD DS8	Standard	15	133	0.64	292	0.124	3	0.98	0.102	0.47	3.0	0.20	2.3	5.5	0.15	5	5.7	4.9
STD DS8	Standard	16	119	0.64	287	0.134	3	0.97	0.105	0.46	3.2	0.21	2.3	5.6	0.14	5	5.3	4.8
STD DS8	Standard	16	119	0.64	290	0.122	2	1.00	0.100	0.44	3.1	0.20	2.2	5.7	0.14	5	6.1	5.1
STD DS8	Standard	14	129	0.62	283	0.116	2	0.91	0.075	0.42	3.1	0.24	2.0	5.6	0.16	5	5.2	5.1
STD DS8	Standard	13	122	0.59	262	0.114	2	0.88	0.073	0.41	2.9	0.18	1.9	5.2	0.17	4	4.5	4.3
STD DS8	Standard	13	105	0.58	275	0.111	3	0.83	0.088	0.42	2.8	0.19	2.2	5.2	0.16	4	4.6	4.9
STD DS8	Standard	14	114	0.59	307	0.114	2	0.91	0.101	0.43	3.0	0.19	2.4	5.2	0.10	5	5.3	5.3
STD DS8	Standard	12	109	0.58	254	0.103	2	0.86	0.091	0.40	2.7	0.21	1.9	5.0	0.13	4	4.6	5.3
STD DS8	Standard	15	112	0.60	281	0.115	3	0.94	0.102	0.41	2.9	0.19	2.2	4.8	0.15	5	5.9	5.6
STD DS8	Standard	11	110	0.54	254	0.104	3	0.80	0.068	0.37	2.9	0.21	1.7	5.1	0.16	4	4.7	4.7
STD DS8	Standard	12	111	0.55	256	0.106	2	0.81	0.066	0.39	3.0	0.19	1.5	5.3	0.14	4	4.6	4.6
STD DS8	Standard	15	117	0.64	280	0.125	3	0.95	0.101	0.44	3.2	0.20	2.0	5.8	0.14	5	5.1	5.4
STD DS8	Standard	15	126	0.62	268	0.127	3	0.98	0.099	0.44	3.0	0.19	2.2	5.7	0.16	5	5.1	5.2
STD DS8	Standard	13	119	0.62	272	0.117	3	0.90	0.089	0.44	2.9	0.19	2.0	5.5	0.16	5	5.2	4.5
STD DS8	Standard	15	124	0.65	283	0.126	4	0.94	0.092	0.46	2.8	0.21	2.1	5.4	0.17	5	5.2	4.6
STD DS8	Standard	14	115	0.60	303	0.119	2	0.84	0.078	0.41	2.9	0.20	1.9	5.5	0.16	5	5.3	4.8
STD DS8	Standard	15	119	0.62	311	0.129	2	0.91	0.084	0.43	2.9	0.19	2.1	5.5	0.17	5	5.6	5.0
STD DS8	Standard	13	117	0.59	263	0.117	1	0.91	0.087	0.43	2.6	0.22	2.0	5.3	0.12	4	4.9	5.2
STD DS8	Standard	15	132	0.63	287	0.131	<1	0.96	0.089	0.45	2.8	0.21	2.1	5.3	0.15	5	5.3	5.9



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Project: HEN

Report Date: July 19, 2011

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# QUALITY CONTROL REPORT

VAN11002506.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

VAN11002506.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2





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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 13, 2011
Report Date: July 19, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

VAN11002507.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID:
P.O. Number
Number of Samples: 259

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

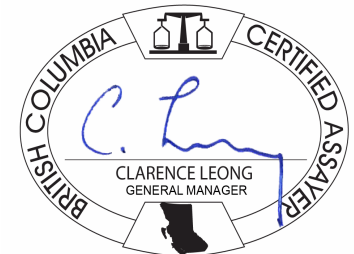
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1192301	Soil	1.2	14.5	8.8	60	<0.1	13.2	15.4	595	4.14	7.8	0.8	2.2	6.5	14	<0.1	0.6	0.2	95	0.15	0.041
1192302	Soil	1.2	14.1	9.8	40	0.2	12.3	9.7	791	2.81	4.8	0.6	2.5	3.3	13	<0.1	0.5	0.2	70	0.15	0.016
1192304	Soil	1.0	22.0	7.3	69	<0.1	15.8	18.4	608	4.31	6.2	0.7	0.9	5.2	32	<0.1	0.8	0.1	98	0.41	0.023
1192305	Soil	3.2	35.3	13.2	126	<0.1	34.7	17.0	1236	6.05	44.2	1.2	1.6	11.3	10	0.2	0.8	0.3	70	0.46	0.044
1192312	Soil	0.9	48.7	7.2	72	<0.1	14.6	16.1	555	4.30	6.7	1.0	5.6	7.3	12	<0.1	0.5	0.1	102	0.16	0.033
1192313	Soil	0.6	16.0	7.3	78	<0.1	10.4	16.0	777	4.17	4.1	1.4	1.2	10.8	22	0.1	0.3	0.1	88	0.29	0.056
1192314	Soil	0.9	14.8	10.6	80	<0.1	9.5	11.6	507	4.36	5.2	1.0	1.8	10.8	13	0.1	0.5	0.1	88	0.15	0.017
1192315	Soil	0.5	21.9	6.1	73	<0.1	11.3	18.9	730	4.76	4.8	1.1	0.6	6.8	29	<0.1	0.4	<0.1	110	0.39	0.041
1192316	Soil	0.6	20.1	9.7	102	<0.1	9.9	22.7	862	5.32	4.1	0.6	0.6	5.9	42	<0.1	0.4	<0.1	115	0.40	0.060
1192317	Soil	0.5	10.2	15.1	65	<0.1	12.9	14.0	625	4.14	7.7	1.2	0.7	9.2	16	<0.1	0.5	0.1	106	0.18	0.029
1192318	Soil	0.7	31.1	16.8	87	<0.1	13.2	19.3	706	4.77	6.3	1.0	1.3	7.9	31	<0.1	0.7	0.1	102	0.40	0.040
1192319	Soil	0.8	23.6	10.8	40	<0.1	9.4	10.1	259	5.24	5.7	1.6	0.9	11.7	20	<0.1	4.4	<0.1	116	0.21	0.013
1192320	Soil	0.6	25.5	8.4	47	0.1	21.9	10.4	317	2.66	8.3	0.8	3.4	4.6	22	<0.1	0.6	0.2	63	0.31	0.025
1192321	Soil	1.0	26.9	9.8	53	<0.1	16.7	9.2	291	3.24	6.8	0.8	1.7	5.9	20	<0.1	0.6	0.1	75	0.31	0.016
1192322	Soil	0.3	20.5	3.9	93	<0.1	11.0	22.7	922	5.68	3.3	0.6	<0.5	8.6	29	<0.1	0.5	<0.1	140	0.44	0.076
1192323	Soil	0.7	18.0	5.9	83	<0.1	12.2	21.4	966	5.07	5.2	1.0	2.7	11.4	33	<0.1	0.8	0.2	128	0.43	0.039
1192324	Soil	0.8	21.9	7.8	66	<0.1	17.9	16.3	636	4.88	8.5	1.4	3.0	10.9	20	0.1	0.9	0.1	115	0.22	0.023
1192325	Soil	3.7	44.8	13.1	179	<0.1	29.9	10.5	578	3.70	196.4	1.2	1.4	4.5	19	0.4	6.6	0.4	92	0.22	0.057
1192326	Soil	1.1	85.3	3.9	99	<0.1	23.1	32.5	632	6.27	6.0	0.6	1.2	1.8	20	<0.1	0.1	<0.1	165	0.63	0.113
1192329	Soil	0.7	35.0	8.6	66	<0.1	23.0	10.8	423	3.29	9.2	0.7	3.1	6.2	31	<0.1	0.7	0.1	77	0.45	0.059
1192330	Soil	1.0	20.1	7.8	63	<0.1	21.6	14.6	479	3.94	7.6	0.6	<0.5	4.2	20	<0.1	0.6	0.1	98	0.19	0.020
1192378	Soil	2.2	65.9	3.3	87	<0.1	185.4	27.4	644	6.17	860.4	0.7	1.7	2.1	17	<0.1	2.6	0.3	150	0.58	0.069
1192379	Soil	2.7	38.2	9.3	129	0.1	49.2	11.6	354	3.63	21.8	1.3	<0.5	10.3	16	0.2	0.5	0.1	88	0.30	0.060
1192382	Soil	0.9	31.2	10.1	54	<0.1	20.1	9.2	351	2.94	8.8	0.8	2.7	6.3	26	<0.1	0.6	0.1	67	0.42	0.033
1192383	Soil	0.4	12.7	7.8	85	<0.1	8.6	22.4	1072	6.09	3.9	1.8	<0.5	12.6	29	<0.1	1.2	<0.1	138	0.46	0.052
1192384	Soil	1.2	51.1	4.7	113	0.1	73.8	30.7	1356	5.11	5.2	1.0	<0.5	17.0	14	<0.1	0.1	<0.1	119	0.40	0.059
1192386	Soil	0.2	15.5	3.7	79	<0.1	27.8	25.4	531	4.19	1.8	0.3	1.0	1.0	20	<0.1	0.1	<0.1	103	0.65	0.118
1192387	Soil	0.5	34.9	9.9	58	0.2	28.4	12.4	1191	2.97	46.0	0.5	1.7	2.2	40	0.1	0.5	0.2	68	4.07	0.094
1192492	Soil	0.8	53.4	8.7	69	0.3	19.5	10.6	2234	3.66	135.7	0.4	3.4	1.0	128	0.2	1.3	0.5	47	12.24	0.186
1192493	Soil	1.5	26.8	8.8	55	0.2	23.7	9.6	408	3.19	62.0	0.4	0.8	3.4	21	<0.1	0.8	0.3	72	0.28	0.032

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1192301	Soil	7	26	0.99	205	0.104	2	2.27	0.008	0.34	0.1	0.01	3.6	0.1	<0.05	8	<0.5	<0.2
1192302	Soil	8	21	0.30	237	0.037	2	1.42	0.007	0.06	0.1	0.10	3.0	0.1	<0.05	5	<0.5	<0.2
1192304	Soil	7	37	1.57	186	0.076	2	2.90	0.007	0.27	<0.1	<0.01	5.1	0.2	<0.05	8	<0.5	<0.2
1192305	Soil	27	18	0.12	200	0.005	2	0.77	0.003	0.08	<0.1	0.11	10.8	<0.1	<0.05	2	<0.5	<0.2
1192312	Soil	8	26	1.16	213	0.135	2	2.83	0.009	0.55	<0.1	0.02	4.7	0.2	<0.05	8	<0.5	<0.2
1192313	Soil	16	17	1.17	266	0.160	2	2.56	0.009	0.69	<0.1	0.01	5.8	0.3	<0.05	8	<0.5	<0.2
1192314	Soil	15	19	0.87	248	0.126	2	2.19	0.010	0.37	<0.1	0.01	5.1	0.2	<0.05	8	<0.5	<0.2
1192315	Soil	11	21	1.48	344	0.201	2	2.80	0.013	0.76	<0.1	0.01	4.0	0.2	<0.05	8	<0.5	<0.2
1192316	Soil	11	18	1.82	320	0.198	1	3.19	0.008	0.87	<0.1	0.01	2.7	0.2	<0.05	9	<0.5	<0.2
1192317	Soil	6	23	1.13	209	0.176	2	2.58	0.008	0.62	0.1	0.01	3.7	0.2	<0.05	8	<0.5	<0.2
1192318	Soil	14	23	1.33	295	0.087	2	2.66	0.008	0.33	<0.1	0.02	6.0	0.1	<0.05	9	<0.5	<0.2
1192319	Soil	20	19	0.45	137	0.035	4	1.59	0.006	0.07	<0.1	0.02	6.4	<0.1	<0.05	5	<0.5	<0.2
1192320	Soil	16	35	0.49	283	0.077	2	1.68	0.013	0.06	0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
1192321	Soil	14	28	0.45	313	0.052	<1	1.78	0.010	0.09	0.1	0.03	5.6	<0.1	<0.05	6	<0.5	<0.2
1192322	Soil	23	18	1.76	522	0.247	1	3.30	0.010	1.21	<0.1	0.01	4.5	0.2	<0.05	10	<0.5	<0.2
1192323	Soil	16	21	1.56	234	0.199	1	2.94	0.012	0.54	<0.1	0.01	4.6	0.3	<0.05	9	<0.5	<0.2
1192324	Soil	17	31	1.01	272	0.107	1	2.58	0.009	0.20	<0.1	0.02	8.1	0.1	<0.05	8	<0.5	<0.2
1192325	Soil	14	34	0.79	354	0.072	1	1.87	0.009	0.39	<0.1	0.03	5.7	0.2	<0.05	5	0.6	<0.2
1192326	Soil	11	18	2.34	420	0.271	<1	3.06	0.020	1.16	0.1	0.01	6.0	0.4	<0.05	13	<0.5	<0.2
1192329	Soil	20	31	0.69	303	0.100	1	1.85	0.017	0.15	0.1	0.04	5.7	0.1	<0.05	6	<0.5	<0.2
1192330	Soil	10	46	1.12	188	0.088	1	2.61	0.008	0.06	<0.1	0.02	4.1	<0.1	<0.05	8	<0.5	<0.2
1192378	Soil	12	45	1.13	173	0.161	<1	2.35	0.040	0.10	<0.1	0.02	8.4	<0.1	<0.05	10	<0.5	0.5
1192379	Soil	18	46	0.99	242	0.098	<1	2.16	0.007	0.35	0.1	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
1192382	Soil	24	31	0.44	430	0.086	<1	1.95	0.013	0.11	0.1	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
1192383	Soil	32	15	1.64	450	0.183	1	3.02	0.010	0.83	<0.1	0.03	8.2	0.3	<0.05	10	<0.5	<0.2
1192384	Soil	37	69	2.27	423	0.339	<1	3.72	0.015	1.84	0.2	<0.01	8.9	0.7	<0.05	14	<0.5	<0.2
1192386	Soil	6	25	1.90	534	0.252	<1	3.17	0.024	0.69	0.3	0.01	4.6	0.2	<0.05	10	0.5	<0.2
1192387	Soil	11	34	2.71	287	0.057	1	1.88	0.018	0.05	0.1	0.06	4.6	<0.1	<0.05	6	<0.5	<0.2
1192492	Soil	7	22	3.24	168	0.034	1	1.84	0.012	0.04	<0.1	0.11	3.9	<0.1	<0.05	7	<0.5	<0.2
1192493	Soil	9	35	0.55	207	0.085	1	2.12	0.009	0.08	0.1	0.03	3.3	0.1	<0.05	6	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1194001	Soil	1.0	36.7	11.1	63	<0.1	23.6	10.1	270	2.87	11.1	1.0	5.5	8.7	25	<0.1	0.6	0.2	65	0.39	0.043
1194002	Soil	2.0	33.0	17.3	83	<0.1	32.7	15.2	595	3.45	37.4	0.7	1.7	5.3	42	0.3	1.0	0.2	78	0.66	0.056
1194003	Soil	1.2	32.7	13.0	68	<0.1	29.1	11.7	434	2.97	29.3	0.6	4.0	5.1	39	0.1	0.9	0.1	68	0.64	0.053
1194004	Soil	1.2	39.4	13.5	72	<0.1	30.9	12.4	468	3.12	26.2	0.6	3.0	4.9	40	0.1	0.9	0.1	70	0.64	0.045
1194005	Soil	1.0	17.7	9.0	53	0.1	20.4	10.1	468	2.70	10.5	0.8	1.9	4.0	40	<0.1	0.5	0.1	62	0.52	0.040
1194006	Soil	0.7	34.0	9.1	56	0.2	28.8	10.3	445	2.63	12.5	0.5	7.9	3.7	42	0.1	0.7	0.2	52	0.58	0.079
1194007	Soil	0.9	27.6	10.6	59	0.1	21.3	8.6	468	2.56	8.3	0.7	2.7	5.4	31	<0.1	0.5	0.2	46	0.47	0.070
1194008	Soil	0.6	125.0	10.8	74	0.1	31.4	17.1	489	2.54	4.9	0.5	1.3	2.1	73	0.2	0.2	0.1	53	0.84	0.056
1194009	Soil	0.6	42.8	8.6	65	<0.1	28.8	15.6	481	3.08	6.6	0.5	1.2	2.5	45	0.1	0.3	<0.1	58	0.64	0.033
1194010	Soil	0.8	38.2	10.9	101	<0.1	23.2	13.3	527	3.59	7.9	0.7	2.9	3.4	47	0.2	0.5	0.2	62	0.62	0.060
1194011	Soil	0.7	29.1	12.0	57	0.1	19.0	9.1	419	2.64	8.5	0.5	3.0	3.6	34	<0.1	0.5	0.2	49	0.54	0.038
1194012	Soil	0.8	23.3	11.5	54	<0.1	22.4	10.3	547	2.83	9.6	0.4	1.9	3.8	38	<0.1	0.5	0.2	60	0.56	0.024
1194013	Soil	1.0	40.4	9.7	60	0.1	31.6	10.4	380	2.90	12.2	0.5	5.0	4.3	38	0.1	0.7	0.2	63	0.51	0.048
1194014	Soil	1.0	23.3	19.6	58	<0.1	20.6	8.9	602	2.80	6.2	0.4	<0.5	3.2	35	<0.1	0.4	0.3	49	0.52	0.037
1194015	Soil	0.8	43.3	9.5	56	<0.1	33.3	10.8	381	2.74	12.9	0.5	6.6	4.2	33	<0.1	0.7	0.2	62	0.55	0.038
1194016	Soil	0.7	48.1	16.5	55	0.2	30.0	10.4	403	2.68	12.8	0.5	18.5	3.4	47	<0.1	0.8	0.2	57	1.42	0.057
1194017	Soil	0.8	27.3	15.7	62	<0.1	25.5	10.4	456	2.80	10.1	0.8	4.9	4.8	33	<0.1	0.6	0.2	58	0.46	0.048
1194590	Soil	0.7	36.8	10.1	65	<0.1	24.0	10.7	477	2.81	8.1	0.9	1.8	3.5	46	0.3	0.6	0.2	59	0.74	0.061
1194591	Soil	1.1	29.3	8.8	66	<0.1	21.2	9.4	384	2.80	8.0	0.7	2.7	3.8	34	0.1	0.6	0.1	58	0.55	0.060
1194592	Soil	0.7	43.9	10.0	71	0.1	26.7	11.3	479	2.92	9.7	0.5	5.4	3.9	51	<0.1	0.7	0.2	58	1.09	0.048
1194593	Soil	0.7	38.9	9.3	74	<0.1	23.2	10.4	386	3.31	8.8	0.5	3.6	4.4	45	<0.1	0.7	0.1	68	0.64	0.046
1194594	Soil	0.7	39.0	9.0	65	<0.1	26.4	9.4	423	2.76	9.0	1.1	4.3	3.8	52	0.2	0.8	0.2	55	0.90	0.040
1194595	Soil	0.8	51.3	13.1	92	0.1	31.4	16.6	881	3.85	7.9	0.5	3.9	5.4	65	0.3	0.8	0.2	83	1.61	0.046
1194596	Soil	1.0	54.8	11.4	97	0.2	24.1	12.7	601	3.76	8.0	0.8	6.1	5.6	43	0.2	0.7	0.2	77	0.80	0.071
1194597	Soil	0.8	52.5	11.4	107	0.2	34.6	15.4	545	3.84	10.0	0.8	3.7	3.8	95	0.3	0.7	0.1	80	3.20	0.058
1194598	Soil	1.1	82.9	29.5	140	0.2	38.8	18.2	716	4.37	33.9	0.7	4.5	12.1	43	0.2	0.7	0.2	88	1.79	0.075
1194599	Soil	0.9	33.5	13.9	101	<0.1	34.3	15.0	716	4.32	22.0	1.0	1.1	9.8	51	0.1	0.5	0.1	73	0.84	0.062
1194600	Soil	5.0	51.0	22.7	97	0.1	36.8	18.8	620	4.76	38.0	1.2	2.5	10.3	33	0.2	0.7	0.3	93	0.56	0.075
1194587	Soil	1.1	24.1	37.8	108	<0.1	13.4	6.6	348	2.40	6.3	0.9	3.9	8.2	16	<0.1	0.4	0.3	29	0.24	0.036
1194588	Soil	1.1	14.7	19.3	196	<0.1	15.3	9.6	483	3.54	6.2	1.2	0.6	8.8	30	0.5	0.5	0.2	50	0.45	0.033

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
1194001	Soil	20	31	0.56	151	0.095	<1	1.50	0.017	0.21	0.2	0.03	4.6	0.1	<0.05	5	<0.5	<0.2
1194002	Soil	15	43	0.76	345	0.069	2	1.94	0.022	0.15	0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
1194003	Soil	16	37	0.71	349	0.084	2	1.68	0.026	0.09	0.2	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
1194004	Soil	17	39	0.72	349	0.088	<1	1.74	0.026	0.10	0.2	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
1194005	Soil	13	32	0.51	330	0.082	2	1.62	0.020	0.09	0.2	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1194006	Soil	14	29	0.63	270	0.067	2	1.25	0.027	0.06	0.2	0.07	3.5	<0.1	<0.05	4	<0.5	<0.2
1194007	Soil	17	25	0.45	376	0.054	2	1.50	0.015	0.19	0.2	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
1194008	Soil	5	87	0.93	338	0.109	3	2.03	0.016	0.19	<0.1	0.03	6.2	<0.1	<0.05	7	0.7	<0.2
1194009	Soil	8	32	0.98	313	0.090	2	1.98	0.015	0.17	0.1	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
1194010	Soil	12	34	0.64	438	0.076	3	2.06	0.016	0.28	0.1	0.02	6.9	<0.1	<0.05	8	0.5	<0.2
1194011	Soil	14	26	0.41	371	0.045	2	1.55	0.012	0.09	0.1	0.02	6.6	<0.1	<0.05	5	<0.5	<0.2
1194012	Soil	14	33	0.50	494	0.066	2	1.83	0.015	0.09	0.2	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2
1194013	Soil	17	32	0.61	313	0.087	2	1.50	0.025	0.10	0.2	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
1194014	Soil	13	27	0.44	419	0.063	2	1.63	0.017	0.11	0.2	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2
1194015	Soil	16	32	0.58	251	0.080	1	1.46	0.023	0.08	0.2	0.04	4.5	<0.1	<0.05	4	<0.5	<0.2
1194016	Soil	16	29	0.57	282	0.069	2	1.64	0.020	0.09	0.2	0.07	4.9	<0.1	<0.05	5	<0.5	<0.2
1194017	Soil	17	35	0.47	333	0.080	2	1.79	0.016	0.14	0.2	0.04	6.0	<0.1	<0.05	5	<0.5	<0.2
1194590	Soil	14	27	0.59	329	0.084	2	1.55	0.032	0.10	0.2	0.04	4.4	<0.1	<0.05	5	0.7	<0.2
1194591	Soil	13	27	0.57	266	0.089	2	1.40	0.025	0.10	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
1194592	Soil	14	26	0.75	303	0.102	2	1.64	0.029	0.11	0.2	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
1194593	Soil	15	31	0.72	278	0.115	2	1.76	0.034	0.14	0.1	0.03	6.1	<0.1	<0.05	6	<0.5	<0.2
1194594	Soil	15	31	0.65	340	0.074	2	1.58	0.027	0.08	0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
1194595	Soil	18	44	1.00	391	0.109	2	2.20	0.037	0.18	<0.1	0.05	8.1	<0.1	<0.05	8	<0.5	<0.2
1194596	Soil	18	30	0.85	409	0.101	1	1.98	0.021	0.22	0.2	0.06	6.1	<0.1	<0.05	7	<0.5	<0.2
1194597	Soil	14	98	1.41	339	0.116	2	2.16	0.023	0.22	<0.1	0.07	6.2	0.1	<0.05	8	<0.5	<0.2
1194598	Soil	37	48	1.41	227	0.142	2	2.29	0.019	0.38	<0.1	0.05	6.7	0.2	<0.05	9	<0.5	<0.2
1194599	Soil	26	66	1.26	355	0.153	3	2.32	0.017	0.50	<0.1	0.02	6.9	0.2	<0.05	10	<0.5	<0.2
1194600	Soil	27	70	1.16	213	0.111	1	2.14	0.016	0.22	<0.1	0.03	7.0	<0.1	<0.05	10	0.6	<0.2
1194587	Soil	16	14	0.45	209	0.116	1	1.60	0.012	0.48	<0.1	0.01	5.1	0.2	<0.05	7	<0.5	<0.2
1194588	Soil	39	26	0.47	304	0.137	2	1.94	0.013	0.43	0.1	0.04	6.5	0.2	<0.05	8	<0.5	<0.2

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 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1194589	Soil	0.8	34.5	29.8	162	0.1	6.0	9.9	469	4.46	5.3	1.7	5.0	12.4	85	1.6	0.6	0.1	29	0.92	0.067
1196349	Soil	1.5	23.9	48.3	135	<0.1	13.4	9.1	621	5.11	8.2	1.5	0.8	17.6	26	0.1	0.4	0.4	39	0.42	0.077
1196350	Soil	1.3	24.1	51.4	145	<0.1	14.3	7.8	512	3.11	6.3	1.0	3.1	9.3	15	<0.1	0.5	0.3	29	0.25	0.052
1194501	Soil	0.6	34.8	11.1	62	0.2	26.7	10.9	397	2.40	10.2	0.6	5.7	3.7	208	0.4	0.9	0.2	56	5.95	0.087
1194502	Soil	0.9	41.7	10.0	58	0.3	32.4	11.8	366	2.71	14.4	1.2	8.1	4.6	145	0.2	1.0	0.2	60	4.88	0.072
1194503	Soil	0.9	39.2	10.4	74	0.1	33.2	12.8	407	3.02	8.4	0.6	11.9	5.0	38	0.1	0.7	0.2	69	0.50	0.082
1194504	Soil	0.6	34.2	8.9	53	0.1	27.4	10.6	430	2.50	12.8	0.6	3.2	4.1	67	0.2	0.8	0.1	57	2.50	0.080
1194505	Soil	0.9	39.1	14.1	65	0.1	36.0	13.0	470	3.02	15.4	0.7	5.4	5.2	45	<0.1	0.9	0.2	70	0.93	0.094
1194506	Soil	1.4	85.3	7.7	97	0.1	23.3	16.3	780	3.37	5.1	0.8	0.9	4.4	57	0.2	0.4	0.1	90	1.10	0.069
1194507	Soil	0.7	57.1	18.6	114	0.1	30.5	22.5	669	4.58	8.3	1.3	1.5	5.5	72	<0.1	0.5	0.2	140	1.03	0.078
1194508	Soil	0.3	83.1	2.9	69	0.2	31.8	22.1	578	4.45	5.8	0.3	2.0	1.2	148	<0.1	0.3	<0.1	110	4.50	0.079
1194509	Soil	0.8	40.2	8.7	49	0.2	33.6	10.7	368	2.36	10.7	0.6	5.8	3.2	123	0.1	0.8	0.1	52	5.75	0.084
1194510	Soil	1.0	20.4	438.0	92	1.3	10.1	20.3	960	5.47	6.8	1.1	<0.5	7.3	216	0.3	0.9	2.7	103	1.19	0.048
1194511	Soil	0.7	32.4	17.6	57	0.2	20.6	12.0	420	2.93	9.7	0.6	4.1	4.8	34	<0.1	0.6	0.2	60	0.59	0.040
1194512	Soil	2.3	65.6	20.4	67	0.2	24.6	15.7	421	3.15	9.4	0.8	1.6	3.9	56	0.2	0.7	0.3	74	0.55	0.040
1194513	Soil	0.7	45.0	8.9	48	0.2	27.5	9.5	396	2.33	11.1	0.6	2.7	3.2	62	<0.1	0.6	0.1	47	3.55	0.100
1194514	Soil	0.6	45.8	8.4	52	0.1	30.7	11.3	346	2.64	12.0	0.6	3.9	4.2	26	<0.1	0.8	0.1	54	0.40	0.059
1194515	Soil	0.5	30.5	7.3	33	<0.1	7.4	6.3	246	1.77	3.2	0.5	<0.5	6.1	16	<0.1	0.4	0.2	41	0.38	0.036
1194516	Soil	0.5	32.7	6.6	114	<0.1	18.8	13.3	468	3.46	7.1	0.7	<0.5	5.3	34	<0.1	0.8	0.1	83	1.53	0.106
1194517	Soil	2.1	237.9	7.4	91	0.4	21.8	14.9	552	3.07	6.9	0.7	3.7	2.9	68	0.2	0.5	0.2	63	2.68	0.092
1194521	Soil	0.5	27.4	14.3	116	0.1	13.7	20.6	894	5.69	4.1	0.8	<0.5	6.3	207	0.2	0.3	0.1	117	0.71	0.067
1194522	Soil	0.6	34.1	9.0	57	<0.1	29.7	11.9	340	2.89	10.7	0.5	2.5	4.6	50	0.1	0.7	0.1	64	0.47	0.050
1194523	Soil	0.7	32.7	15.4	86	0.1	16.7	16.9	658	4.58	4.2	0.6	1.0	5.9	244	<0.1	0.3	0.2	95	2.36	0.070
1194524	Soil	0.8	52.7	11.1	59	0.1	31.9	12.9	340	2.82	10.8	0.5	4.6	3.9	47	0.1	0.7	0.1	66	0.51	0.038
1194525	Soil	0.4	31.7	5.0	60	0.1	11.0	14.5	620	3.51	3.8	0.8	2.5	1.9	115	<0.1	0.4	<0.1	71	5.77	0.077
1194526	Soil	0.7	34.6	7.8	78	0.1	21.3	16.1	548	4.44	8.5	0.5	3.3	4.3	73	0.2	0.5	0.1	94	1.11	0.049
1194527	Soil	0.7	33.2	9.3	98	<0.1	16.2	21.7	832	5.82	5.5	0.8	<0.5	4.3	269	0.2	0.3	<0.1	123	0.77	0.056
1194528	Soil	0.7	35.1	10.4	66	0.1	28.1	12.6	421	2.92	11.1	0.7	2.9	4.4	54	<0.1	0.7	0.1	65	0.59	0.077
1194529	Soil	0.6	29.8	9.5	92	<0.1	22.6	15.2	708	4.22	10.7	0.6	2.3	3.7	81	0.1	0.5	0.1	79	0.81	0.080
1194530	Soil	0.7	18.4	13.7	72	0.1	23.3	12.6	724	2.97	5.8	0.4	0.6	4.2	38	0.2	0.5	0.2	60	0.45	0.048

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1194589	Soil	23	9	0.66	137	0.040	2	2.15	0.019	0.25	<0.1	0.13	7.0	<0.1	<0.05	11	<0.5	<0.2
1196349	Soil	17	15	0.74	253	0.075	1	2.20	0.010	0.45	<0.1	0.02	9.2	<0.1	<0.05	13	<0.5	<0.2
1196350	Soil	18	12	0.54	254	0.175	<1	1.83	0.014	0.77	<0.1	0.03	6.8	0.3	<0.05	9	<0.5	<0.2
1194501	Soil	12	23	1.18	421	0.098	2	1.24	0.034	0.13	0.1	0.04	3.0	<0.1	0.07	4	0.5	<0.2
1194502	Soil	18	31	1.23	436	0.091	2	1.38	0.072	0.19	0.2	0.05	3.9	<0.1	<0.05	4	0.6	<0.2
1194503	Soil	15	40	0.72	247	0.097	3	1.60	0.019	0.27	0.2	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
1194504	Soil	15	27	0.69	294	0.079	2	1.11	0.021	0.09	0.3	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
1194505	Soil	18	39	0.70	333	0.083	2	1.46	0.020	0.12	0.3	0.06	4.9	<0.1	<0.05	5	<0.5	<0.2
1194506	Soil	12	51	0.84	418	0.135	4	2.08	0.035	0.16	0.1	0.01	6.8	<0.1	<0.05	7	<0.5	<0.2
1194507	Soil	17	84	1.38	321	0.206	2	2.53	0.027	0.10	0.1	0.02	9.5	<0.1	<0.05	12	<0.5	<0.2
1194508	Soil	3	77	2.68	434	0.249	1	2.25	0.019	0.25	<0.1	0.07	4.1	0.1	<0.05	7	0.8	<0.2
1194509	Soil	10	40	0.86	469	0.066	<1	1.02	0.015	0.07	0.2	0.04	3.1	<0.1	<0.05	3	<0.5	<0.2
1194510	Soil	23	16	1.35	319	0.050	2	2.26	0.007	0.05	<0.1	0.06	6.3	<0.1	<0.05	10	<0.5	<0.2
1194511	Soil	15	25	0.65	247	0.039	1	1.59	0.011	0.06	0.1	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
1194512	Soil	11	46	0.74	294	0.096	<1	1.78	0.011	0.06	0.2	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
1194513	Soil	11	23	0.57	382	0.053	<1	1.01	0.015	0.06	0.2	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1194514	Soil	13	31	0.57	205	0.072	<1	1.18	0.015	0.08	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
1194515	Soil	17	12	0.37	86	0.008	<1	1.03	0.007	0.10	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
1194516	Soil	22	26	0.97	223	0.058	1	1.70	0.012	0.14	0.1	0.03	5.0	<0.1	<0.05	8	<0.5	<0.2
1194517	Soil	14	38	1.14	267	0.070	3	1.88	0.011	0.19	0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
1194521	Soil	17	18	2.03	502	0.289	2	2.91	0.014	1.07	<0.1	0.01	2.4	0.4	<0.05	9	1.0	<0.2
1194522	Soil	14	32	0.67	290	0.088	<1	1.50	0.026	0.11	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
1194523	Soil	13	25	1.69	517	0.170	2	2.19	0.015	0.58	<0.1	0.02	4.1	0.1	<0.05	7	<0.5	<0.2
1194524	Soil	12	35	0.80	242	0.101	2	1.54	0.019	0.11	0.2	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
1194525	Soil	10	12	1.09	539	0.080	3	1.85	0.012	0.49	<0.1	<0.01	5.5	0.1	<0.05	5	<0.5	<0.2
1194526	Soil	14	27	1.27	388	0.192	1	2.10	0.015	0.52	0.1	0.03	4.1	0.2	<0.05	7	<0.5	<0.2
1194527	Soil	12	21	2.14	428	0.307	<1	2.91	0.017	0.70	<0.1	<0.01	3.5	0.2	<0.05	9	<0.5	<0.2
1194528	Soil	15	30	0.77	312	0.098	2	1.56	0.017	0.26	0.2	0.03	3.7	0.1	<0.05	4	<0.5	<0.2
1194529	Soil	15	27	1.04	409	0.142	2	1.98	0.015	0.37	0.2	0.03	4.2	0.1	<0.05	6	<0.5	<0.2
1194530	Soil	12	31	0.64	392	0.108	4	1.59	0.015	0.37	0.2	<0.01	4.3	0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1194531	Soil	0.9	30.7	11.5	72	0.1	25.5	14.5	426	3.24	10.0	0.7	1.1	4.8	57	0.1	0.8	0.2	74	0.59	0.070
1194532	Soil	0.8	29.7	15.0	56	<0.1	27.4	12.0	375	2.97	12.4	0.5	4.1	4.6	44	<0.1	0.7	0.2	65	0.72	0.087
1194533	Soil	0.9	38.1	10.7	64	0.1	31.6	12.3	529	2.79	12.0	0.7	5.0	5.5	41	<0.1	0.8	0.2	59	1.00	0.064
1194534	Soil	0.3	42.6	6.2	71	<0.1	26.0	20.8	543	4.39	5.4	1.2	0.6	5.5	104	0.2	0.4	<0.1	104	0.72	0.059
1194535	Soil	1.2	24.7	9.3	49	0.2	22.7	9.5	270	2.49	10.1	0.9	16.4	6.4	27	0.1	0.7	0.1	51	0.38	0.039
1194536	Soil	0.9	19.0	9.7	62	0.1	18.4	10.7	682	2.44	5.8	0.5	2.9	4.1	34	<0.1	0.5	0.2	50	0.50	0.057
1198301	Soil	0.9	13.6	9.0	47	<0.1	17.7	7.7	350	2.52	7.0	0.4	1.0	2.9	21	<0.1	0.4	0.1	65	0.24	0.018
1198302	Soil	1.0	22.2	5.0	199	<0.1	15.3	8.5	851	5.07	8.9	0.7	<0.5	3.9	13	0.2	0.3	<0.1	56	0.16	0.118
1198303	Soil	1.1	19.5	8.3	114	0.1	14.3	12.8	1787	4.43	8.8	0.3	0.9	2.0	21	0.1	0.5	0.2	73	0.31	0.054
1198304	Soil	1.0	13.9	10.1	70	<0.1	18.8	10.3	685	2.70	7.2	0.3	<0.5	2.0	21	0.3	0.5	0.1	66	0.22	0.034
1198305	Soil	0.9	20.4	16.7	70	0.1	23.6	12.5	418	3.31	8.5	0.6	<0.5	3.4	22	0.2	0.5	0.2	88	0.31	0.032
1198306	Soil	0.7	10.8	7.5	56	<0.1	18.1	10.2	332	2.35	5.0	0.3	<0.5	1.8	24	0.1	0.4	0.1	60	0.20	0.039
1198307	Soil	1.0	30.2	8.3	96	0.1	22.1	9.7	222	3.81	10.2	0.4	2.1	2.7	20	<0.1	0.6	0.2	87	0.29	0.034
1198308	Soil	1.1	18.7	9.3	65	<0.1	19.8	13.2	754	2.95	6.7	0.3	0.7	2.5	17	0.1	0.5	0.2	79	0.24	0.043
1198309	Soil	0.8	14.9	9.4	49	<0.1	21.1	9.8	219	2.80	8.8	0.4	<0.5	3.0	18	<0.1	0.5	0.2	72	0.20	0.027
1198310	Soil	0.9	29.8	8.3	54	<0.1	21.4	10.7	263	3.21	10.1	0.6	1.2	3.5	27	<0.1	0.6	0.2	71	0.27	0.021
1198311	Soil	0.8	22.6	8.0	56	<0.1	19.7	9.0	287	2.96	9.6	0.3	0.6	2.5	19	0.1	0.5	0.2	69	0.25	0.037
1198312	Soil	0.8	18.9	8.8	49	<0.1	18.5	8.4	253	2.81	9.6	0.4	3.1	3.1	14	<0.1	0.6	0.2	61	0.15	0.023
1198313	Soil	1.0	14.0	9.7	55	0.2	16.5	7.9	466	2.61	7.9	0.4	<0.5	2.7	21	0.1	0.6	0.2	60	0.23	0.021
1198314	Soil	0.8	20.2	11.0	54	<0.1	19.0	8.0	341	2.80	8.7	0.5	4.2	3.4	21	<0.1	0.6	0.2	65	0.23	0.016
1198315	Soil	0.9	23.3	8.9	56	0.2	17.4	9.2	256	3.01	7.8	0.5	1.2	3.1	22	<0.1	0.5	0.2	71	0.29	0.028
1198316	Soil	1.0	17.0	12.6	52	<0.1	16.5	8.8	291	2.89	7.1	0.5	2.6	3.3	22	0.1	0.5	0.2	62	0.24	0.014
1198317	Soil	1.4	30.1	11.0	75	0.2	11.3	8.9	448	3.51	5.4	0.5	<0.5	3.5	16	<0.1	0.4	0.2	68	0.21	0.022
1198318	Soil	1.0	30.2	70.0	52	0.1	17.4	11.7	302	3.03	5.5	0.3	24.3	1.8	17	0.1	0.3	0.6	84	0.21	0.018
1198319	Soil	0.8	58.6	14.3	57	<0.1	13.6	15.6	390	3.88	4.1	0.4	0.5	2.2	25	<0.1	0.3	0.2	110	0.33	0.021
1198320	Soil	1.1	18.8	12.0	52	0.2	16.8	9.8	730	2.81	9.1	0.4	2.1	3.1	22	<0.1	0.6	0.2	67	0.27	0.023
1198321	Soil	0.9	20.9	10.3	45	0.1	20.0	8.8	246	2.66	8.7	0.6	4.5	4.1	19	<0.1	0.6	0.2	58	0.21	0.017
1193623	Soil	0.6	36.6	11.0	64	0.1	26.7	11.2	484	2.84	10.4	0.6	3.7	3.6	45	0.1	0.9	0.2	59	0.75	0.057
1192339	Soil	1.0	18.7	9.5	64	0.1	19.5	9.4	366	2.38	8.7	0.6	6.1	3.1	43	0.3	0.7	0.2	54	0.77	0.072
1192340	Soil	0.7	29.3	13.4	49	<0.1	18.0	8.2	418	3.11	7.7	0.6	0.6	3.0	41	0.1	0.8	0.2	49	0.68	0.031

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1194531	Soil	15	35	0.87	339	0.128	2	1.78	0.022	0.17	0.2	0.04	4.4	0.1	<0.05	5	<0.5	<0.2
1194532	Soil	15	31	0.69	286	0.102	<1	1.41	0.016	0.29	0.2	0.03	4.4	0.1	<0.05	5	1.0	<0.2
1194533	Soil	15	35	0.58	393	0.081	2	1.42	0.016	0.19	0.2	0.02	4.1	0.1	<0.05	5	<0.5	<0.2
1194534	Soil	16	70	1.71	315	0.203	<1	2.05	0.023	0.54	<0.1	0.02	6.0	0.1	<0.05	8	<0.5	<0.2
1194535	Soil	16	30	0.46	193	0.071	<1	1.37	0.015	0.17	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1194536	Soil	11	30	0.48	306	0.078	1	1.34	0.013	0.23	0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
1198301	Soil	10	31	0.43	316	0.065	<1	1.61	0.008	0.04	<0.1	0.02	2.4	<0.1	<0.05	5	0.7	<0.2
1198302	Soil	10	16	0.85	214	0.212	<1	2.66	0.010	0.51	<0.1	<0.01	7.5	0.2	<0.05	11	<0.5	<0.2
1198303	Soil	6	20	0.63	406	0.107	<1	1.83	0.012	0.15	0.1	0.01	4.7	<0.1	<0.05	9	0.6	<0.2
1198304	Soil	8	29	0.47	263	0.071	<1	1.57	0.011	0.05	0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
1198305	Soil	10	38	0.60	265	0.090	2	1.98	0.015	0.06	0.2	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
1198306	Soil	7	32	0.49	249	0.059	<1	1.52	0.009	0.04	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
1198307	Soil	8	31	0.62	171	0.086	<1	2.05	0.014	0.04	0.1	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
1198308	Soil	9	31	0.45	272	0.076	<1	1.91	0.015	0.04	0.1	0.01	3.1	0.1	<0.05	7	<0.5	<0.2
1198309	Soil	9	32	0.46	261	0.066	<1	1.82	0.010	0.03	0.1	<0.01	2.3	0.1	<0.05	6	<0.5	<0.2
1198310	Soil	12	40	0.68	266	0.063	<1	2.03	0.012	0.04	0.1	<0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
1198311	Soil	7	33	0.61	207	0.060	2	1.82	0.013	0.04	0.2	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
1198312	Soil	8	30	0.52	209	0.050	<1	1.72	0.008	0.05	0.2	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
1198313	Soil	9	29	0.45	267	0.051	1	1.56	0.009	0.06	0.1	<0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
1198314	Soil	12	29	0.53	262	0.055	<1	1.67	0.011	0.04	0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
1198315	Soil	9	28	0.59	258	0.095	<1	1.81	0.015	0.06	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
1198316	Soil	12	27	0.58	268	0.078	1	1.84	0.010	0.06	0.1	<0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
1198317	Soil	5	19	0.69	269	0.124	<1	1.70	0.012	0.21	<0.1	0.01	5.8	0.2	<0.05	8	<0.5	<0.2
1198318	Soil	5	36	0.99	169	0.077	<1	2.05	0.012	0.04	0.1	0.02	4.9	0.1	<0.05	7	<0.5	<0.2
1198319	Soil	3	19	1.09	242	0.132	<1	2.28	0.025	0.16	<0.1	0.02	6.2	0.1	<0.05	7	<0.5	<0.2
1198320	Soil	9	29	0.51	329	0.071	<1	1.56	0.011	0.09	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
1198321	Soil	13	31	0.54	336	0.070	<1	1.62	0.014	0.05	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
1193623	Soil	15	30	0.70	329	0.068	<1	1.59	0.028	0.07	0.2	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
1192339	Soil	11	25	0.57	239	0.070	<1	1.19	0.023	0.07	0.4	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
1192340	Soil	20	22	0.50	651	0.024	2	1.64	0.012	0.10	0.2	0.02	7.1	<0.1	<0.05	6	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1192341	Soil	0.8	28.5	12.9	47	0.1	17.5	8.1	412	2.96	7.7	0.6	1.8	3.0	41	0.1	0.7	0.2	48	0.66	0.033
1192344	Soil	0.9	20.4	17.7	43	0.2	19.3	9.1	278	2.58	8.3	0.5	1.8	4.3	23	<0.1	0.7	0.2	55	0.29	0.021
1192345	Soil	0.9	17.9	10.1	58	<0.1	18.2	8.6	255	2.40	8.2	0.5	1.6	2.9	33	0.3	0.5	0.2	57	0.52	0.043
1193504	Soil	0.8	27.1	13.6	79	0.2	22.1	9.5	531	2.46	8.4	0.5	5.8	2.9	51	0.5	0.6	0.2	50	0.93	0.077
1193505	Soil	0.8	33.7	36.7	70	0.3	28.1	11.1	434	2.62	10.5	0.9	5.7	4.0	45	0.2	0.8	0.3	50	0.76	0.069
1193525	Soil	0.7	28.5	33.8	66	0.3	25.4	10.3	496	2.45	10.1	0.7	1.4	3.9	46	0.2	0.7	0.3	47	0.71	0.064
1193534	Soil	1.2	27.6	72.6	68	0.5	30.7	14.3	499	3.69	10.3	0.8	2.9	7.5	26	0.1	0.6	0.4	69	0.40	0.033
1193536	Soil	0.9	34.2	59.9	80	2.0	18.1	12.3	668	3.93	9.4	0.6	<0.5	3.9	24	0.4	0.8	0.4	81	0.41	0.026
1193622	Soil	0.8	29.3	10.5	55	<0.1	27.3	10.0	310	2.80	13.0	1.0	3.7	5.4	28	<0.1	0.8	0.2	60	0.41	0.065
1193690	Soil	0.9	8.0	20.1	62	<0.1	14.3	8.3	513	2.69	4.2	0.3	<0.5	1.9	49	<0.1	0.9	0.2	54	0.40	0.030
1198151	Soil	1.2	11.5	9.4	58	<0.1	12.2	5.8	265	2.66	6.1	0.7	<0.5	10.7	14	0.2	0.6	0.2	50	0.17	0.024
1198153	Soil	1.3	8.6	8.1	54	<0.1	5.9	7.4	597	2.74	4.3	0.3	<0.5	1.8	18	<0.1	0.3	0.1	74	0.21	0.074
1198154	Soil	1.0	9.1	5.0	101	<0.1	9.6	16.2	1238	4.67	6.1	0.4	<0.5	3.4	25	0.1	0.3	<0.1	74	0.32	0.062
1198156	Soil	1.5	23.5	7.7	50	<0.1	9.4	8.4	253	3.02	4.2	0.4	<0.5	0.9	19	0.1	0.2	0.2	81	0.25	0.034
1198158	Soil	1.4	11.5	10.6	59	<0.1	16.9	8.8	965	2.55	6.4	0.7	<0.5	6.3	19	0.2	0.5	0.2	57	0.16	0.019
1198159	Soil	1.3	10.5	10.9	53	<0.1	9.7	8.1	459	2.66	5.1	0.6	<0.5	3.1	15	0.1	0.3	0.1	57	0.21	0.026
1198161	Soil	1.6	14.0	10.6	56	<0.1	16.3	8.6	359	2.83	8.6	1.0	<0.5	9.8	17	<0.1	0.7	0.2	57	0.15	0.019
1198162	Soil	1.2	11.0	9.2	40	<0.1	10.7	5.6	396	2.52	7.7	0.4	<0.5	1.5	11	<0.1	0.4	0.2	63	0.09	0.030
1198163	Soil	1.3	10.0	14.6	51	<0.1	10.3	8.1	283	3.00	6.6	0.5	3.6	3.3	17	<0.1	0.4	0.2	65	0.21	0.024
1198164	Soil	0.8	19.1	15.3	50	<0.1	17.7	10.3	276	3.14	8.2	0.8	<0.5	5.7	20	<0.1	0.6	0.3	62	0.26	0.019
1198165	Soil	1.9	17.6	8.7	72	<0.1	14.2	11.0	334	3.70	6.7	0.4	4.0	3.7	15	0.1	0.4	0.2	66	0.18	0.036
1198167	Soil	2.4	23.3	9.1	77	<0.1	11.6	10.0	315	3.58	5.1	0.6	1.6	2.9	23	0.1	0.4	0.2	87	0.25	0.036
1198168	Soil	1.1	11.3	9.2	71	<0.1	14.7	10.8	424	3.41	8.2	0.5	2.0	3.7	17	0.1	0.4	0.2	68	0.23	0.038
1198169	Soil	1.3	14.8	11.2	60	<0.1	19.3	12.1	388	3.05	7.6	0.8	3.2	4.9	21	<0.1	0.6	0.2	65	0.27	0.018
1198170	Soil	1.1	10.8	9.5	46	<0.1	12.8	7.6	217	2.67	7.4	0.5	5.6	4.4	18	0.1	0.4	0.2	54	0.22	0.023
1198171	Soil	0.7	13.3	7.0	64	<0.1	15.0	11.2	671	3.64	7.6	1.1	1.1	7.2	24	<0.1	0.4	0.1	59	0.44	0.053
1198387	Soil	1.9	14.4	6.6	56	<0.1	13.3	10.1	291	2.97	6.0	0.4	0.6	3.2	18	0.1	0.3	0.1	60	0.25	0.036
1198388	Soil	1.0	20.7	7.3	70	<0.1	12.0	12.5	440	3.18	5.0	0.7	2.4	3.5	24	<0.1	0.3	0.1	67	0.46	0.066
1198389	Soil	1.2	44.7	10.4	50	<0.1	44.2	15.0	595	3.12	8.0	1.9	1.8	5.3	45	<0.1	0.3	0.1	80	0.57	0.062
1198390	Soil	1.3	14.5	11.9	53	<0.1	17.7	10.4	403	3.21	8.6	0.8	2.3	5.3	17	<0.1	0.5	0.2	63	0.20	0.029

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
1192341	Soil	19	22	0.48	634	0.026	1	1.58	0.013	0.10	0.2	0.03	6.9	<0.1	<0.05	6	<0.5	<0.2
1192344	Soil	15	29	0.40	613	0.051	<1	1.57	0.012	0.11	0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
1192345	Soil	10	25	0.55	235	0.076	<1	1.33	0.022	0.07	0.2	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
1193504	Soil	12	25	0.61	341	0.066	2	1.33	0.026	0.08	0.2	0.04	3.5	<0.1	<0.05	4	0.5	<0.2
1193505	Soil	15	28	0.61	452	0.065	2	1.35	0.024	0.06	0.2	0.05	3.6	<0.1	<0.05	4	0.8	<0.2
1193525	Soil	14	26	0.57	471	0.060	<1	1.30	0.028	0.08	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
1193534	Soil	20	52	0.75	544	0.088	<1	2.06	0.017	0.29	0.1	0.06	6.0	0.1	<0.05	7	<0.5	<0.2
1193536	Soil	9	29	0.64	526	0.047	<1	1.80	0.013	0.09	0.1	0.06	9.3	<0.1	<0.05	7	<0.5	<0.2
1193622	Soil	15	36	0.57	275	0.081	<1	1.67	0.014	0.12	0.2	0.03	6.3	<0.1	<0.05	5	<0.5	<0.2
1193690	Soil	7	27	0.57	657	0.038	<1	1.84	0.012	0.07	0.1	0.02	4.4	<0.1	<0.05	8	<0.5	<0.2
1198151	Soil	9	19	0.29	189	0.034	<1	1.34	0.009	0.16	0.2	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
1198153	Soil	8	13	0.59	186	0.118	<1	1.34	0.015	0.12	0.2	0.01	2.1	<0.1	<0.05	8	<0.5	<0.2
1198154	Soil	6	15	1.24	238	0.200	3	3.14	0.010	0.85	<0.1	0.01	2.2	0.3	<0.05	9	<0.5	<0.2
1198156	Soil	7	17	0.61	300	0.122	<1	1.85	0.019	0.22	0.1	0.01	2.6	0.2	<0.05	8	<0.5	<0.2
1198158	Soil	12	25	0.34	343	0.042	<1	1.60	0.009	0.06	0.1	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
1198159	Soil	9	17	0.42	221	0.066	<1	1.36	0.010	0.11	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
1198161	Soil	11	28	0.42	187	0.056	<1	1.71	0.008	0.11	0.1	0.08	3.4	0.1	<0.05	5	<0.5	<0.2
1198162	Soil	10	21	0.32	153	0.033	<1	1.49	0.008	0.05	0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
1198163	Soil	10	20	0.59	174	0.087	<1	1.80	0.010	0.12	<0.1	0.04	3.2	0.1	<0.05	7	<0.5	<0.2
1198164	Soil	13	30	0.47	284	0.062	<1	1.69	0.011	0.08	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
1198165	Soil	8	25	0.68	183	0.117	3	2.23	0.011	0.21	0.2	0.01	2.5	<0.1	0.14	7	<0.5	<0.2
1198167	Soil	11	20	0.61	368	0.145	2	2.23	0.016	0.17	0.2	0.01	3.9	0.1	<0.05	8	<0.5	<0.2
1198168	Soil	10	27	0.61	186	0.100	3	2.15	0.012	0.26	0.2	<0.01	2.4	0.1	<0.05	7	<0.5	<0.2
1198169	Soil	12	33	0.44	294	0.061	2	1.86	0.015	0.07	0.2	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
1198170	Soil	9	23	0.41	202	0.059	1	1.54	0.010	0.06	0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
1198171	Soil	12	19	0.63	406	0.078	2	1.82	0.015	0.31	0.1	0.06	6.7	0.2	<0.05	7	<0.5	<0.2
1198387	Soil	9	20	0.68	226	0.102	1	1.94	0.009	0.20	0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
1198388	Soil	10	20	0.82	316	0.138	<1	1.98	0.014	0.46	0.2	0.03	2.7	0.1	<0.05	6	<0.5	<0.2
1198389	Soil	20	72	0.83	292	0.089	2	1.83	0.016	0.06	0.2	0.04	3.2	<0.1	<0.05	6	0.6	<0.2
1198390	Soil	11	27	0.43	165	0.055	1	1.89	0.008	0.10	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2

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 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1198391	Soil	1.1	12.6	13.2	78	<0.1	9.1	10.9	629	4.07	6.8	0.6	0.7	3.8	12	<0.1	0.3	0.2	81	0.18	0.046
1198392	Soil	0.7	8.9	7.6	34	<0.1	6.2	5.1	195	1.86	3.9	0.4	1.8	1.3	12	<0.1	0.2	0.1	55	0.14	0.027
1198393	Soil	0.9	24.3	7.1	83	<0.1	9.8	15.6	721	4.22	5.7	0.7	0.6	5.1	19	0.2	0.3	0.1	100	0.38	0.049
1198394	Soil	0.8	25.1	17.0	73	<0.1	12.6	14.9	549	4.79	6.5	1.1	1.0	6.0	19	0.1	0.4	0.2	82	0.29	0.043
1198395	Soil	0.7	20.7	4.8	97	<0.1	9.0	20.9	630	5.13	3.8	0.4	0.6	2.2	37	<0.1	0.2	<0.1	101	0.75	0.101
1198396	Soil	1.0	13.5	8.7	47	<0.1	13.1	8.8	274	2.77	6.5	1.0	1.1	5.9	22	<0.1	0.3	0.1	61	0.31	0.023
1198397	Soil	1.2	15.1	9.6	54	<0.1	21.0	9.1	350	3.02	10.0	0.6	1.7	5.0	20	0.1	0.6	0.2	65	0.22	0.018
1198398	Soil	0.9	24.4	7.1	66	<0.1	15.8	9.6	302	2.77	5.5	0.7	0.7	3.7	29	0.1	0.5	0.1	56	0.50	0.063
1198399	Soil	8.8	25.4	8.3	86	<0.1	8.5	16.3	533	4.82	4.2	0.4	<0.5	2.0	19	<0.1	0.2	0.2	107	0.32	0.080
1198400	Soil	1.2	8.8	10.3	48	<0.1	6.9	6.2	455	3.05	4.3	0.6	1.4	2.4	12	0.1	0.5	0.2	68	0.13	0.027
1198386	Soil	0.8	23.4	6.8	66	<0.1	15.4	10.4	317	2.81	5.3	0.6	3.2	3.7	26	<0.1	0.4	0.1	56	0.47	0.062
1196951	Soil	0.5	24.3	6.1	58	<0.1	9.1	13.7	675	4.30	2.9	1.4	1.2	11.2	16	<0.1	0.2	<0.1	85	0.46	0.049
1196984	Soil	1.1	8.7	7.6	50	<0.1	10.7	9.0	465	2.90	4.7	0.5	0.7	3.2	16	<0.1	0.3	0.1	60	0.22	0.072
1196985	Soil	0.9	9.4	8.4	81	<0.1	11.7	12.7	1459	3.23	3.8	0.5	5.4	3.1	23	0.2	0.4	0.2	63	0.31	0.069
1196986	Soil	0.7	14.3	7.4	84	<0.1	10.8	13.1	623	4.11	6.2	1.4	0.8	8.3	19	<0.1	0.3	<0.1	71	0.21	0.029
1198086	Soil	1.0	23.5	7.0	167	<0.1	53.3	20.7	778	6.46	6.1	1.0	<0.5	6.1	25	<0.1	0.4	0.1	197	0.29	0.040
1198087	Soil	0.7	17.4	7.9	93	<0.1	16.5	12.9	494	3.62	6.6	0.5	1.3	5.9	29	<0.1	0.5	0.1	80	0.25	0.039
1198088	Soil	0.7	25.2	6.0	83	<0.1	15.6	13.7	819	3.25	5.2	0.5	0.7	5.1	27	<0.1	0.4	0.1	78	0.43	0.037
1198089	Soil	1.6	10.5	7.9	46	<0.1	13.5	7.9	292	2.96	6.0	0.6	0.6	4.1	13	<0.1	0.5	0.2	63	0.18	0.017
1198090	Soil	0.4	13.2	23.1	39	<0.1	5.6	5.8	758	2.16	1.4	1.7	0.7	19.8	26	<0.1	0.5	0.2	30	0.67	0.029
1198091	Soil	0.5	11.9	14.5	38	<0.1	4.8	5.4	645	2.22	1.4	1.8	0.9	19.7	23	<0.1	0.5	0.1	31	0.57	0.024
1198092	Soil	0.7	13.6	8.4	109	<0.1	8.4	16.0	835	5.48	5.4	3.0	0.7	14.6	15	<0.1	0.4	<0.1	84	0.22	0.075
1198093	Soil	0.9	13.5	38.8	72	0.2	16.8	9.1	426	2.82	7.2	0.6	1.0	4.8	17	0.2	0.4	0.5	61	0.17	0.026
1198094	Soil	0.6	16.8	36.4	69	<0.1	10.6	11.6	456	3.23	3.5	1.1	2.5	11.1	32	<0.1	0.3	0.4	57	0.32	0.024
1198095	Soil	0.7	19.4	5.6	89	<0.1	14.0	15.7	587	4.02	3.5	1.1	<0.5	10.9	32	<0.1	0.3	<0.1	76	0.35	0.032
1198096	Soil	2.8	21.7	6.1	86	<0.1	12.0	11.8	506	4.17	6.7	0.7	0.8	8.3	22	<0.1	0.3	0.1	80	0.25	0.027
1198097	Soil	1.0	16.6	24.1	105	<0.1	7.3	16.1	686	5.35	3.7	1.7	1.3	10.1	22	<0.1	0.2	0.2	77	0.44	0.100
1197777	Soil	1.4	23.2	6.5	106	<0.1	7.4	12.5	702	3.60	2.4	1.0	0.8	8.1	63	<0.1	0.2	0.2	71	0.70	0.117
1197778	Soil	0.7	21.5	8.1	54	<0.1	22.0	10.9	487	2.91	9.9	0.8	2.5	4.8	27	<0.1	0.6	0.2	58	0.47	0.038
1197779	Soil	0.8	21.1	8.2	55	<0.1	20.3	11.1	533	3.06	9.7	0.8	1.6	4.9	28	<0.1	0.6	0.2	59	0.48	0.039

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Project: HEN  
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1198391	Soil	6	18	0.81	193	0.102	<1	2.04	0.008	0.36	0.1	0.06	4.7	0.2	<0.05	9	<0.5	<0.2
1198392	Soil	7	14	0.41	89	0.084	<1	1.23	0.007	0.12	0.1	0.03	1.1	0.1	<0.05	7	<0.5	<0.2
1198393	Soil	14	19	1.25	242	0.156	<1	2.49	0.009	0.39	<0.1	0.02	2.4	0.2	<0.05	9	<0.5	<0.2
1198394	Soil	8	19	0.36	222	0.032	1	1.64	0.009	0.08	<0.1	0.03	7.1	<0.1	<0.05	6	<0.5	<0.2
1198395	Soil	5	13	1.49	320	0.227	2	2.82	0.013	0.91	<0.1	<0.01	2.0	0.3	<0.05	9	<0.5	<0.2
1198396	Soil	24	27	0.48	303	0.066	<1	1.72	0.011	0.08	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
1198397	Soil	10	34	0.42	242	0.058	1	1.97	0.009	0.06	0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1198398	Soil	12	22	0.69	292	0.116	<1	1.72	0.018	0.27	0.2	0.04	2.8	0.1	<0.05	5	0.8	<0.2
1198399	Soil	5	11	1.28	286	0.215	<1	2.91	0.012	0.77	0.1	0.02	3.0	0.3	<0.05	9	<0.5	<0.2
1198400	Soil	7	14	0.32	216	0.065	1	1.15	0.008	0.13	0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
1198386	Soil	12	22	0.70	291	0.118	<1	1.71	0.017	0.27	0.2	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
1196951	Soil	23	12	0.89	310	0.109	2	1.96	0.009	0.57	<0.1	0.02	10.0	0.2	<0.05	6	<0.5	<0.2
1196984	Soil	7	18	0.51	194	0.087	<1	1.66	0.010	0.25	0.1	0.02	2.0	0.1	<0.05	6	<0.5	<0.2
1196985	Soil	6	20	0.60	285	0.124	1	1.78	0.012	0.32	<0.1	<0.01	1.9	0.2	<0.05	7	<0.5	<0.2
1196986	Soil	11	18	0.96	234	0.141	1	2.35	0.009	0.86	<0.1	0.02	5.8	0.4	<0.05	9	<0.5	<0.2
1198086	Soil	18	126	2.69	384	0.218	<1	3.72	0.016	1.42	<0.1	0.02	16.4	0.4	<0.05	14	<0.5	<0.2
1198087	Soil	14	30	0.88	283	0.140	<1	2.33	0.011	0.46	<0.1	<0.01	3.0	0.2	<0.05	7	<0.5	<0.2
1198088	Soil	10	25	0.85	346	0.117	<1	2.02	0.013	0.29	<0.1	0.01	3.0	0.1	<0.05	6	<0.5	<0.2
1198089	Soil	8	24	0.36	256	0.045	1	1.58	0.008	0.09	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
1198090	Soil	93	3	0.39	162	0.009	<1	1.41	0.009	0.12	<0.1	0.08	2.1	0.1	<0.05	5	<0.5	<0.2
1198091	Soil	62	5	0.39	157	0.009	1	1.46	0.009	0.13	<0.1	0.09	2.8	0.1	<0.05	5	<0.5	<0.2
1198092	Soil	7	14	0.99	238	0.167	3	2.68	0.008	0.77	<0.1	<0.01	4.5	0.4	<0.05	11	<0.5	<0.2
1198093	Soil	9	28	0.51	206	0.071	1	1.93	0.010	0.15	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
1198094	Soil	31	17	0.81	226	0.146	<1	1.98	0.009	0.29	<0.1	0.02	3.2	0.2	<0.05	6	<0.5	<0.2
1198095	Soil	22	31	1.50	264	0.121	2	2.42	0.007	0.42	<0.1	0.01	3.5	0.2	<0.05	7	<0.5	<0.2
1198096	Soil	12	22	0.98	190	0.174	<1	2.59	0.015	0.78	<0.1	<0.01	4.8	0.3	0.06	8	<0.5	<0.2
1198097	Soil	10	13	1.01	268	0.139	2	2.58	0.010	0.96	0.1	0.01	5.4	0.4	<0.05	9	0.7	<0.2
1197777	Soil	16	12	1.03	268	0.051	<1	2.12	0.006	0.21	<0.1	0.01	3.2	0.1	<0.05	8	<0.5	<0.2
1197778	Soil	16	28	0.54	309	0.058	2	1.51	0.019	0.07	0.1	0.05	3.9	<0.1	<0.05	5	<0.5	<0.2
1197779	Soil	17	26	0.55	311	0.052	1	1.55	0.018	0.07	0.2	0.06	4.4	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1197780	Soil		0.4	9.1	4.3	87	<0.1	8.5	18.5	563	4.76	3.3	0.5	1.1	7.4	34	<0.1	0.2	<0.1	63	0.48	0.097
1197781	Soil		0.8	12.1	7.2	48	<0.1	11.3	8.0	312	2.59	6.3	0.4	2.7	3.6	20	0.1	0.3	0.1	51	0.27	0.036
1197782	Soil		0.8	15.2	5.8	92	<0.1	8.4	18.3	823	5.26	2.8	0.9	0.8	7.2	25	<0.1	0.2	<0.1	86	0.55	0.131
1197783	Soil		0.8	10.7	6.2	62	<0.1	11.0	9.2	282	3.03	5.4	0.4	1.3	3.5	24	0.1	0.3	0.1	67	0.34	0.045
1197784	Soil		0.8	14.9	7.1	66	<0.1	16.4	7.3	287	2.35	7.3	0.6	2.0	2.7	30	0.3	0.5	0.1	55	0.47	0.052
1197793	Soil		1.3	34.2	6.2	98	<0.1	11.7	19.0	822	5.43	4.8	0.8	1.5	6.6	26	0.1	0.3	<0.1	127	0.37	0.037
1197794	Soil		6.3	47.7	6.7	87	<0.1	11.1	17.3	888	5.28	4.6	1.0	0.9	7.0	24	<0.1	0.4	0.1	121	0.45	0.071
1197795	Soil		0.6	49.2	8.1	115	<0.1	11.4	17.6	910	6.05	4.9	0.7	0.7	5.7	19	<0.1	0.3	<0.1	134	0.42	0.071
1197796	Soil		0.8	23.3	7.1	89	<0.1	15.2	16.0	793	4.59	7.8	0.5	2.2	4.7	30	<0.1	0.4	0.1	111	0.44	0.044
1197797	Soil		0.8	25.8	8.8	87	<0.1	15.6	17.6	569	4.57	7.3	0.6	1.4	5.1	34	0.2	0.5	0.1	114	0.47	0.049
1197798	Soil		0.9	14.5	7.9	61	<0.1	18.1	10.8	474	2.95	7.3	0.4	<0.5	3.7	22	<0.1	0.5	0.2	71	0.26	0.021
1197799	Soil		0.8	20.2	8.1	54	<0.1	19.9	9.4	289	3.06	9.5	0.8	2.4	6.9	23	<0.1	0.6	0.1	65	0.27	0.019
1197800	Soil		0.8	14.5	10.3	52	<0.1	16.3	8.7	267	2.84	7.9	0.7	2.0	4.4	17	<0.1	0.8	0.2	60	0.24	0.017
1192355	Soil		1.1	19.7	33.8	68	0.2	16.9	7.0	259	2.78	11.3	0.9	4.5	6.5	15	0.3	0.4	0.8	57	0.19	0.028
1192371	Soil		2.1	12.5	19.5	55	0.3	6.6	3.5	200	2.08	54.2	0.6	6.9	2.3	9	0.2	0.7	1.0	55	0.08	0.041
1192372	Soil		1.8	10.2	15.5	53	0.2	8.4	4.3	496	2.32	21.3	0.4	3.0	2.7	12	0.3	0.5	0.4	64	0.13	0.040
1192373	Soil		1.7	32.0	11.5	59	0.1	13.3	10.6	488	2.59	36.3	1.4	3.7	9.9	23	<0.1	1.4	0.4	40	0.26	0.026
1192374	Soil		0.6	32.2	32.0	37	<0.1	10.4	6.7	261	2.15	13.8	1.1	1.4	8.1	17	<0.1	0.9	0.3	29	0.21	0.018
1197223	Soil		0.4	4.9	5.2	66	<0.1	4.3	11.6	1051	4.06	1.8	1.6	0.7	14.3	21	<0.1	0.1	<0.1	52	0.40	0.090
1197225	Soil		0.4	4.7	4.7	70	<0.1	4.5	11.5	1024	4.06	1.6	1.5	1.1	12.6	19	<0.1	<0.1	<0.1	51	0.38	0.091
1197226	Soil		0.9	19.2	8.5	53	<0.1	19.0	10.3	352	2.82	8.3	0.7	1.6	4.8	21	<0.1	0.5	0.1	67	0.25	0.016
1197227	Soil		0.9	14.9	6.0	106	<0.1	10.1	16.0	808	5.00	5.1	0.8	1.6	13.0	31	<0.1	0.2	<0.1	72	0.44	0.052
1197228	Soil		0.7	42.4	9.8	34	<0.1	8.0	5.6	160	2.05	5.2	1.1	1.2	20.6	12	<0.1	0.4	<0.1	34	0.17	0.016
1197229	Soil		0.3	33.4	2.0	79	<0.1	8.4	16.3	609	4.62	2.4	0.8	<0.5	5.3	16	<0.1	0.1	<0.1	129	0.44	0.091
1197230	Soil		0.5	55.7	2.0	78	<0.1	13.3	36.7	780	6.17	1.8	0.4	0.9	4.2	26	<0.1	0.1	<0.1	192	0.55	0.021
1197231	Soil		0.4	53.7	3.5	76	<0.1	7.1	16.4	815	5.34	2.3	0.9	0.9	9.4	27	<0.1	0.2	<0.1	129	0.52	0.061
1197232	Soil		0.4	29.4	4.7	89	<0.1	8.5	20.3	792	5.20	2.7	0.5	<0.5	5.8	23	<0.1	0.2	<0.1	109	0.36	0.041
1197233	Soil		0.2	59.2	2.6	83	<0.1	6.1	24.3	873	5.55	0.9	0.5	<0.5	6.2	36	<0.1	0.1	<0.1	126	0.73	0.093
1197234	Soil		0.4	30.0	7.1	72	<0.1	14.7	20.6	946	5.33	6.7	0.9	1.6	5.2	25	<0.1	0.5	0.1	131	0.89	0.026
1197235	Soil		0.8	18.9	9.0	62	<0.1	13.1	12.5	623	3.55	6.7	1.0	1.8	7.0	21	0.1	0.8	0.1	80	0.47	0.041

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	0.2
1197780	Soil	20	12	1.41	391	0.187	<1	3.15	0.009	0.66	<0.1	0.01	1.3	0.3	<0.05	8	<0.5	<0.2
1197781	Soil	9	17	0.47	204	0.043	2	1.57	0.009	0.09	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
1197782	Soil	9	13	1.22	359	0.093	2	3.04	0.008	0.66	0.1	0.02	7.4	0.2	<0.05	10	<0.5	<0.2
1197783	Soil	8	19	0.67	191	0.102	2	1.77	0.010	0.12	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
1197784	Soil	11	25	0.53	229	0.069	2	1.46	0.017	0.06	0.2	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1197793	Soil	16	21	1.82	406	0.219	2	3.32	0.009	0.87	<0.1	<0.01	4.1	0.2	<0.05	10	<0.5	<0.2
1197794	Soil	8	19	1.37	371	0.108	1	2.64	0.007	0.44	0.1	<0.01	5.8	0.2	<0.05	10	<0.5	<0.2
1197795	Soil	5	22	1.57	469	0.122	1	2.85	0.010	0.74	<0.1	0.01	9.7	0.2	<0.05	11	<0.5	<0.2
1197796	Soil	12	29	1.36	416	0.177	1	2.81	0.013	0.63	<0.1	0.01	4.1	0.2	<0.05	8	<0.5	<0.2
1197797	Soil	9	33	1.46	286	0.185	2	2.91	0.023	0.26	0.1	<0.01	5.6	<0.1	<0.05	9	<0.5	<0.2
1197798	Soil	10	31	0.57	322	0.080	1	1.95	0.011	0.09	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
1197799	Soil	20	35	0.62	255	0.091	1	1.83	0.013	0.11	0.1	0.03	4.4	<0.1	<0.05	5	0.8	<0.2
1197800	Soil	9	26	0.49	242	0.058	<1	1.55	0.010	0.07	0.1	0.08	2.5	<0.1	<0.05	4	<0.5	<0.2
1192355	Soil	14	29	0.43	207	0.062	2	2.00	0.011	0.08	0.1	0.06	2.9	0.1	<0.05	6	<0.5	<0.2
1192371	Soil	10	17	0.18	104	0.056	1	0.92	0.009	0.08	0.1	0.03	1.1	0.2	<0.05	6	<0.5	<0.2
1192372	Soil	10	21	0.24	128	0.060	<1	1.14	0.009	0.06	0.1	0.03	1.3	0.1	<0.05	6	<0.5	<0.2
1192373	Soil	38	20	0.26	465	0.010	1	1.30	0.007	0.14	<0.1	0.09	3.7	0.1	<0.05	3	<0.5	<0.2
1192374	Soil	30	17	0.24	350	0.011	<1	1.25	0.007	0.15	<0.1	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
1197223	Soil	35	5	0.93	329	0.119	2	2.16	0.009	1.17	<0.1	0.02	4.6	0.4	<0.05	6	<0.5	<0.2
1197225	Soil	34	6	0.91	319	0.125	3	2.10	0.010	1.19	<0.1	0.03	4.3	0.4	<0.05	6	<0.5	<0.2
1197226	Soil	16	35	0.56	254	0.077	<1	1.88	0.014	0.06	0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
1197227	Soil	20	14	1.23	357	0.213	2	3.14	0.011	0.91	<0.1	<0.01	2.7	0.5	<0.05	10	<0.5	<0.2
1197228	Soil	12	15	0.28	102	0.046	1	1.43	0.008	0.13	0.2	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
1197229	Soil	7	19	1.68	212	0.177	<1	2.74	0.027	0.77	<0.1	<0.01	5.5	0.3	<0.05	10	<0.5	<0.2
1197230	Soil	27	8	2.56	451	0.184	3	4.10	0.018	0.86	<0.1	<0.01	4.8	0.4	<0.05	8	<0.5	<0.2
1197231	Soil	31	14	1.94	616	0.243	3	3.52	0.012	1.24	<0.1	<0.01	9.0	0.5	<0.05	10	<0.5	<0.2
1197232	Soil	28	15	1.90	445	0.219	3	3.42	0.010	1.19	<0.1	<0.01	3.4	0.4	<0.05	9	<0.5	<0.2
1197233	Soil	14	8	2.38	516	0.244	1	3.60	0.023	1.13	<0.1	<0.01	4.5	0.3	<0.05	8	<0.5	<0.2
1197234	Soil	19	18	1.21	429	0.057	7	2.99	0.013	0.36	<0.1	0.11	11.1	0.2	<0.05	8	<0.5	<0.2
1197235	Soil	23	21	0.51	748	0.054	3	1.91	0.012	0.11	<0.1	0.20	8.2	0.2	<0.05	6	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1197236	Soil	1.6	16.1	10.6	91	<0.1	9.0	12.0	912	4.58	5.1	1.9	2.1	21.9	30	<0.1	1.1	<0.1	80	0.41	0.054
1197237	Soil	0.8	67.3	11.7	116	0.2	8.1	32.8	2120	9.86	6.0	1.8	1.2	8.6	18	<0.1	2.2	<0.1	202	1.15	0.074
1197238	Soil	1.1	15.3	11.2	62	<0.1	11.2	9.9	551	3.14	8.0	0.8	1.3	2.1	18	0.2	0.9	0.1	73	0.28	0.042
1197239	Soil	1.0	18.4	78.6	93	<0.1	9.9	13.1	578	4.56	6.1	2.2	0.5	12.9	21	0.1	0.6	0.9	77	0.22	0.024
1197240	Soil	1.0	19.7	8.6	58	<0.1	16.4	12.7	654	3.00	7.7	0.5	1.1	3.9	16	<0.1	0.6	0.2	72	0.21	0.017
1197241	Soil	1.2	28.9	4.8	50	0.2	13.6	21.7	757	3.93	4.9	0.3	0.9	2.0	20	<0.1	0.5	0.1	103	0.44	0.033
1197242	Soil	1.6	11.4	12.4	47	<0.1	6.9	6.8	380	3.73	6.7	1.3	0.7	14.0	9	<0.1	0.6	0.1	67	0.14	0.014
1197243	Soil	1.8	14.3	10.6	58	<0.1	17.7	7.8	237	3.19	9.2	0.4	2.7	3.3	11	0.1	0.7	0.2	78	0.12	0.016
1197244	Soil	8.6	27.3	10.2	63	<0.1	13.0	10.4	327	3.67	7.3	2.1	2.0	6.6	11	<0.1	1.0	0.2	46	0.14	0.010
1197245	Soil	4.8	59.2	16.7	98	<0.1	39.8	30.2	1178	6.96	7.4	3.5	3.2	23.0	15	<0.1	0.9	0.3	124	0.42	0.045
1197246	Soil	0.8	23.9	9.8	56	<0.1	29.8	15.3	534	3.43	8.3	1.0	2.1	13.4	24	<0.1	0.5	0.1	68	0.46	0.044
1197247	Soil	21.9	38.6	36.5	88	<0.1	20.7	15.6	558	4.18	9.5	2.2	1.5	25.7	14	0.2	0.7	0.5	57	0.20	0.029
1197248	Soil	0.7	15.0	9.8	87	<0.1	11.1	15.8	923	5.19	3.1	2.3	0.8	14.4	13	<0.1	0.7	<0.1	69	0.36	0.077
1197249	Soil	1.2	12.4	9.9	34	<0.1	13.5	6.2	165	2.63	9.9	0.5	2.2	2.7	13	0.1	0.5	0.2	60	0.15	0.020
1197250	Soil	0.8	17.1	8.2	49	<0.1	15.3	8.3	339	2.61	6.8	0.8	1.5	7.8	18	<0.1	0.5	0.1	60	0.30	0.024
1197259	Soil	3.2	21.1	36.7	79	0.4	15.3	12.7	844	2.69	91.3	1.0	15.1	2.8	11	0.3	1.4	2.2	43	0.10	0.060
1197260	Soil	1.7	15.6	27.2	53	0.3	12.9	5.9	164	2.81	24.0	0.6	4.6	3.7	11	0.2	0.7	1.1	60	0.12	0.020
1198053	Soil	0.9	32.1	9.7	53	<0.1	19.4	10.9	549	2.08	6.0	1.2	5.5	2.4	41	0.4	0.5	0.2	46	0.52	0.056
1198054	Soil	0.9	33.8	12.0	60	0.1	25.0	8.7	382	2.15	5.1	0.8	2.2	2.3	47	0.3	0.4	0.2	48	0.63	0.065
1198055	Soil	0.7	37.0	17.5	64	0.1	45.4	15.1	563	3.20	6.8	0.8	2.7	4.8	36	<0.1	0.4	0.2	76	0.52	0.079
1198056	Soil	0.9	17.8	9.3	78	0.1	9.8	4.7	892	1.68	6.0	0.5	1.3	0.7	26	0.2	0.3	0.2	43	0.64	0.037
1198057	Soil	0.7	46.1	45.7	89	<0.1	16.6	10.9	430	3.61	8.4	1.0	2.1	2.9	32	0.2	0.6	0.4	97	0.48	0.048
1198058	Soil	0.8	49.0	7.2	92	0.2	18.7	14.0	862	3.43	5.8	0.3	2.5	1.3	36	<0.1	0.8	0.1	91	0.44	0.057
1198059	Soil	0.8	28.1	18.2	114	<0.1	19.6	13.3	521	3.62	10.0	0.6	1.2	3.3	56	0.2	1.4	0.2	102	0.45	0.029
1198060	Soil	1.2	27.4	75.2	96	0.2	10.8	11.3	687	4.14	6.1	0.6	1.6	2.1	28	0.1	0.7	0.6	83	0.42	0.074
1198061	Soil	1.2	16.5	16.5	58	0.1	16.8	14.3	560	2.80	8.0	0.5	2.4	2.7	28	<0.1	0.6	0.2	74	0.37	0.037
1198062	Soil	0.9	18.4	41.1	48	0.2	17.8	9.1	352	2.76	8.8	0.4	1.6	2.4	22	0.1	0.6	0.3	71	0.25	0.024
1198063	Soil	0.8	18.1	22.9	58	0.1	17.9	8.1	233	2.94	7.9	0.5	2.2	2.7	20	0.1	0.8	0.2	70	0.28	0.052
1198064	Soil	1.2	15.8	12.7	57	0.3	12.8	10.5	1130	2.26	7.0	0.4	3.0	1.6	23	0.3	0.6	0.2	64	0.25	0.035
1198065	Soil	1.2	15.3	14.4	65	0.2	14.1	8.6	555	2.91	7.0	0.4	<0.5	2.6	16	0.1	1.0	0.2	66	0.18	0.024

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197236	Soil	88	16	0.94	218	0.014	3	2.60	0.010	0.05	<0.1	0.04	9.1	<0.1	<0.05	12	0.7	<0.2
1197237	Soil	55	5	0.18	103	0.002	6	1.07	0.004	0.07	0.1	0.25	30.9	0.1	<0.05	5	<0.5	<0.2
1197238	Soil	11	20	0.27	434	0.026	2	1.28	0.009	0.07	<0.1	0.15	5.1	0.3	<0.05	5	<0.5	<0.2
1197239	Soil	23	17	0.86	227	0.051	3	2.56	0.009	0.15	0.1	0.02	4.6	0.1	<0.05	9	<0.5	<0.2
1197240	Soil	11	30	0.58	176	0.051	<1	1.71	0.010	0.04	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
1197241	Soil	6	19	1.02	157	0.058	<1	1.77	0.019	0.09	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
1197242	Soil	10	13	0.35	131	0.014	2	1.54	0.006	0.06	0.1	0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
1197243	Soil	7	30	0.31	357	0.043	1	1.93	0.007	0.04	<0.1	0.04	2.8	0.1	<0.05	6	<0.5	<0.2
1197244	Soil	11	18	0.19	545	0.010	<1	1.22	0.004	0.06	0.1	0.14	3.3	0.1	<0.05	3	<0.5	<0.2
1197245	Soil	119	55	0.30	330	0.010	1	1.45	0.007	0.10	<0.1	0.77	19.0	0.1	<0.05	5	<0.5	<0.2
1197246	Soil	23	37	0.64	339	0.060	1	1.65	0.014	0.10	0.1	0.03	8.1	0.1	<0.05	5	<0.5	<0.2
1197247	Soil	15	31	0.34	255	0.041	<1	1.37	0.008	0.10	0.1	0.08	4.8	<0.1	<0.05	4	<0.5	<0.2
1197248	Soil	17	19	0.98	359	0.084	1	1.91	0.008	0.55	0.1	0.28	4.7	0.2	<0.05	6	<0.5	<0.2
1197249	Soil	9	27	0.33	237	0.034	<1	1.61	0.007	0.05	0.1	0.06	2.1	<0.1	<0.05	6	<0.5	<0.2
1197250	Soil	45	23	0.47	776	0.041	<1	1.52	0.008	0.17	<0.1	0.10	5.7	0.1	<0.05	4	<0.5	<0.2
1197259	Soil	11	32	0.24	180	0.018	<1	1.19	0.005	0.06	0.1	0.07	1.8	<0.1	<0.05	4	<0.5	<0.2
1197260	Soil	10	28	0.31	147	0.040	1	1.45	0.007	0.04	0.1	0.08	2.0	0.1	<0.05	6	<0.5	<0.2
1198053	Soil	11	24	0.44	328	0.061	<1	1.12	0.016	0.07	0.2	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
1198054	Soil	10	35	0.57	286	0.070	1	1.15	0.015	0.13	0.2	0.06	2.8	<0.1	<0.05	4	<0.5	<0.2
1198055	Soil	14	84	1.02	299	0.109	<1	1.72	0.013	0.13	0.2	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
1198056	Soil	6	16	0.30	171	0.050	1	0.92	0.010	0.06	0.1	0.07	2.1	<0.1	<0.05	4	<0.5	<0.2
1198057	Soil	11	31	0.88	261	0.114	<1	1.96	0.021	0.05	<0.1	0.04	6.7	<0.1	<0.05	7	<0.5	<0.2
1198058	Soil	7	30	0.64	282	0.053	<1	2.09	0.016	0.04	<0.1	0.03	5.4	<0.1	<0.05	7	<0.5	<0.2
1198059	Soil	9	35	0.75	190	0.112	<1	2.20	0.021	0.04	<0.1	0.03	4.9	<0.1	<0.05	7	<0.5	<0.2
1198060	Soil	13	19	0.74	257	0.084	<1	1.88	0.018	0.08	0.1	0.04	7.0	<0.1	<0.05	9	<0.5	<0.2
1198061	Soil	8	30	0.47	247	0.059	<1	1.91	0.010	0.04	0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
1198062	Soil	8	31	0.52	198	0.066	<1	1.84	0.013	0.04	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
1198063	Soil	9	29	0.52	163	0.057	<1	1.86	0.013	0.06	0.1	0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
1198064	Soil	8	22	0.33	253	0.050	<1	1.33	0.011	0.03	0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1198065	Soil	8	25	0.45	270	0.039	<1	1.64	0.008	0.07	0.1	0.04	2.7	<0.1	<0.05	6	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1198066	Soil	0.9	20.9	15.2	67	<0.1	12.7	10.0	425	3.50	22.0	0.5	<0.5	3.2	22	<0.1	1.0	0.1	67	0.34	0.024
1198067	Soil	1.4	14.6	7.7	133	<0.1	9.9	5.3	570	4.10	7.0	0.5	1.3	2.9	11	0.1	0.6	0.1	41	0.11	0.037
1198068	Soil	0.8	64.8	11.4	46	<0.1	24.7	14.1	438	4.01	9.4	0.7	2.1	2.8	35	<0.1	1.2	0.2	109	0.58	0.046
1198069	Soil	0.7	14.1	12.5	54	<0.1	16.8	10.3	474	2.96	6.3	0.4	0.6	2.8	24	0.1	0.7	0.1	70	0.46	0.033
1198070	Soil	0.9	28.1	13.8	69	0.2	29.3	16.1	504	3.24	5.2	0.3	1.7	1.8	27	<0.1	1.2	0.2	84	0.52	0.057
1198071	Soil	0.9	191.1	4.7	62	0.1	25.1	14.3	583	5.59	4.6	0.8	0.9	1.5	38	<0.1	0.8	<0.1	116	0.62	0.047
1198073	Soil	1.0	115.4	6.6	85	0.4	21.2	16.6	1316	5.85	8.2	0.5	2.2	1.3	55	0.3	0.8	<0.1	121	4.83	0.102
1198074	Soil	0.5	42.3	4.2	33	<0.1	21.9	13.1	447	3.47	5.0	0.5	1.1	1.6	23	<0.1	0.5	<0.1	80	0.65	0.094
1198075	Soil	0.5	30.2	57.4	39	0.1	23.1	11.8	256	2.65	6.1	0.5	1.4	3.6	25	<0.1	0.4	0.6	62	0.39	0.066
1198076	Soil	0.9	13.2	9.4	99	<0.1	14.8	12.5	799	3.93	6.2	0.6	2.9	4.2	23	0.1	0.6	0.2	58	0.33	0.049
1198077	Soil	0.8	127.9	6.7	75	0.5	19.3	17.3	1057	6.42	6.9	0.5	4.4	1.7	68	0.2	0.9	0.1	120	5.17	0.106
1198078	Soil	0.7	14.2	15.0	135	<0.1	11.8	9.3	882	4.20	5.0	0.4	1.5	2.4	14	0.1	0.4	0.1	45	0.30	0.070
1198079	Soil	0.9	37.3	13.0	121	<0.1	16.1	10.7	328	3.39	15.3	0.5	0.8	2.6	22	0.1	0.8	0.2	81	0.33	0.052
1198080	Soil	1.1	15.9	9.8	52	<0.1	16.6	8.1	211	3.15	10.1	0.3	<0.5	1.8	18	0.2	0.7	0.2	76	0.22	0.050
1198081	Soil	0.5	124.2	7.7	309	0.1	17.6	18.2	738	6.06	4.0	1.1	1.9	4.5	42	0.2	1.0	0.1	152	0.62	0.087
1198082	Soil	1.0	20.9	9.3	47	<0.1	20.1	10.3	425	2.76	8.4	0.8	0.9	3.9	24	<0.1	0.7	0.2	66	0.29	0.028
1198083	Soil	1.2	16.4	10.1	68	0.1	17.7	10.4	531	3.01	8.2	0.6	<0.5	3.6	21	0.2	0.5	0.3	74	0.32	0.028
1198084	Soil	1.1	21.6	9.8	153	<0.1	15.2	8.9	684	3.65	6.7	0.7	<0.5	4.7	16	0.3	0.7	0.3	57	0.19	0.032
1198085	Soil	0.5	21.6	4.3	96	<0.1	18.0	11.4	340	2.76	4.9	0.3	<0.5	1.4	38	0.1	0.7	0.1	66	0.42	0.067



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 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002507.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1198066	Soil	8	23	0.48	291	0.051	<1	1.98	0.010	0.04	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
1198067	Soil	6	17	0.46	174	0.093	<1	2.04	0.009	0.25	<0.1	0.02	8.3	0.1	<0.05	10	<0.5	<0.2
1198068	Soil	11	47	0.81	173	0.077	<1	2.01	0.028	0.06	<0.1	0.02	8.6	<0.1	<0.05	7	<0.5	<0.2
1198069	Soil	8	30	0.49	209	0.043	<1	1.70	0.015	0.07	0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
1198070	Soil	5	64	0.99	154	0.084	<1	1.92	0.033	0.10	<0.1	0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
1198071	Soil	7	46	1.36	186	0.121	<1	2.64	0.026	0.22	0.1	0.02	8.0	<0.1	<0.05	8	<0.5	<0.2
1198073	Soil	12	59	0.49	206	0.034	<1	1.18	0.007	0.11	<0.1	0.13	13.1	<0.1	<0.05	6	0.5	<0.2
1198074	Soil	7	49	1.07	155	0.074	<1	1.89	0.038	0.11	0.1	0.02	7.2	<0.1	<0.05	6	<0.5	<0.2
1198075	Soil	10	39	0.60	160	0.076	<1	1.60	0.022	0.16	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
1198076	Soil	8	24	0.69	275	0.043	2	2.06	0.011	0.12	<0.1	<0.01	4.2	<0.1	<0.05	8	0.9	<0.2
1198077	Soil	13	41	0.71	272	0.078	2	1.70	0.009	0.25	<0.1	0.12	12.7	0.1	<0.05	8	<0.5	<0.2
1198078	Soil	7	19	0.95	222	0.155	3	2.29	0.009	0.52	0.1	0.02	5.8	0.2	<0.05	9	<0.5	<0.2
1198079	Soil	8	32	0.64	180	0.067	<1	1.85	0.016	0.03	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
1198080	Soil	8	29	0.41	217	0.050	1	1.92	0.010	0.04	0.2	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
1198081	Soil	13	33	1.69	132	0.256	<1	2.54	0.024	0.39	0.1	0.17	6.9	0.3	<0.05	13	<0.5	<0.2
1198082	Soil	12	37	0.56	309	0.060	<1	1.89	0.011	0.03	0.1	0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
1198083	Soil	11	35	0.47	324	0.051	<1	2.02	0.011	0.03	0.1	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
1198084	Soil	8	25	0.54	227	0.043	1	2.01	0.009	0.09	0.1	0.03	3.2	<0.1	<0.05	8	<0.5	<0.2
1198085	Soil	4	32	0.56	160	0.097	<1	1.70	0.022	0.04	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2



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# QUALITY CONTROL REPORT

VAN11002507.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1192304	Soil	1.0	22.0	7.3	69	<0.1	15.8	18.4	608	4.31	6.2	0.7	0.9	5.2	32	<0.1	0.8	0.1	98	0.41	0.023
REP 1192304	QC	1.0	20.5	7.1	64	<0.1	15.8	18.3	569	4.29	6.0	0.7	<0.5	4.9	31	<0.1	0.8	0.1	95	0.41	0.022
1192387	Soil	0.5	34.9	9.9	58	0.2	28.4	12.4	1191	2.97	46.0	0.5	1.7	2.2	40	0.1	0.5	0.2	68	4.07	0.094
REP 1192387	QC	0.6	33.8	10.2	58	0.2	28.3	12.3	1175	3.00	46.4	0.5	2.0	2.2	40	<0.1	0.5	0.3	66	4.03	0.092
1194012	Soil	0.8	23.3	11.5	54	<0.1	22.4	10.3	547	2.83	9.6	0.4	1.9	3.8	38	<0.1	0.5	0.2	60	0.56	0.024
REP 1194012	QC	0.7	24.5	11.3	54	<0.1	23.1	10.4	563	2.83	9.3	0.4	5.8	3.9	37	0.1	0.5	0.3	61	0.57	0.024
1194501	Soil	0.6	34.8	11.1	62	0.2	26.7	10.9	397	2.40	10.2	0.6	5.7	3.7	208	0.4	0.9	0.2	56	5.95	0.087
REP 1194501	QC	0.7	34.5	11.5	61	0.2	25.7	10.6	390	2.43	10.3	0.6	3.0	3.6	209	0.3	0.8	0.1	54	6.06	0.083
1194517	Soil	2.1	237.9	7.4	91	0.4	21.8	14.9	552	3.07	6.9	0.7	3.7	2.9	68	0.2	0.5	0.2	63	2.68	0.092
REP 1194517	QC	2.4	240.3	7.8	91	0.5	22.5	15.6	570	3.16	6.8	0.7	1.3	3.1	68	0.3	0.5	0.2	64	2.73	0.095
1194536	Soil	0.9	19.0	9.7	62	0.1	18.4	10.7	682	2.44	5.8	0.5	2.9	4.1	34	<0.1	0.5	0.2	50	0.50	0.057
REP 1194536	QC	0.9	19.0	10.3	63	0.1	17.9	11.8	629	2.54	6.2	0.5	<0.5	4.0	36	0.1	0.4	0.2	52	0.52	0.054
1193623	Soil	0.6	36.6	11.0	64	0.1	26.7	11.2	484	2.84	10.4	0.6	3.7	3.6	45	0.1	0.9	0.2	59	0.75	0.057
REP 1193623	QC	0.7	36.5	11.0	66	0.1	27.1	11.8	481	2.88	10.4	0.6	4.2	3.7	46	0.1	0.9	0.2	60	0.76	0.056
1198162	Soil	1.2	11.0	9.2	40	<0.1	10.7	5.6	396	2.52	7.7	0.4	<0.5	1.5	11	<0.1	0.4	0.2	63	0.09	0.030
REP 1198162	QC	1.2	11.3	9.4	43	<0.1	10.8	6.0	419	2.67	8.2	0.5	0.8	1.5	12	0.1	0.5	0.2	66	0.11	0.032
1198165	Soil	1.9	17.6	8.7	72	<0.1	14.2	11.0	334	3.70	6.7	0.4	4.0	3.7	15	0.1	0.4	0.2	66	0.18	0.036
REP 1198165	QC	1.8	17.2	8.6	81	<0.1	14.1	10.9	323	3.66	6.4	0.4	8.9	2.7	15	0.1	0.5	0.1	68	0.17	0.035
1198388	Soil	1.0	20.7	7.3	70	<0.1	12.0	12.5	440	3.18	5.0	0.7	2.4	3.5	24	<0.1	0.3	0.1	67	0.46	0.066
REP 1198388	QC	1.0	20.9	7.2	71	<0.1	11.4	12.7	439	3.22	5.0	0.7	2.8	3.4	24	0.1	0.3	0.1	68	0.46	0.066
1196951	Soil	0.5	24.3	6.1	58	<0.1	9.1	13.7	675	4.30	2.9	1.4	1.2	11.2	16	<0.1	0.2	<0.1	85	0.46	0.049
REP 1196951	QC	0.5	24.6	6.4	59	<0.1	9.7	14.2	703	4.43	3.0	1.5	2.0	11.4	18	<0.1	0.2	<0.1	92	0.48	0.051
1197795	Soil	0.6	49.2	8.1	115	<0.1	11.4	17.6	910	6.05	4.9	0.7	0.7	5.7	19	<0.1	0.3	<0.1	134	0.42	0.071
REP 1197795	QC	0.5	50.1	8.8	121	<0.1	11.9	18.5	964	6.28	5.5	0.7	0.9	6.1	20	0.2	0.4	<0.1	141	0.43	0.076
1197238	Soil	1.1	15.3	11.2	62	<0.1	11.2	9.9	551	3.14	8.0	0.8	1.3	2.1	18	0.2	0.9	0.1	73	0.28	0.042
REP 1197238	QC	1.0	16.1	11.8	61	<0.1	10.7	9.7	561	3.14	7.8	0.8	0.9	2.1	18	0.2	1.0	0.1	72	0.29	0.042
1197247	Soil	21.9	38.6	36.5	88	<0.1	20.7	15.6	558	4.18	9.5	2.2	1.5	25.7	14	0.2	0.7	0.5	57	0.20	0.029
REP 1197247	QC	21.7	38.3	35.6	89	<0.1	20.6	15.4	544	4.12	9.6	2.3	1.6	26.9	13	0.2	0.7	0.6	58	0.19	0.029



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QUALITY CONTROL REPORT

VAN11002507.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1192304	Soil	7	37	1.57	186	0.076	2	2.90	0.007	0.27	<0.1	<0.01	5.1	0.2	<0.05	8	<0.5	<0.2
REP 1192304	QC	7	34	1.48	184	0.075	3	2.82	0.006	0.25	<0.1	<0.01	5.0	0.1	<0.05	7	<0.5	<0.2
1192387	Soil	11	34	2.71	287	0.057	1	1.88	0.018	0.05	0.1	0.06	4.6	<0.1	<0.05	6	<0.5	<0.2
REP 1192387	QC	11	33	2.70	293	0.055	<1	1.90	0.018	0.05	0.1	0.05	4.5	<0.1	<0.05	5	0.6	<0.2
1194012	Soil	14	33	0.50	494	0.066	2	1.83	0.015	0.09	0.2	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2
REP 1194012	QC	14	33	0.50	483	0.067	2	1.83	0.014	0.10	0.2	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
1194501	Soil	12	23	1.18	421	0.098	2	1.24	0.034	0.13	0.1	0.04	3.0	<0.1	0.07	4	0.5	<0.2
REP 1194501	QC	12	23	1.17	433	0.097	3	1.23	0.034	0.12	0.2	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
1194517	Soil	14	38	1.14	267	0.070	3	1.88	0.011	0.19	0.1	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
REP 1194517	QC	14	39	1.19	261	0.074	2	1.95	0.012	0.19	0.2	0.04	3.0	<0.1	<0.05	7	<0.5	0.2
1194536	Soil	11	30	0.48	306	0.078	1	1.34	0.013	0.23	0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
REP 1194536	QC	11	31	0.50	310	0.081	2	1.37	0.016	0.24	0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
1193623	Soil	15	30	0.70	329	0.068	<1	1.59	0.028	0.07	0.2	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
REP 1193623	QC	15	30	0.69	334	0.069	<1	1.57	0.028	0.07	0.2	0.08	4.6	<0.1	<0.05	5	<0.5	<0.2
1198162	Soil	10	21	0.32	153	0.033	<1	1.49	0.008	0.05	0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
REP 1198162	QC	11	23	0.34	161	0.039	<1	1.59	0.008	0.06	0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
1198165	Soil	8	25	0.68	183	0.117	3	2.23	0.011	0.21	0.2	0.01	2.5	<0.1	0.14	7	<0.5	<0.2
REP 1198165	QC	8	25	0.67	182	0.118	2	2.22	0.012	0.22	0.1	0.01	2.5	<0.1	0.08	6	<0.5	<0.2
1198388	Soil	10	20	0.82	316	0.138	<1	1.98	0.014	0.46	0.2	0.03	2.7	0.1	<0.05	6	<0.5	<0.2
REP 1198388	QC	11	20	0.83	315	0.144	<1	2.03	0.014	0.46	0.2	0.03	2.5	0.2	<0.05	6	<0.5	<0.2
1196951	Soil	23	12	0.89	310	0.109	2	1.96	0.009	0.57	<0.1	0.02	10.0	0.2	<0.05	6	<0.5	<0.2
REP 1196951	QC	24	12	0.92	325	0.116	2	2.10	0.010	0.61	<0.1	0.03	10.4	0.2	<0.05	7	0.6	<0.2
1197795	Soil	5	22	1.57	469	0.122	1	2.85	0.010	0.74	<0.1	0.01	9.7	0.2	<0.05	11	<0.5	<0.2
REP 1197795	QC	6	22	1.61	487	0.133	2	2.96	0.011	0.78	0.1	<0.01	10.1	0.2	<0.05	12	<0.5	<0.2
1197238	Soil	11	20	0.27	434	0.026	2	1.28	0.009	0.07	<0.1	0.15	5.1	0.3	<0.05	5	<0.5	<0.2
REP 1197238	QC	10	20	0.26	431	0.025	<1	1.26	0.009	0.07	<0.1	0.14	5.6	0.3	<0.05	5	0.7	<0.2
1197247	Soil	15	31	0.34	255	0.041	<1	1.37	0.008	0.10	0.1	0.08	4.8	<0.1	<0.05	4	<0.5	<0.2
REP 1197247	QC	15	31	0.34	252	0.038	<1	1.37	0.007	0.10	0.1	0.06	4.7	0.1	<0.05	4	0.7	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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 Vancouver BC V6C 1H2 Canada

Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

VAN11002507.2

		1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1198057	Soil	0.7	46.1	45.7	89	<0.1	16.6	10.9	430	3.61	8.4	1.0	2.1	2.9	32	0.2	0.6	0.4	97	0.48	0.048
REP 1198057	QC	0.7	47.5	45.3	90	<0.1	16.9	10.9	446	3.69	8.5	1.0	3.8	3.0	32	0.2	0.7	0.4	100	0.51	0.048
1198081	Soil	0.5	124.2	7.7	309	0.1	17.6	18.2	738	6.06	4.0	1.1	1.9	4.5	42	0.2	1.0	0.1	152	0.62	0.087
REP 1198081	QC	0.5	122.0	7.6	311	<0.1	18.3	17.8	726	5.96	3.9	1.1	<0.5	4.5	41	0.2	1.0	<0.1	151	0.59	0.085
Reference Materials																					
STD DS8	Standard	13.0	111.0	130.6	319	1.9	38.5	7.4	614	2.46	26.3	2.9	120.3	6.9	65	2.4	6.0	6.8	42	0.69	0.077
STD DS8	Standard	13.1	113.0	130.2	325	1.8	38.5	7.6	617	2.47	26.5	2.9	109.4	7.1	66	2.3	6.1	6.8	40	0.66	0.077
STD DS8	Standard	12.6	114.1	125.9	315	1.7	41.9	8.1	555	2.50	25.2	2.9	110.8	6.7	62	2.1	5.4	6.0	43	0.71	0.081
STD DS8	Standard	15.1	120.4	138.3	328	1.9	42.7	8.2	577	2.64	28.5	3.1	113.4	7.3	69	2.4	5.9	6.5	46	0.73	0.086
STD DS8	Standard	14.4	117.7	126.2	328	1.8	40.6	8.0	648	2.60	27.6	2.8	115.3	7.6	72	2.5	6.2	7.0	46	0.72	0.082
STD DS8	Standard	15.1	115.3	129.4	330	1.7	39.4	8.3	638	2.58	28.2	2.9	114.2	7.4	73	2.6	5.9	7.0	47	0.78	0.082
STD DS8	Standard	14.1	120.3	126.7	350	1.9	41.2	8.0	671	2.62	27.8	2.8	125.4	7.0	72	2.4	6.2	6.7	45	0.76	0.084
STD DS8	Standard	13.7	116.2	127.8	334	1.9	40.3	7.8	644	2.63	28.6	2.8	118.0	6.7	69	2.5	6.0	6.7	43	0.74	0.081
STD DS8	Standard	13.7	111.4	134.8	330	1.8	37.9	7.4	620	2.52	26.5	2.9	147.6	7.4	74	2.4	6.2	7.3	40	0.71	0.084
STD DS8	Standard	14.1	118.3	135.7	332	1.9	39.1	7.6	649	2.53	26.7	2.9	139.6	7.3	75	2.2	6.2	7.2	42	0.72	0.082
STD DS8	Standard	12.7	114.2	123.9	316	1.7	38.0	7.9	605	2.43	25.5	2.8	108.8	6.6	62	2.3	5.6	6.5	43	0.66	0.078
STD DS8	Standard	13.2	112.8	122.3	322	1.8	39.6	7.7	603	2.42	26.1	2.6	119.0	6.5	61	2.2	5.7	6.7	44	0.68	0.081
STD DS8	Standard	13.5	111.3	117.5	321	1.8	38.2	7.7	611	2.46	26.7	2.7	111.1	6.5	66	2.2	5.4	6.4	43	0.69	0.081
STD DS8	Standard	13.7	111.6	119.7	319	1.7	39.2	7.4	629	2.44	26.8	2.9	117.7	6.9	66	2.2	5.8	6.6	43	0.70	0.083
STD DS8	Standard	13.1	116.2	130.3	338	1.8	39.7	7.9	639	2.56	27.1	2.8	124.2	6.8	69	2.2	6.1	7.0	44	0.69	0.081
STD DS8	Standard	14.4	120.1	133.0	347	1.8	41.2	7.9	669	2.64	28.9	3.0	116.9	7.1	72	2.3	6.2	7.3	45	0.75	0.088
STD DS8	Standard	13.7	116.8	127.6	337	1.9	40.2	8.0	656	2.63	28.5	2.9	150.9	7.1	70	2.4	5.7	6.7	44	0.75	0.087
STD DS8	Standard	13.3	115.9	123.2	336	1.8	38.8	7.6	660	2.54	26.9	2.8	127.2	6.9	68	2.4	5.8	6.7	44	0.75	0.084
STD DS8	Standard	13.7	112.3	118.2	321	1.7	37.9	7.6	622	2.41	26.9	2.9	105.3	6.7	66	2.5	5.9	6.6	41	0.66	0.079
STD DS8	Standard	13.4	111.6	119.6	319	1.8	37.2	7.6	607	2.40	26.3	2.7	111.3	6.6	64	2.4	5.6	6.6	42	0.67	0.077
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

VAN11002507.2

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
1198057	Soil	11	31	0.88	261	0.114	<1	1.96	0.021	0.05	<0.1	0.04	6.7	<0.1	<0.05	7	<0.5	<0.2
REP 1198057	QC	12	32	0.90	270	0.119	<1	2.04	0.022	0.06	<0.1	0.06	6.9	<0.1	<0.05	8	<0.5	<0.2
1198081	Soil	13	33	1.69	132	0.256	<1	2.54	0.024	0.39	0.1	0.17	6.9	0.3	<0.05	13	<0.5	<0.2
REP 1198081	QC	13	33	1.62	133	0.249	<1	2.42	0.021	0.37	0.1	0.21	6.9	0.3	<0.05	12	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	115	0.65	274	0.113	2	0.89	0.080	0.42	3.3	0.21	2.2	5.7	0.15	5	5.0	5.2
STD DS8	Standard	15	115	0.64	280	0.112	3	0.88	0.083	0.41	3.3	0.21	2.0	5.7	0.14	5	5.7	5.5
STD DS8	Standard	13	123	0.63	283	0.116	1	0.92	0.071	0.42	3.1	0.23	2.0	5.7	<0.05	5	5.6	6.0
STD DS8	Standard	15	130	0.66	301	0.125	2	0.99	0.074	0.43	3.3	0.18	2.5	5.8	0.12	5	7.3	5.6
STD DS8	Standard	16	126	0.62	297	0.130	3	0.96	0.097	0.45	3.1	0.22	2.3	5.5	0.15	5	4.4	5.3
STD DS8	Standard	16	125	0.63	300	0.133	2	0.98	0.098	0.44	3.1	0.20	2.1	5.6	0.18	5	5.6	4.9
STD DS8	Standard	15	128	0.66	299	0.124	3	0.96	0.094	0.45	3.3	0.24	2.2	5.8	0.12	5	5.6	5.3
STD DS8	Standard	14	121	0.63	289	0.120	3	0.94	0.087	0.43	3.2	0.23	2.0	5.8	0.12	5	5.8	5.4
STD DS8	Standard	15	113	0.60	293	0.114	3	1.00	0.115	0.48	3.4	0.24	3.0	6.5	0.24	5	5.6	5.0
STD DS8	Standard	15	121	0.59	291	0.120	3	0.94	0.131	0.48	3.4	0.21	3.2	6.2	0.18	5	5.0	4.9
STD DS8	Standard	13	121	0.60	269	0.114	2	0.87	0.081	0.40	2.9	0.22	1.9	5.5	0.16	5	5.3	5.0
STD DS8	Standard	13	122	0.62	273	0.115	2	0.89	0.082	0.41	3.0	0.19	1.9	5.4	0.16	4	4.9	5.3
STD DS8	Standard	15	118	0.62	276	0.117	2	0.94	0.091	0.41	3.0	0.22	1.4	5.1	0.07	5	5.4	5.2
STD DS8	Standard	15	122	0.62	279	0.118	2	0.91	0.088	0.42	3.0	0.21	1.8	5.3	0.14	5	5.2	4.8
STD DS8	Standard	14	123	0.61	295	0.118	3	0.94	0.080	0.42	3.2	0.19	1.8	5.7	0.12	5	5.5	5.4
STD DS8	Standard	15	125	0.63	297	0.128	2	0.97	0.082	0.45	3.1	0.23	2.0	5.8	0.15	5	5.1	5.6
STD DS8	Standard	16	121	0.67	292	0.122	4	1.01	0.103	0.46	3.0	0.21	2.0	5.6	0.13	5	6.1	4.9
STD DS8	Standard	16	123	0.66	285	0.120	3	0.99	0.096	0.44	3.1	0.22	2.0	5.6	0.13	5	5.7	5.3
STD DS8	Standard	15	116	0.61	285	0.124	3	0.90	0.085	0.41	3.0	0.20	2.1	5.5	0.16	5	5.0	4.7
STD DS8	Standard	15	114	0.61	282	0.122	2	0.90	0.086	0.40	3.0	0.19	2.1	5.4	0.17	5	5.0	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2





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**Project:** HEN

**Report Date:** July 19, 2011

**Page:** 3 of 3 **Part** 1

QUALITY CONTROL REPORT

VAN11002507.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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**Project:** HEN

**Report Date:** July 19, 2011

**Page:** 3 of 3 **Part** 2

QUALITY CONTROL REPORT

VAN11002507.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 13, 2011
Report Date: July 19, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

VAN11002508.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID:
P.O. Number
Number of Samples: 278

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp.
Suite 680-789 West Pender St
Vancouver BC V6C 1H2
Canada

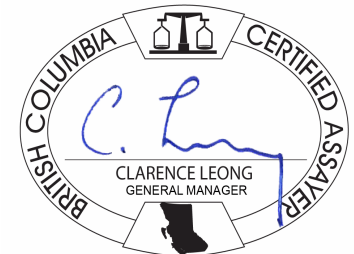
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN11002508.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1197583	Soil		0.6	39.7	30.8	61	<0.1	11.9	14.4	503	4.04	4.4	0.5	1.3	2.4	86	<0.1	0.2	0.4	100	0.60	0.055
1197584	Soil		0.7	64.2	4.5	116	<0.1	31.3	24.3	826	7.40	2.4	1.2	1.5	3.8	51	<0.1	<0.1	<0.1	198	0.69	0.122
1197585	Soil		0.8	30.5	2.7	58	<0.1	19.7	20.0	739	5.32	1.8	0.5	1.5	1.1	40	<0.1	0.2	<0.1	144	0.93	0.080
1197586	Soil		0.5	30.9	2.9	69	<0.1	24.2	22.7	827	4.94	3.3	1.0	0.8	5.4	50	<0.1	0.1	<0.1	147	0.86	0.152
1197587	Soil		0.7	85.6	113.4	108	0.1	23.0	20.7	846	4.90	3.4	0.8	0.7	5.4	25	<0.1	0.1	1.7	156	0.57	0.106
1197588	Soil		0.3	69.9	4.1	70	<0.1	26.1	19.7	720	4.22	2.6	1.1	1.1	8.5	19	<0.1	0.2	<0.1	117	0.57	0.106
1197589	Soil		0.6	34.3	5.4	68	<0.1	37.6	19.0	643	3.86	5.3	1.0	0.7	3.6	66	<0.1	0.3	<0.1	95	0.72	0.066
1197590	Soil		0.2	49.3	7.1	58	<0.1	26.4	18.2	573	3.60	3.8	1.1	<0.5	5.7	26	<0.1	0.2	<0.1	105	0.58	0.093
1197591	Soil		0.4	48.2	6.3	90	<0.1	30.4	21.2	673	4.39	4.7	1.4	0.6	5.1	69	<0.1	0.2	<0.1	114	0.94	0.094
1197592	Soil		0.2	64.1	4.5	68	<0.1	23.2	21.0	708	4.55	2.3	1.0	<0.5	4.7	205	<0.1	<0.1	<0.1	128	0.77	0.111
1197593	Soil		1.5	22.8	6.6	46	<0.1	15.8	9.4	309	2.84	6.0	0.5	1.3	2.3	49	<0.1	0.3	0.1	87	0.38	0.040
1197594	Soil		0.7	47.8	35.7	77	<0.1	41.0	20.3	500	3.77	4.1	0.6	0.7	3.2	92	<0.1	0.3	0.1	97	1.00	0.063
1197595	Soil		0.6	33.8	9.3	56	<0.1	28.4	10.9	497	2.65	9.5	1.0	2.5	4.1	46	0.1	0.6	0.1	56	0.62	0.062
1197596	Soil		0.7	39.7	8.9	54	0.1	29.2	11.1	449	2.75	10.8	0.5	8.5	3.6	64	<0.1	0.6	0.1	59	1.66	0.055
1197597	Soil		0.7	20.6	6.0	69	<0.1	19.9	12.6	740	4.16	7.2	0.8	2.4	6.2	25	<0.1	0.4	<0.1	65	0.46	0.061
1197598	Soil		0.8	34.0	8.8	57	0.2	33.6	11.7	481	2.86	12.8	0.5	5.1	3.7	45	<0.1	0.8	0.1	53	0.90	0.069
1197599	Soil		1.1	67.4	25.1	92	<0.1	31.4	25.8	654	5.75	7.0	1.0	1.0	4.1	28	0.1	0.5	0.2	166	0.74	0.098
1197600	Soil		4.1	103.2	142.6	177	0.2	67.1	28.4	1521	6.78	24.2	1.0	1.9	5.9	32	0.5	0.6	1.3	160	0.38	0.063
1197636	Soil		0.5	23.3	17.6	94	<0.1	17.3	7.5	445	3.66	9.0	1.0	2.1	4.9	23	<0.1	0.5	0.2	53	0.19	0.021
1197637	Soil		0.5	26.1	13.6	111	0.2	13.0	11.8	544	3.68	6.1	0.7	0.9	7.0	340	0.1	0.3	0.1	70	0.49	0.051
1197638	Soil		0.6	18.2	9.9	105	<0.1	15.2	10.3	681	4.15	5.6	0.6	<0.5	5.4	62	0.2	0.3	0.1	60	0.28	0.042
1197639	Soil		0.9	45.0	16.9	98	0.1	43.9	19.3	755	4.09	20.7	1.2	<0.5	10.9	89	0.1	0.2	0.2	55	0.46	0.064
1197640	Soil		0.6	36.1	15.5	81	<0.1	34.8	12.7	445	4.92	17.9	1.3	<0.5	15.7	81	<0.1	0.4	0.2	72	0.24	0.035
1197641	Soil		0.4	34.8	10.0	99	<0.1	31.6	14.4	449	4.52	3.6	1.0	2.7	14.8	255	<0.1	0.2	0.2	79	0.24	0.022
1197642	Soil		0.7	16.6	63.4	75	0.3	20.2	12.0	442	3.24	10.1	0.7	0.9	8.5	26	<0.1	0.4	0.7	55	0.24	0.034
1197643	Soil		0.8	47.6	90.9	89	0.2	43.3	15.7	526	4.49	8.3	1.5	0.5	18.8	178	0.1	0.3	1.1	77	0.41	0.052
1197644	Soil		0.6	15.4	41.1	43	0.3	23.5	4.0	541	1.04	7.9	0.7	1.5	0.8	189	0.4	0.2	0.2	26	17.98	0.055
1197645	Soil		0.7	16.8	5.1	73	<0.1	9.9	13.0	638	4.71	2.8	1.2	<0.5	3.9	518	<0.1	0.1	<0.1	171	0.80	0.068
1197646	Soil		1.0	16.4	5.5	70	<0.1	11.9	12.6	631	4.67	3.3	1.2	1.7	4.2	422	0.1	<0.1	<0.1	174	0.75	0.061
1197647	Soil		4.2	183.2	25.5	215	0.2	46.7	35.8	889	4.84	11.3	9.2	<0.5	4.4	148	0.5	0.3	0.4	302	0.71	0.263

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 Report Date: July 19, 2011

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K ppm	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1197583	Soil	8	28	1.08	346	0.098	<1	2.22	0.052	0.31	<0.1	<0.01	9.2	<0.1	<0.05	7	<0.5	<0.2
1197584	Soil	15	91	3.63	1548	0.279	<1	4.12	0.023	1.25	<0.1	0.02	14.1	0.5	<0.05	16	0.6	<0.2
1197585	Soil	12	39	2.19	346	0.048	1	2.96	0.025	0.13	<0.1	0.01	12.7	<0.1	<0.05	11	<0.5	<0.2
1197586	Soil	12	48	2.22	307	0.292	<1	3.06	0.020	0.84	<0.1	<0.01	6.0	0.1	<0.05	11	<0.5	<0.2
1197587	Soil	8	57	2.21	252	0.283	<1	2.80	0.020	1.46	<0.1	<0.01	8.8	0.4	<0.05	13	<0.5	<0.2
1197588	Soil	18	57	1.44	279	0.180	<1	1.98	0.029	0.81	<0.1	<0.01	8.8	0.2	<0.05	9	<0.5	<0.2
1197589	Soil	11	96	1.58	219	0.195	1	2.70	0.024	0.44	<0.1	<0.01	6.0	0.1	<0.05	8	<0.5	<0.2
1197590	Soil	19	49	1.59	201	0.185	<1	2.33	0.026	0.96	<0.1	<0.01	6.3	0.2	<0.05	8	<0.5	<0.2
1197591	Soil	18	57	1.90	165	0.133	1	3.30	0.023	0.50	<0.1	<0.01	8.8	<0.1	<0.05	12	<0.5	<0.2
1197592	Soil	17	46	1.91	389	0.218	<1	2.68	0.025	1.08	<0.1	<0.01	7.9	0.2	<0.05	9	<0.5	<0.2
1197593	Soil	8	30	0.91	205	0.154	1	1.59	0.014	0.30	0.1	<0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
1197594	Soil	8	141	1.62	259	0.113	<1	2.68	0.023	0.22	<0.1	<0.01	7.6	<0.1	<0.05	10	0.5	<0.2
1197595	Soil	14	28	0.57	304	0.095	2	1.62	0.035	0.06	0.2	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
1197596	Soil	14	29	0.75	271	0.088	2	1.42	0.034	0.07	0.3	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
1197597	Soil	14	30	0.90	480	0.153	1	2.02	0.020	0.67	0.1	0.01	9.2	0.1	<0.05	8	0.6	<0.2
1197598	Soil	16	29	0.60	411	0.077	2	1.24	0.031	0.10	0.2	0.03	3.9	<0.1	<0.05	4	0.9	<0.2
1197599	Soil	15	47	1.04	733	0.122	3	2.26	0.044	0.50	<0.1	<0.01	12.8	0.1	<0.05	10	0.8	<0.2
1197600	Soil	23	39	0.29	884	0.012	3	1.13	0.013	0.13	<0.1	0.25	17.1	<0.1	<0.05	6	1.2	<0.2
1197636	Soil	16	29	0.53	179	0.157	1	1.92	0.017	0.42	<0.1	<0.01	7.1	0.2	<0.05	7	0.6	<0.2
1197637	Soil	17	23	0.67	453	0.104	<1	2.05	0.026	0.31	<0.1	<0.01	5.3	<0.1	<0.05	8	<0.5	<0.2
1197638	Soil	10	25	0.80	396	0.150	<1	2.09	0.013	0.72	0.1	<0.01	5.5	0.2	<0.05	8	0.8	<0.2
1197639	Soil	24	51	0.94	187	0.115	1	2.05	0.013	0.59	0.1	<0.01	6.3	0.4	<0.05	7	0.6	<0.2
1197640	Soil	22	53	1.15	308	0.254	<1	3.04	0.016	1.31	<0.1	<0.01	5.5	0.6	<0.05	10	0.6	<0.2
1197641	Soil	35	62	1.35	468	0.268	<1	2.52	0.013	1.26	<0.1	<0.01	8.7	0.6	<0.05	11	0.7	<0.2
1197642	Soil	12	35	0.67	336	0.123	2	1.95	0.008	0.50	0.1	<0.01	3.5	0.2	<0.05	7	0.8	<0.2
1197643	Soil	54	72	1.16	385	0.216	1	2.79	0.014	0.99	0.2	0.01	8.2	0.5	<0.05	11	0.9	<0.2
1197644	Soil	28	16	0.23	128	0.012	2	0.75	0.007	0.05	<0.1	0.05	2.5	<0.1	<0.05	2	0.6	<0.2
1197645	Soil	16	11	2.05	1869	0.255	2	5.30	0.076	1.50	<0.1	<0.01	11.9	0.4	<0.05	12	0.5	<0.2
1197646	Soil	16	13	1.94	1761	0.257	<1	5.28	0.074	1.47	<0.1	<0.01	11.6	0.4	<0.05	12	0.6	<0.2
1197647	Soil	22	34	1.58	830	0.107	1	3.19	0.009	0.83	<0.1	<0.01	10.1	0.5	<0.05	10	3.1	0.3

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002508.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197648	Soil	4.0	169.9	24.9	196	0.3	43.1	34.0	794	4.67	10.8	8.6	1.5	4.4	170	0.4	0.3	0.4	286	0.72	0.266
1197649	Soil	1.4	22.7	9.7	243	0.2	21.6	12.8	663	4.31	3.4	0.8	<0.5	2.9	28	3.2	0.7	0.1	56	0.55	0.263
1197650	Soil	1.3	46.8	18.9	90	<0.1	35.1	17.2	637	4.38	8.8	0.9	1.7	3.5	469	<0.1	0.2	0.2	120	1.82	0.091
1196987	Soil	1.8	46.5	16.3	85	0.1	31.8	13.8	348	3.92	10.4	1.3	1.2	3.4	39	0.2	0.6	0.2	96	0.91	0.044
1192500	Soil	0.4	28.2	185.4	132	<0.1	10.9	15.1	446	4.71	3.4	0.6	2.0	2.4	51	0.1	0.3	1.1	130	0.75	0.071
1192183	Soil	0.3	33.9	15.8	78	<0.1	14.1	11.1	352	4.08	5.4	0.6	0.9	1.9	59	<0.1	0.4	0.2	76	0.81	0.158
1192184	Soil	0.1	33.9	2.6	32	<0.1	19.7	12.4	209	1.95	1.1	0.2	<0.5	0.5	41	<0.1	<0.1	<0.1	60	0.40	0.055
1192185	Soil	0.5	32.2	5.8	113	<0.1	26.0	13.2	616	4.35	4.8	0.8	0.5	3.6	35	<0.1	0.4	<0.1	80	0.60	0.061
1192186	Soil	0.6	30.6	10.3	51	<0.1	17.0	10.8	251	2.93	5.4	0.7	1.2	4.0	46	<0.1	0.4	0.1	71	0.45	0.053
1192188	Soil	0.4	63.2	14.8	35	<0.1	13.7	13.8	295	3.30	10.9	0.4	2.2	2.2	55	<0.1	0.4	0.5	81	0.69	0.117
1192189	Soil	0.4	68.6	8.0	97	<0.1	9.4	21.3	488	5.48	11.1	0.5	<0.5	1.6	51	0.1	0.7	<0.1	170	0.93	0.147
1192190	Soil	0.3	47.9	20.5	88	<0.1	13.1	12.1	265	2.89	3.5	0.4	2.2	1.6	53	<0.1	0.4	0.3	94	0.46	0.039
1192191	Soil	0.8	30.5	4.4	85	0.1	10.4	15.1	561	4.17	7.5	0.4	1.8	1.8	29	<0.1	0.3	<0.1	109	0.62	0.141
1192192	Soil	1.9	26.1	13.3	88	0.2	30.9	12.5	384	3.18	6.9	0.8	1.4	7.0	24	<0.1	0.4	0.2	57	0.17	0.033
1192193	Soil	0.9	76.7	8.4	103	<0.1	46.0	38.3	548	6.58	4.1	0.7	<0.5	1.8	20	<0.1	0.2	0.1	211	0.64	0.071
1196342	Soil	0.5	33.2	4.3	49	0.2	28.5	19.8	379	2.89	5.3	1.0	3.6	2.5	169	<0.1	0.5	<0.1	68	4.24	0.073
1197951	Soil	0.6	37.2	116.0	56	<0.1	25.1	16.1	359	3.44	6.9	0.8	<0.5	3.7	50	<0.1	0.4	1.3	95	0.50	0.042
1197952	Soil	0.6	63.8	51.1	64	0.1	30.0	18.1	490	3.72	7.3	0.7	0.6	3.6	64	0.1	0.4	0.4	105	0.72	0.047
1197953	Soil	0.2	52.5	60.6	67	0.3	22.6	18.1	703	3.62	2.8	0.6	1.7	2.0	85	0.2	0.2	0.4	117	5.83	0.049
1197954	Soil	0.7	33.1	25.6	74	0.2	26.9	16.6	654	3.49	8.4	0.7	0.5	4.6	46	<0.1	0.5	0.3	91	0.50	0.052
1197955	Soil	1.2	32.6	11.4	67	<0.1	23.6	12.4	522	3.12	8.6	0.7	2.1	5.1	37	<0.1	0.6	0.2	71	0.34	0.026
1197956	Soil	1.3	25.9	31.5	80	<0.1	12.7	16.7	616	4.36	5.8	1.1	<0.5	5.8	78	0.1	0.4	0.3	115	0.68	0.055
1197957	Soil	2.0	29.5	11.7	51	<0.1	7.0	7.5	449	1.92	2.2	1.0	0.9	3.6	83	<0.1	0.2	<0.1	34	4.88	0.038
1197958	Soil	0.9	15.8	9.7	58	<0.1	21.8	11.8	459	2.77	10.1	0.5	2.3	4.0	33	0.1	0.7	0.2	62	0.61	0.027
1197959	Soil	0.7	53.6	11.4	89	<0.1	21.2	15.6	518	3.75	6.5	0.7	1.8	4.2	95	<0.1	0.5	0.1	103	0.54	0.059
1197960	Soil	1.2	32.0	17.0	66	<0.1	22.4	13.4	427	3.43	6.8	0.7	3.2	3.7	39	0.1	0.4	0.2	92	0.37	0.031
1197961	Soil	1.4	53.4	26.1	79	<0.1	29.7	19.7	558	4.22	7.7	1.1	0.8	5.0	66	<0.1	0.5	0.3	124	0.44	0.027
1197962	Soil	0.9	22.2	8.6	63	<0.1	26.6	15.0	507	2.96	7.0	0.6	<0.5	4.0	101	<0.1	0.6	0.1	83	0.46	0.027
1197963	Soil	1.5	46.5	7.2	56	<0.1	30.2	16.4	381	3.21	6.2	0.7	0.7	3.4	93	<0.1	0.4	0.1	85	0.70	0.031
1197964	Soil	0.9	33.8	7.4	63	<0.1	25.2	16.6	684	3.19	5.9	0.5	1.5	3.0	108	0.1	0.5	0.2	87	0.59	0.020

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1197648	Soil	20	32	1.53	829	0.108	<1	3.23	0.010	0.82	<0.1	<0.01	9.7	0.5	<0.05	9	3.6	<0.2
1197649	Soil	7	30	1.02	687	0.206	1	2.52	0.012	0.54	0.2	<0.01	5.1	0.3	<0.05	9	<0.5	<0.2
1197650	Soil	10	126	1.86	689	0.199	<1	4.13	0.010	0.42	0.1	<0.01	12.5	<0.1	<0.05	14	0.9	<0.2
1196987	Soil	13	42	0.72	482	0.086	3	1.81	0.014	0.32	0.1	0.03	7.6	0.2	<0.05	7	0.6	<0.2
1192500	Soil	16	17	0.88	211	0.138	1	2.42	0.030	0.15	<0.1	0.01	7.7	<0.1	<0.05	10	<0.5	<0.2
1192183	Soil	10	21	0.85	199	0.148	<1	2.17	0.022	0.09	0.1	<0.01	5.4	<0.1	<0.05	8	0.5	<0.2
1192184	Soil	5	35	0.80	156	0.130	<1	1.52	0.017	0.14	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
1192185	Soil	24	76	1.04	237	0.128	<1	2.39	0.019	0.23	<0.1	0.02	9.3	<0.1	<0.05	10	<0.5	<0.2
1192186	Soil	15	26	0.56	197	0.087	1	1.64	0.024	0.04	0.1	0.02	4.2	<0.1	<0.05	6	0.8	<0.2
1192188	Soil	5	25	0.67	96	0.121	1	1.82	0.034	0.05	<0.1	<0.01	4.0	<0.1	<0.05	6	0.7	<0.2
1192189	Soil	8	11	0.96	165	0.236	1	2.58	0.071	0.14	0.1	0.05	8.2	<0.1	<0.05	11	0.7	<0.2
1192190	Soil	8	22	0.67	130	0.110	<1	1.69	0.041	0.03	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
1192191	Soil	7	14	0.99	237	0.109	1	2.09	0.031	0.25	0.1	<0.01	6.1	<0.1	<0.05	9	<0.5	<0.2
1192192	Soil	9	38	0.69	197	0.054	<1	2.00	0.007	0.07	<0.1	0.02	2.4	<0.1	<0.05	6	0.6	<0.2
1192193	Soil	10	79	2.01	967	0.351	<1	3.63	0.010	1.20	<0.1	<0.01	10.1	0.5	<0.05	12	0.9	<0.2
1196342	Soil	7	58	1.41	234	0.116	2	1.81	0.029	0.11	<0.1	0.04	4.8	<0.1	<0.05	7	0.5	<0.2
1197951	Soil	15	47	0.98	216	0.128	2	2.29	0.017	0.05	0.1	<0.01	5.2	<0.1	<0.05	7	<0.5	<0.2
1197952	Soil	8	53	1.26	277	0.170	<1	2.29	0.019	0.05	0.1	0.01	6.4	<0.1	<0.05	8	<0.5	<0.2
1197953	Soil	9	47	1.61	158	0.076	1	1.84	0.011	0.03	<0.1	0.02	8.9	<0.1	<0.05	9	<0.5	<0.2
1197954	Soil	10	45	0.92	329	0.134	2	2.09	0.014	0.17	0.1	0.02	5.6	<0.1	<0.05	7	<0.5	<0.2
1197955	Soil	14	47	0.58	293	0.074	1	1.67	0.012	0.10	0.1	0.02	5.9	<0.1	<0.05	5	<0.5	<0.2
1197956	Soil	9	23	1.08	305	0.196	1	2.21	0.018	0.14	<0.1	0.01	6.0	<0.1	<0.05	9	<0.5	<0.2
1197957	Soil	10	7	0.43	267	0.003	2	1.25	0.010	0.12	<0.1	0.03	2.7	<0.1	<0.05	4	0.6	<0.2
1197958	Soil	12	35	0.50	350	0.069	<1	1.58	0.019	0.06	0.2	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
1197959	Soil	14	51	1.08	248	0.140	<1	2.12	0.019	0.06	<0.1	<0.01	7.4	<0.1	<0.05	9	0.8	<0.2
1197960	Soil	9	42	0.85	326	0.040	<1	2.21	0.011	0.04	0.1	0.01	5.7	<0.1	<0.05	8	0.7	<0.2
1197961	Soil	14	56	1.22	297	0.124	<1	2.45	0.013	0.05	0.1	0.01	8.9	<0.1	<0.05	10	0.7	<0.2
1197962	Soil	10	42	0.93	311	0.105	1	2.05	0.011	0.04	0.1	0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
1197963	Soil	10	44	1.05	259	0.145	<1	2.43	0.015	0.06	<0.1	0.01	5.4	<0.1	<0.05	7	0.8	<0.2
1197964	Soil	8	59	0.91	303	0.119	<1	2.17	0.020	0.05	0.1	<0.01	6.4	<0.1	<0.05	7	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

Page: 4 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN11002508.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197965	Soil	0.8	25.8	7.1	83	<0.1	19.2	22.6	785	4.62	3.7	0.6	0.8	2.6	133	<0.1	0.2	<0.1	130	0.89	0.043
1197966	Soil	1.0	18.5	14.8	51	<0.1	20.8	11.3	361	2.90	8.2	0.8	1.7	5.2	35	<0.1	0.5	0.2	69	0.28	0.020
1197967	Soil	0.5	20.9	25.9	71	<0.1	13.1	16.0	736	3.96	2.9	1.2	1.4	10.7	39	<0.1	0.4	0.7	77	0.48	0.039
1197968	Soil	0.7	20.3	5.8	76	<0.1	17.6	16.4	552	3.88	6.3	0.8	3.8	4.9	65	<0.1	0.4	<0.1	95	0.52	0.043
1197969	Soil	0.9	15.8	8.8	50	<0.1	21.1	9.2	374	2.45	7.6	0.5	4.5	3.8	29	<0.1	0.6	0.1	58	0.32	0.022
1197970	Soil	0.9	21.6	12.7	50	<0.1	22.9	10.8	381	2.70	8.4	0.7	5.7	5.2	27	<0.1	0.6	0.2	67	0.28	0.018
1197971	Soil	0.8	29.0	8.2	47	0.1	22.3	9.7	423	2.35	9.6	0.7	4.1	4.4	42	<0.1	0.6	0.2	52	0.50	0.073
1197972	Soil	0.8	24.8	7.7	45	<0.1	22.2	9.4	253	2.41	8.8	0.8	2.8	4.9	33	<0.1	0.5	0.1	53	0.39	0.055
1197973	Soil	1.2	32.3	9.3	53	<0.1	28.7	12.6	468	3.00	9.3	1.0	4.3	6.2	38	<0.1	0.7	0.1	64	0.49	0.025
1197974	Soil	0.6	22.8	9.1	50	<0.1	22.5	9.9	422	2.19	10.0	0.6	2.0	3.8	47	0.1	0.6	0.1	44	0.85	0.067
1197975	Soil	0.6	35.9	7.0	79	<0.1	30.9	19.1	509	4.03	7.4	0.7	3.9	3.6	57	<0.1	0.5	<0.1	109	0.77	0.047
1197976	Soil	0.5	39.2	6.4	70	<0.1	33.2	19.4	671	3.71	6.1	0.5	0.8	2.8	69	<0.1	0.4	<0.1	105	0.83	0.048
1197977	Soil	0.9	38.1	8.5	56	<0.1	32.9	14.6	421	3.08	9.3	0.8	1.2	4.5	63	<0.1	0.5	0.2	78	0.59	0.032
1197978	Soil	0.7	101.7	9.8	74	<0.1	42.1	22.9	748	4.36	7.0	0.7	4.0	3.0	134	<0.1	0.7	0.1	107	0.97	0.046
1197979	Soil	0.3	86.3	6.3	64	<0.1	32.3	20.3	609	3.68	6.1	0.5	3.2	1.9	95	0.1	0.5	<0.1	114	1.04	0.038
1197980	Soil	0.6	70.9	8.2	59	<0.1	37.6	15.0	582	3.09	9.1	0.8	2.8	4.2	50	<0.1	0.7	0.1	72	0.67	0.049
1197981	Soil	0.6	56.5	7.5	62	<0.1	31.2	16.1	555	3.23	7.7	0.5	3.5	3.0	85	<0.1	0.4	0.1	86	1.36	0.059
1197982	Soil	0.5	65.8	5.3	71	0.1	32.9	18.3	495	3.28	6.3	0.5	6.6	2.2	130	<0.1	0.4	<0.1	86	2.04	0.063
1197983	Soil	0.3	62.7	5.7	70	0.2	35.2	17.7	491	3.20	6.6	0.5	2.8	2.4	132	<0.1	0.3	<0.1	81	2.02	0.061
1197984	Soil	0.6	41.2	7.9	48	<0.1	31.1	11.5	369	2.61	9.1	0.6	3.9	4.0	43	<0.1	0.6	0.1	59	0.54	0.046
1197985	Soil	0.2	40.8	7.1	44	<0.1	23.3	15.2	455	2.79	2.4	0.2	<0.5	0.8	307	<0.1	0.2	<0.1	75	2.87	0.039
1197986	Soil	0.4	31.9	3.8	51	<0.1	25.6	22.5	398	3.24	3.3	1.2	1.6	2.2	243	<0.1	0.4	<0.1	84	5.59	0.071
1196286	Soil	0.7	46.7	4.7	92	0.1	11.6	7.2	631	3.96	5.1	0.9	<0.5	4.0	23	0.1	0.3	<0.1	45	0.38	0.047
1196287	Soil	0.8	47.0	5.5	105	0.1	11.1	7.8	664	4.18	4.8	0.9	4.8	3.8	25	<0.1	0.2	<0.1	50	0.40	0.047
1196288	Soil	0.8	29.7	8.0	96	<0.1	22.4	10.3	706	3.24	7.7	0.6	2.8	3.6	28	0.1	0.5	0.1	63	0.35	0.037
1196289	Soil	0.6	34.2	7.3	89	<0.1	13.8	3.9	843	3.10	7.3	1.0	1.4	4.6	26	<0.1	0.5	0.1	21	0.37	0.023
1196290	Soil	0.4	11.4	3.9	36	<0.1	13.9	10.6	308	2.59	5.1	0.4	<0.5	2.0	19	<0.1	0.4	<0.1	81	0.54	0.056
1196291	Soil	1.2	16.9	5.1	75	<0.1	9.7	6.6	768	3.60	6.3	0.7	2.2	2.2	27	<0.1	0.4	<0.1	28	0.38	0.071
1196292	Soil	1.1	28.8	6.0	90	<0.1	25.6	12.2	498	2.29	2.9	0.3	1.0	2.1	39	0.2	0.3	<0.1	54	0.39	0.030
1196293	Soil	1.2	29.9	9.1	90	<0.1	19.5	8.9	783	3.30	10.2	0.9	1.5	5.1	29	<0.1	0.7	0.1	48	0.38	0.038

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002508.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197965	Soil	7	35	1.53	288	0.256	<1	2.63	0.028	0.09	<0.1	0.01	8.5	<0.1	<0.05	9	<0.5	<0.2
1197966	Soil	13	34	0.54	236	0.068	1	1.80	0.012	0.05	0.1	0.03	5.3	<0.1	<0.05	6	<0.5	<0.2
1197967	Soil	18	14	1.03	286	0.029	<1	2.23	0.010	0.19	<0.1	0.02	6.4	<0.1	<0.05	7	<0.5	<0.2
1197968	Soil	13	25	1.20	348	0.211	<1	2.13	0.015	0.43	0.1	0.02	4.2	0.2	<0.05	6	0.7	<0.2
1197969	Soil	11	33	0.43	270	0.060	<1	1.52	0.012	0.05	0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
1197970	Soil	15	36	0.46	291	0.080	<1	1.73	0.015	0.05	<0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
1197971	Soil	15	23	0.49	211	0.072	1	1.12	0.024	0.05	0.2	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
1197972	Soil	17	29	0.44	237	0.068	<1	1.28	0.020	0.05	0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
1197973	Soil	18	28	0.58	271	0.076	<1	1.59	0.018	0.09	<0.1	0.05	5.9	<0.1	<0.05	5	<0.5	<0.2
1197974	Soil	13	22	0.53	234	0.057	<1	1.00	0.022	0.05	0.2	0.04	3.0	<0.1	<0.05	3	<0.5	<0.2
1197975	Soil	14	56	1.49	216	0.176	1	2.27	0.023	0.06	<0.1	0.05	8.8	<0.1	<0.05	7	<0.5	<0.2
1197976	Soil	10	61	1.53	274	0.194	<1	2.06	0.022	0.06	<0.1	0.02	6.5	<0.1	<0.05	7	<0.5	<0.2
1197977	Soil	16	52	0.95	301	0.139	1	1.93	0.023	0.07	0.1	0.03	5.9	<0.1	<0.05	6	<0.5	<0.2
1197978	Soil	11	85	1.89	209	0.196	1	2.61	0.029	0.06	<0.1	0.04	8.9	<0.1	<0.05	9	<0.5	<0.2
1197979	Soil	7	50	1.70	229	0.185	2	2.37	0.048	0.09	0.1	0.04	8.6	<0.1	<0.05	7	<0.5	<0.2
1197980	Soil	16	47	0.93	243	0.142	1	1.71	0.029	0.08	0.2	0.04	5.6	<0.1	<0.05	5	<0.5	<0.2
1197981	Soil	9	46	1.24	401	0.166	<1	1.95	0.023	0.15	0.1	0.05	4.7	<0.1	<0.05	6	<0.5	<0.2
1197982	Soil	7	60	1.52	280	0.209	2	2.13	0.031	0.10	<0.1	0.04	4.4	<0.1	<0.05	7	<0.5	<0.2
1197983	Soil	8	58	1.41	279	0.189	<1	2.06	0.031	0.09	<0.1	0.05	4.2	<0.1	<0.05	6	<0.5	<0.2
1197984	Soil	15	37	0.62	236	0.098	<1	1.34	0.020	0.07	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
1197985	Soil	2	59	1.51	325	0.171	<1	2.35	0.045	0.17	<0.1	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
1197986	Soil	5	63	1.78	185	0.183	<1	1.88	0.040	0.10	<0.1	0.04	4.8	<0.1	<0.05	8	<0.5	<0.2
1196286	Soil	17	10	0.50	298	0.169	<1	1.72	0.010	0.50	<0.1	0.02	11.2	<0.1	<0.05	9	<0.5	<0.2
1196287	Soil	17	11	0.56	311	0.182	<1	1.80	0.011	0.51	<0.1	0.02	10.9	<0.1	<0.05	9	<0.5	<0.2
1196288	Soil	11	31	0.50	358	0.107	<1	1.79	0.017	0.27	0.1	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
1196289	Soil	29	10	0.47	175	0.034	<1	1.53	0.010	0.13	<0.1	0.06	7.2	<0.1	<0.05	7	<0.5	0.4
1196290	Soil	7	23	0.75	157	0.090	<1	1.48	0.037	0.18	<0.1	0.02	6.3	<0.1	<0.05	5	<0.5	<0.2
1196291	Soil	10	14	0.28	325	0.058	<1	1.98	0.014	0.23	<0.1	0.02	9.0	<0.1	<0.05	9	<0.5	<0.2
1196292	Soil	7	50	0.75	300	0.080	1	1.91	0.014	0.09	<0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
1196293	Soil	21	28	0.34	438	0.042	<1	2.04	0.011	0.12	<0.1	0.03	10.7	<0.1	<0.05	8	0.7	<0.2

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Project: HEN  
 Report Date: July 19, 2011

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN11002508.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196294	Soil	0.9	18.0	10.2	63	0.1	24.2	11.4	601	2.82	9.0	0.5	0.6	4.4	32	0.1	0.5	0.2	65	0.44	0.033
1196295	Soil	0.7	25.0	13.9	81	<0.1	19.3	13.1	583	4.07	7.3	0.6	0.7	3.7	26	<0.1	0.5	0.2	55	0.45	0.034
1196296	Soil	0.8	20.9	11.7	75	<0.1	18.1	11.6	543	3.74	5.7	0.6	4.0	3.8	24	<0.1	0.5	0.1	50	0.40	0.035
1196297	Soil	0.9	22.7	10.1	67	<0.1	14.3	7.1	367	3.19	7.3	0.8	<0.5	5.4	23	<0.1	0.7	0.1	35	0.28	0.030
1196298	Soil	1.2	42.0	41.9	58	0.1	24.6	9.2	461	3.25	12.7	0.8	4.4	4.1	29	<0.1	0.9	0.4	57	0.39	0.030
1196299	Soil	0.8	39.0	17.3	73	0.1	21.0	8.1	504	3.13	10.1	0.9	3.0	4.4	29	<0.1	0.9	0.2	49	0.40	0.042
1196300	Soil	1.3	17.4	22.3	48	0.1	15.9	10.5	673	2.80	6.0	0.4	<0.5	4.2	34	<0.1	0.4	0.3	56	0.44	0.021
1197301	Soil	0.7	20.3	20.1	59	<0.1	15.7	8.3	356	2.61	6.0	0.5	<0.5	3.5	36	0.1	0.4	0.2	53	0.43	0.046
1197308	Soil	1.0	88.4	12.9	115	0.1	23.6	21.5	610	3.51	6.1	0.9	1.7	2.3	63	0.1	0.2	0.1	93	0.65	0.059
1197309	Soil	1.2	35.5	7.6	91	0.1	31.2	17.3	657	4.87	4.9	1.5	<0.5	15.0	17	0.1	0.2	0.1	71	0.33	0.070
1197310	Soil	0.9	31.5	10.7	57	0.1	31.8	11.5	372	3.17	15.9	0.9	2.0	7.1	28	<0.1	0.8	0.2	67	0.33	0.030
1197311	Soil	0.8	47.1	16.6	124	0.1	24.7	14.6	688	3.81	9.9	0.9	0.8	8.1	25	0.2	0.3	0.1	66	0.37	0.051
1197312	Soil	2.5	25.7	12.7	97	0.1	30.2	14.1	474	4.06	18.3	1.0	0.7	10.3	25	0.1	0.5	0.1	76	0.39	0.047
1197313	Soil	6.7	57.5	142.2	150	0.3	51.9	17.9	1159	5.52	918.9	2.0	3.5	11.5	28	0.8	8.2	0.7	82	0.58	0.089
1197314	Soil	0.7	56.2	19.5	106	<0.1	21.5	11.8	605	3.80	12.9	0.8	5.7	5.0	32	0.1	0.7	0.2	74	0.49	0.046
1197315	Soil	0.6	70.4	16.2	86	<0.1	17.5	15.5	742	4.45	6.1	0.8	3.8	3.1	52	<0.1	0.9	0.1	93	0.64	0.058
1197316	Soil	1.0	25.7	27.2	89	0.1	22.7	11.0	500	3.56	9.8	0.9	1.5	6.4	28	0.1	0.5	0.3	63	0.40	0.055
1197317	Soil	0.8	51.3	17.0	83	<0.1	25.2	17.2	646	4.51	11.0	0.7	1.7	3.9	27	<0.1	0.4	0.2	116	0.59	0.039
1197318	Soil	0.8	75.8	36.4	77	0.2	26.9	16.4	598	3.62	6.1	0.7	1.3	3.3	34	0.2	0.5	0.4	90	0.54	0.039
1197319	Soil	0.7	36.0	10.4	92	0.1	20.9	9.9	617	3.58	7.9	1.1	<0.5	7.3	31	0.1	0.6	0.2	51	0.37	0.047
1197320	Soil	0.5	88.8	11.3	72	0.2	20.7	14.3	474	3.08	3.4	0.4	0.9	2.4	25	<0.1	0.2	0.1	85	0.46	0.029
1197321	Soil	1.0	14.0	15.0	103	0.1	17.3	10.0	617	3.44	5.6	0.7	<0.5	5.5	24	0.1	0.5	0.2	62	0.25	0.036
1197322	Soil	0.7	19.9	6.0	111	<0.1	9.8	12.4	1089	4.82	3.0	0.5	<0.5	2.8	16	<0.1	0.2	0.1	53	0.23	0.059
1197323	Soil	0.9	16.2	9.6	89	<0.1	19.5	10.3	1063	3.15	7.0	0.7	0.7	5.6	20	0.1	0.6	0.2	58	0.19	0.032
1197324	Soil	0.9	16.9	10.1	96	<0.1	19.0	9.1	556	3.57	7.4	0.6	2.4	5.5	30	0.1	0.6	0.2	61	0.33	0.026
1197325	Soil	1.2	48.7	15.5	111	<0.1	16.9	14.8	804	4.95	10.9	0.9	3.9	5.6	17	0.1	0.4	0.2	124	0.20	0.017
1196952	Soil	0.8	33.3	6.9	46	<0.1	19.8	16.1	560	4.23	6.6	0.5	1.5	3.1	79	0.1	0.4	0.1	99	0.69	0.099
1196953	Soil	0.6	104.5	4.6	38	0.2	22.9	12.6	256	2.93	3.7	0.5	1.0	2.5	43	<0.1	0.3	<0.1	75	0.49	0.038
1196954	Soil	0.6	30.2	7.6	44	<0.1	17.1	9.6	239	2.62	5.4	0.7	2.1	3.8	32	<0.1	0.4	0.1	64	0.38	0.042
1196955	Soil	0.8	39.1	7.0	67	0.2	17.1	16.1	476	4.01	7.2	0.4	4.8	2.5	77	0.1	0.4	0.1	95	0.54	0.085

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1196294	Soil	15	38	0.41	574	0.075	2	1.93	0.013	0.12	0.1	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2
1196295	Soil	13	15	0.73	614	0.108	1	2.09	0.016	0.40	<0.1	0.02	9.6	0.2	<0.05	9	<0.5	<0.2
1196296	Soil	13	20	0.68	538	0.117	<1	1.96	0.016	0.44	<0.1	0.02	7.9	0.2	<0.05	8	<0.5	<0.2
1196297	Soil	17	21	0.36	282	0.055	1	1.53	0.013	0.16	0.1	0.03	8.3	<0.1	<0.05	6	<0.5	<0.2
1196298	Soil	13	34	0.40	324	0.062	1	2.03	0.013	0.07	0.1	0.04	9.3	<0.1	<0.05	7	<0.5	<0.2
1196299	Soil	19	31	0.39	381	0.064	2	1.85	0.015	0.11	0.1	0.04	10.0	<0.1	<0.05	6	0.5	<0.2
1196300	Soil	12	31	0.36	443	0.067	2	1.97	0.014	0.09	<0.1	0.02	6.3	<0.1	<0.05	6	<0.5	<0.2
1197301	Soil	11	30	0.39	356	0.062	1	1.97	0.014	0.10	<0.1	0.02	7.2	<0.1	<0.05	6	<0.5	<0.2
1197308	Soil	9	32	1.34	240	0.152	1	2.09	0.029	0.30	<0.1	0.02	5.8	<0.1	<0.05	7	<0.5	<0.2
1197309	Soil	29	58	1.16	448	0.261	<1	2.39	0.016	1.18	0.1	0.01	8.3	0.2	<0.05	11	<0.5	<0.2
1197310	Soil	19	44	0.59	327	0.113	<1	1.73	0.016	0.21	0.1	0.02	6.1	0.2	<0.05	6	<0.5	<0.2
1197311	Soil	19	58	0.85	374	0.156	1	2.08	0.013	0.62	<0.1	0.02	8.0	0.2	<0.05	8	<0.5	<0.2
1197312	Soil	24	49	0.86	437	0.158	1	2.43	0.014	0.69	<0.1	0.01	7.5	0.3	<0.05	8	<0.5	<0.2
1197313	Soil	43	35	0.70	365	0.004	1	2.24	0.010	0.12	<0.1	0.07	6.3	<0.1	<0.05	8	1.5	<0.2
1197314	Soil	19	26	0.77	316	0.106	2	2.02	0.023	0.26	<0.1	0.06	8.7	0.1	<0.05	8	<0.5	<0.2
1197315	Soil	14	18	0.93	306	0.051	<1	2.29	0.015	0.25	<0.1	0.03	10.5	<0.1	<0.05	8	<0.5	<0.2
1197316	Soil	19	34	0.58	278	0.115	2	1.90	0.021	0.36	0.1	0.02	7.3	0.2	<0.05	7	<0.5	<0.2
1197317	Soil	13	26	0.78	386	0.100	2	1.78	0.053	0.36	0.1	0.02	12.9	0.1	<0.05	6	<0.5	<0.2
1197318	Soil	12	50	0.81	310	0.107	<1	1.90	0.027	0.22	<0.1	0.02	7.6	<0.1	<0.05	7	<0.5	<0.2
1197319	Soil	23	38	0.72	243	0.092	1	1.80	0.015	0.31	0.1	0.02	6.4	0.1	<0.05	8	0.6	<0.2
1197320	Soil	7	41	0.93	215	0.131	<1	1.88	0.041	0.31	<0.1	0.02	8.6	0.1	<0.05	6	<0.5	<0.2
1197321	Soil	17	29	0.64	434	0.116	1	1.95	0.014	0.30	<0.1	0.01	6.5	0.1	<0.05	8	<0.5	<0.2
1197322	Soil	6	12	1.08	441	0.173	<1	2.22	0.013	0.72	<0.1	0.01	12.6	0.1	<0.05	10	<0.5	<0.2
1197323	Soil	18	30	0.50	353	0.079	<1	1.86	0.011	0.19	<0.1	0.02	5.1	0.2	<0.05	7	<0.5	<0.2
1197324	Soil	16	32	0.55	367	0.119	<1	2.22	0.014	0.27	<0.1	0.01	5.9	0.2	<0.05	9	<0.5	<0.2
1197325	Soil	14	33	1.35	546	0.164	2	2.69	0.016	1.18	<0.1	0.03	14.7	0.5	<0.05	9	0.7	<0.2
1196952	Soil	9	37	0.82	144	0.142	1	2.35	0.048	0.09	0.1	0.02	5.3	<0.1	<0.05	9	<0.5	<0.2
1196953	Soil	10	41	0.71	152	0.125	<1	1.98	0.038	0.05	0.1	0.01	4.0	<0.1	<0.05	7	<0.5	<0.2
1196954	Soil	15	30	0.50	219	0.092	<1	1.65	0.026	0.04	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
1196955	Soil	9	30	0.78	169	0.121	1	2.05	0.045	0.10	0.2	0.02	5.0	<0.1	<0.05	8	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1196956	Soil	0.5	26.4	8.0	47	<0.1	19.1	9.2	267	2.69	6.9	0.8	3.0	3.8	36	<0.1	0.4	0.1	66	0.38	0.042
1196957	Soil	0.7	30.6	5.2	43	<0.1	14.2	8.6	398	2.94	5.0	0.3	<0.5	1.9	95	<0.1	0.3	<0.1	73	0.53	0.127
1196958	Soil	0.6	43.8	5.5	34	<0.1	17.1	12.0	292	3.07	4.4	0.8	1.6	4.0	90	<0.1	0.3	<0.1	81	0.65	0.050
1196959	Soil	0.6	26.5	4.5	54	<0.1	26.2	15.7	478	4.33	4.6	1.0	0.7	5.4	121	<0.1	0.3	<0.1	118	1.46	0.063
1196960	Soil	1.1	17.0	8.8	94	<0.1	16.8	8.5	584	3.79	7.5	0.4	1.2	3.2	19	0.2	0.6	0.1	66	0.18	0.038
1196961	Soil	0.5	24.1	4.1	123	<0.1	5.4	7.8	806	6.52	2.2	0.4	<0.5	2.5	41	0.1	0.3	<0.1	28	0.36	0.103
1196962	Soil	0.8	38.5	7.5	63	<0.1	22.0	14.1	360	3.60	6.4	0.7	1.6	3.5	54	<0.1	0.6	0.1	91	0.54	0.046
1196963	Soil	0.8	23.4	9.8	55	<0.1	23.1	12.1	323	3.40	6.8	0.6	0.8	4.3	31	<0.1	0.6	0.2	81	0.28	0.017
1196964	Soil	0.6	25.5	7.4	46	<0.1	18.7	9.8	255	2.75	7.7	0.7	3.1	3.3	38	<0.1	0.6	0.2	66	0.32	0.038
1196965	Soil	0.9	39.7	6.7	48	<0.1	17.2	8.4	283	2.42	6.7	0.5	16.7	2.6	17	<0.1	0.3	0.1	50	0.21	0.029
1196966	Soil	0.6	12.7	8.1	36	<0.1	15.9	6.8	148	2.50	8.0	0.3	2.9	2.3	13	<0.1	0.4	0.1	56	0.10	0.016
1196967	Soil	0.6	28.9	24.1	125	<0.1	11.1	8.4	583	4.16	4.9	0.7	<0.5	2.1	38	0.1	0.4	0.2	93	0.26	0.036
1196968	Soil	0.5	21.9	5.9	49	0.1	50.0	12.9	306	2.61	5.1	0.3	<0.5	2.2	25	<0.1	0.4	0.1	62	0.21	0.017
1196969	Soil	0.6	5.5	7.2	28	0.3	3.9	3.0	192	0.90	1.7	0.2	1.0	0.7	11	<0.1	0.2	0.2	30	0.12	0.025
1196970	Soil	1.3	11.9	8.1	58	0.1	15.6	9.9	526	3.54	11.4	0.3	2.3	2.4	15	<0.1	0.6	0.2	66	0.16	0.026
1196971	Soil	1.3	18.4	17.3	62	0.2	20.7	10.2	291	3.11	13.5	0.5	1.0	3.0	20	<0.1	0.4	0.2	67	0.28	0.021
1196972	Soil	1.7	110.4	10.4	64	0.1	48.9	11.0	373	3.36	40.1	0.9	9.3	4.2	20	0.1	0.5	0.2	72	0.30	0.044
1196973	Soil	3.9	161.1	5.7	54	0.3	19.6	9.0	228	3.00	5.3	3.8	196.5	2.0	24	<0.1	0.3	0.3	70	0.32	0.062
1196974	Soil	0.9	143.8	5.5	252	0.2	44.2	30.2	346	7.08	6.4	1.0	8.6	2.9	21	<0.1	0.3	0.2	49	0.35	0.103
1196975	Soil	0.4	10.7	4.0	27	<0.1	12.7	14.4	323	3.46	5.2	0.5	3.1	2.7	62	<0.1	0.2	<0.1	82	0.53	0.139
1196976	Soil	1.4	39.2	9.3	49	0.2	24.5	9.8	248	3.15	9.6	0.5	4.2	3.3	18	<0.1	0.6	0.2	72	0.14	0.031
1196977	Soil	17.6	87.1	12.8	44	0.4	18.9	7.0	182	3.48	7.9	2.7	3.7	5.4	70	<0.1	0.5	0.8	118	0.14	0.054
1196978	Soil	21.5	98.0	13.7	44	0.5	16.9	6.0	172	3.69	6.9	2.9	4.4	5.7	81	<0.1	0.6	1.0	125	0.13	0.064
1196979	Soil	0.8	42.2	10.2	130	<0.1	33.0	35.3	1023	2.39	5.0	1.8	1.2	6.3	22	0.3	0.3	0.3	54	0.87	0.216
1196980	Soil	0.8	19.3	7.5	50	<0.1	17.2	11.3	363	3.05	6.7	0.6	2.6	5.8	16	<0.1	0.4	0.1	58	0.21	0.013
1196981	Soil	0.5	13.4	14.0	47	<0.1	6.8	3.7	1054	1.64	4.1	0.2	<0.5	0.7	121	0.5	0.2	<0.1	23	19.13	0.134
1196982	Soil	0.8	20.5	13.0	49	<0.1	19.3	10.2	407	2.34	5.2	0.8	4.0	3.0	20	0.2	0.2	0.2	52	0.62	0.052
1196983	Soil	0.9	12.1	10.2	46	<0.1	15.7	9.7	445	2.36	4.6	0.8	3.1	2.5	21	0.2	0.3	0.2	59	0.53	0.035
1194956	Soil	0.6	36.0	10.1	47	<0.1	5.5	10.7	248	3.83	14.7	1.0	3.7	3.9	215	<0.1	0.2	0.1	61	0.70	0.074
1194957	Soil	0.7	18.5	2.9	41	<0.1	4.7	16.5	482	5.73	<0.5	0.7	0.9	3.7	110	<0.1	0.2	<0.1	59	0.52	0.092

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1196956	Soil	14	33	0.56	267	0.096	<1	1.73	0.024	0.05	0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
1196957	Soil	7	29	0.60	164	0.104	<1	1.56	0.037	0.11	<0.1	0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
1196958	Soil	17	32	0.64	189	0.134	<1	2.07	0.050	0.06	<0.1	<0.01	6.4	<0.1	<0.05	7	<0.5	<0.2
1196959	Soil	26	44	1.18	200	0.190	<1	2.98	0.084	0.06	<0.1	0.01	10.3	<0.1	<0.05	11	<0.5	<0.2
1196960	Soil	9	28	0.53	249	0.081	<1	2.03	0.011	0.06	<0.1	0.02	6.7	<0.1	<0.05	9	<0.5	<0.2
1196961	Soil	5	7	0.87	406	0.356	<1	2.97	0.019	0.93	<0.1	0.01	9.3	0.3	<0.05	13	<0.5	<0.2
1196962	Soil	14	36	0.81	297	0.144	1	2.26	0.027	0.08	<0.1	0.02	6.0	<0.1	<0.05	7	<0.5	<0.2
1196963	Soil	12	41	0.60	348	0.094	<1	2.39	0.020	0.05	<0.1	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
1196964	Soil	10	30	0.55	228	0.073	<1	1.72	0.015	0.04	0.1	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
1196965	Soil	9	23	0.53	168	0.066	<1	1.53	0.012	0.05	0.1	<0.01	2.3	0.1	<0.05	5	<0.5	<0.2
1196966	Soil	6	27	0.41	150	0.045	<1	1.80	0.007	0.03	0.1	0.02	1.9	0.1	<0.05	5	<0.5	<0.2
1196967	Soil	6	17	0.75	149	0.125	<1	2.15	0.013	0.07	<0.1	<0.01	4.9	<0.1	<0.05	11	<0.5	<0.2
1196968	Soil	10	188	1.11	187	0.091	<1	2.30	0.011	0.05	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
1196969	Soil	7	11	0.15	92	0.056	<1	0.62	0.011	0.04	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
1196970	Soil	8	27	0.60	162	0.082	<1	1.82	0.009	0.07	0.1	0.03	4.1	<0.1	<0.05	8	0.8	<0.2
1196971	Soil	10	33	0.73	231	0.057	<1	2.10	0.010	0.04	0.1	0.02	3.0	0.1	<0.05	6	<0.5	<0.2
1196972	Soil	15	38	0.83	240	0.062	1	1.85	0.011	0.07	0.1	0.07	5.5	<0.1	<0.05	6	<0.5	<0.2
1196973	Soil	8	35	1.02	374	0.147	<1	1.93	0.013	0.21	<0.1	0.02	3.2	0.2	0.05	7	0.9	<0.2
1196974	Soil	10	27	2.39	190	0.049	2	1.98	0.009	0.05	<0.1	0.02	3.5	0.2	<0.05	9	0.8	<0.2
1196975	Soil	8	21	0.84	195	0.136	<1	2.23	0.030	0.24	0.2	0.01	3.7	<0.1	<0.05	8	<0.5	<0.2
1196976	Soil	8	37	0.51	253	0.073	<1	2.20	0.008	0.08	0.1	0.01	2.5	0.3	<0.05	7	<0.5	<0.2
1196977	Soil	26	36	0.42	196	0.042	<1	1.63	0.049	0.26	0.2	<0.01	4.5	0.4	0.35	5	3.6	<0.2
1196978	Soil	28	36	0.41	181	0.040	<1	1.50	0.053	0.31	0.2	0.02	4.1	0.4	0.45	5	3.5	<0.2
1196979	Soil	15	25	1.39	166	0.047	<1	1.73	0.009	0.03	0.1	0.01	3.2	0.1	<0.05	5	<0.5	<0.2
1196980	Soil	12	28	0.74	196	0.109	1	2.29	0.011	0.14	0.2	0.02	2.6	0.2	<0.05	6	<0.5	<0.2
1196981	Soil	4	11	7.36	83	0.021	2	0.64	0.011	0.02	<0.1	<0.01	1.8	<0.1	0.10	2	<0.5	<0.2
1196982	Soil	11	26	0.77	321	0.057	1	1.62	0.012	0.04	0.1	0.05	3.3	0.1	<0.05	5	<0.5	<0.2
1196983	Soil	9	26	0.62	278	0.054	<1	1.66	0.013	0.04	0.1	0.04	3.1	0.1	<0.05	6	<0.5	<0.2
1194956	Soil	20	15	0.99	3370	0.158	<1	2.28	0.036	0.23	<0.1	0.02	5.6	<0.1	<0.05	8	<0.5	<0.2
1194957	Soil	15	11	1.43	2295	0.026	<1	2.74	0.008	0.25	<0.1	0.01	7.8	<0.1	<0.05	9	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002508.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1194958	Soil	1.9	36.7	4.8	68	<0.1	6.8	15.5	486	4.98	6.9	1.0	2.3	3.8	503	0.1	0.4	0.1	69	1.36	0.073
1194959	Soil	1.7	30.9	279.2	81	0.5	6.1	16.7	832	4.88	9.0	1.9	1.9	2.7	256	0.2	1.6	1.5	68	0.81	0.066
1194961	Soil	1.1	49.9	112.5	112	0.4	20.7	20.0	984	4.43	4.8	1.0	2.0	4.6	145	0.6	1.3	0.8	85	1.40	0.043
1197302	Soil	0.8	10.5	12.6	45	<0.1	8.6	7.7	322	3.10	4.0	0.6	1.9	2.7	137	<0.1	0.3	<0.1	44	0.88	0.040
1197303	Soil	0.7	19.2	29.2	52	0.2	14.0	10.5	421	3.43	4.3	0.6	2.1	2.5	98	0.2	0.3	0.3	61	1.34	0.068
1197304	Soil	0.7	25.2	14.4	48	0.2	20.3	11.2	369	2.79	7.5	0.4	2.6	2.8	66	0.2	0.6	0.2	64	0.85	0.033
1197305	Soil	0.7	31.5	14.0	47	0.1	23.8	10.1	373	2.43	8.3	1.0	3.9	2.7	163	0.2	0.7	0.2	56	5.27	0.055
1197306	Soil	0.6	40.7	14.4	36	0.3	20.0	8.8	244	1.81	9.3	0.7	6.8	1.0	180	0.2	0.8	0.2	48	9.79	0.074
1197307	Soil	0.9	27.5	9.5	51	0.1	24.2	9.9	528	2.33	7.8	0.5	1.6	2.8	82	0.2	0.7	0.2	50	2.30	0.039
1197335	Soil	0.6	29.6	9.1	46	<0.1	4.5	10.7	264	3.71	7.9	1.0	<0.5	3.7	216	<0.1	0.2	0.1	59	0.78	0.074
1197336	Soil	16.4	30.4	286.4	55	1.7	21.7	12.0	328	2.85	10.2	0.6	2.7	3.3	41	0.1	0.6	6.5	71	0.53	0.042
1197337	Soil	9.5	54.5	83.5	126	0.5	54.1	15.2	433	3.34	34.9	2.0	4.7	5.2	52	0.6	1.0	1.1	119	0.63	0.097
1197338	Soil	1.6	52.6	13.8	121	0.2	37.1	18.8	610	4.30	18.1	2.3	2.7	18.3	75	0.2	0.2	0.1	79	0.70	0.084
1197339	Soil	1.4	28.9	40.3	88	0.1	31.4	13.7	685	3.08	15.5	0.8	2.7	6.6	38	0.2	0.5	0.4	61	0.52	0.058
1197340	Soil	0.9	39.8	10.2	94	<0.1	18.1	15.6	828	3.38	6.2	0.4	1.6	1.8	56	0.4	0.4	0.1	89	0.86	0.066
1197341	Soil	0.6	39.4	17.3	73	0.2	26.1	14.9	730	3.06	8.3	0.5	3.6	1.8	65	0.1	0.5	0.3	85	1.71	0.068
1197342	Soil	0.8	21.8	36.3	55	0.1	20.5	9.8	557	2.56	8.2	0.4	1.9	3.2	43	0.1	0.5	0.3	55	0.60	0.039
1197343	Soil	1.4	25.4	76.5	54	0.3	22.3	10.7	541	2.68	8.3	0.5	8.9	4.0	44	0.1	0.5	0.8	60	0.93	0.039
1197344	Soil	1.0	37.6	10.6	86	<0.1	14.0	9.7	778	3.51	6.0	0.5	1.2	3.9	26	<0.1	0.3	0.1	38	0.44	0.045
1197345	Soil	1.1	32.9	22.9	61	0.1	21.2	15.6	531	3.76	6.5	0.5	1.2	2.7	55	<0.1	0.4	0.2	111	0.62	0.038
1197346	Soil	0.7	21.5	20.6	45	0.1	14.0	6.9	404	1.73	4.6	1.3	1.8	0.8	77	0.3	0.5	0.2	34	1.78	0.065
1197347	Soil	1.2	25.7	26.1	59	0.2	18.0	7.6	337	2.29	6.8	0.6	2.4	2.6	53	0.2	0.6	0.3	38	1.33	0.064
1197348	Soil	1.2	34.8	22.3	72	0.2	28.2	10.4	516	2.66	8.9	0.9	2.7	3.0	63	0.4	1.0	0.2	46	1.26	0.072
1197349	Soil	0.7	28.6	14.7	53	0.1	23.0	9.0	367	2.23	8.1	0.8	8.3	3.3	79	0.2	0.7	0.2	52	2.03	0.070
1197350	Soil	1.0	33.1	53.8	59	0.2	10.7	5.9	994	3.61	4.2	0.7	2.3	2.0	76	0.2	0.7	0.3	23	3.09	0.069
1194951	Soil	1.0	44.6	23.3	109	<0.1	2.5	11.4	1280	3.72	<0.5	0.9	1.9	3.6	86	0.2	0.4	<0.1	38	2.24	0.036
1194952	Soil	0.7	28.6	16.1	45	0.2	21.8	8.3	382	2.11	7.7	0.6	4.5	2.9	113	0.2	0.7	0.2	38	4.28	0.077
1194953	Soil	1.0	35.8	70.1	44	0.4	6.5	4.6	823	4.56	3.8	0.6	9.3	2.0	84	0.1	0.7	0.8	14	1.48	0.065
1194954	Soil	0.8	36.3	193.2	62	1.1	17.9	9.6	636	3.63	7.9	0.5	6.3	3.3	64	0.1	0.7	3.0	48	0.81	0.030
1194955	Soil	1.2	48.1	6.1	39	0.1	10.5	15.7	264	5.61	6.6	1.3	1.4	4.7	197	<0.1	0.2	0.5	94	0.88	0.105

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002508.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1194958	Soil	22	16	1.38	3315	0.126	1	2.73	0.020	0.16	0.1	0.04	5.5	<0.1	<0.05	8	<0.5	<0.2
1194959	Soil	11	20	1.27	362	0.079	<1	2.34	0.011	0.06	0.1	0.04	8.7	<0.1	<0.05	9	<0.5	<0.2
1194961	Soil	17	48	1.38	553	0.019	1	2.19	0.009	0.08	<0.1	0.03	11.0	<0.1	<0.05	8	<0.5	<0.2
1197302	Soil	10	14	0.48	464	0.044	<1	1.92	0.009	0.08	<0.1	0.02	6.0	<0.1	<0.05	8	<0.5	<0.2
1197303	Soil	11	24	0.57	398	0.057	2	1.82	0.018	0.12	0.1	0.02	8.5	<0.1	<0.05	8	<0.5	<0.2
1197304	Soil	11	26	0.56	326	0.068	2	1.68	0.019	0.09	0.1	0.02	5.5	<0.1	<0.05	6	0.5	<0.2
1197305	Soil	10	26	0.83	368	0.068	1	1.39	0.034	0.07	0.2	0.03	5.1	<0.1	<0.05	4	<0.5	<0.2
1197306	Soil	7	19	0.61	260	0.038	3	1.16	0.024	0.04	0.2	0.08	2.9	<0.1	0.07	4	1.0	<0.2
1197307	Soil	11	26	0.47	450	0.052	3	1.38	0.019	0.05	0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
1197335	Soil	20	13	1.05	4167	0.181	<1	2.38	0.047	0.28	<0.1	0.02	5.5	0.1	<0.05	8	<0.5	<0.2
1197336	Soil	10	37	0.52	248	0.062	<1	1.72	0.012	0.08	0.2	0.03	5.0	<0.1	<0.05	5	<0.5	0.3
1197337	Soil	20	53	0.89	465	0.082	2	1.78	0.014	0.15	0.1	0.04	6.5	<0.1	<0.05	7	1.5	<0.2
1197338	Soil	67	63	1.10	293	0.232	<1	2.26	0.008	0.61	<0.1	0.04	8.2	0.2	<0.05	12	0.6	<0.2
1197339	Soil	29	52	0.77	344	0.068	2	1.77	0.014	0.25	0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
1197340	Soil	8	19	0.80	325	0.088	3	1.72	0.025	0.25	0.1	0.02	5.8	<0.1	<0.05	6	<0.5	<0.2
1197341	Soil	15	30	0.91	286	0.066	3	1.56	0.024	0.17	0.1	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
1197342	Soil	15	29	0.42	528	0.053	2	1.55	0.014	0.12	0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
1197343	Soil	17	29	0.56	389	0.064	1	1.42	0.020	0.11	0.2	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
1197344	Soil	17	19	0.52	424	0.055	<1	1.73	0.011	0.21	<0.1	0.02	6.5	<0.1	<0.05	8	<0.5	<0.2
1197345	Soil	11	33	0.92	312	0.092	3	1.89	0.020	0.16	0.1	0.01	9.2	<0.1	<0.05	7	0.8	<0.2
1197346	Soil	7	20	0.36	511	0.031	4	1.00	0.018	0.07	0.1	0.03	2.4	<0.1	0.06	3	1.2	<0.2
1197347	Soil	13	21	0.41	562	0.039	2	0.90	0.017	0.11	0.2	0.03	3.7	<0.1	<0.05	3	0.6	<0.2
1197348	Soil	14	24	0.46	581	0.043	4	1.16	0.030	0.12	0.1	0.05	4.8	<0.1	0.05	4	1.0	<0.2
1197349	Soil	10	25	0.72	379	0.074	1	1.02	0.039	0.07	0.2	<0.01	3.3	<0.1	<0.05	3	0.6	<0.2
1197350	Soil	16	12	0.31	612	0.015	3	1.24	0.013	0.12	0.1	0.03	10.8	<0.1	<0.05	5	<0.5	<0.2
1194951	Soil	19	3	0.55	341	0.001	1	1.51	0.009	0.06	<0.1	<0.01	11.6	<0.1	<0.05	7	<0.5	<0.2
1194952	Soil	11	21	0.66	402	0.060	2	0.93	0.023	0.06	0.1	0.04	3.0	<0.1	<0.05	3	<0.5	<0.2
1194953	Soil	15	9	0.30	610	0.007	2	1.57	0.010	0.12	0.1	0.02	10.4	<0.1	<0.05	10	0.6	<0.2
1194954	Soil	16	24	0.51	359	0.043	3	1.62	0.014	0.08	0.1	0.03	9.1	<0.1	<0.05	8	<0.5	<0.2
1194955	Soil	23	15	1.43	1916	0.176	1	2.87	0.017	0.43	0.1	0.03	9.6	0.1	<0.05	12	1.1	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1192451	Soil		1.7	17.9	63.4	110	<0.1	7.4	6.5	469	3.27	2.8	5.5	1.0	4.8	76	0.4	0.2	0.6	32	0.41	0.023
1192452	Soil		0.7	26.5	39.9	120	<0.1	19.5	8.1	519	3.15	7.6	1.6	3.4	10.3	23	0.2	0.5	0.3	47	0.28	0.037
1192453	Soil		0.9	26.7	72.4	56	0.2	24.0	11.2	542	2.95	9.2	0.6	7.3	6.6	28	<0.1	0.6	0.6	56	0.36	0.022
1192455	Soil		5.8	22.2	143.0	90	0.1	15.1	7.7	715	3.26	7.9	1.7	1.2	9.8	20	0.1	0.5	1.1	38	0.30	0.053
1192456	Soil		0.8	32.0	16.4	65	0.2	27.5	10.6	455	3.10	11.3	0.9	7.9	5.4	28	0.1	0.6	0.2	58	0.33	0.033
1192457	Soil		0.8	17.8	12.2	75	<0.1	16.5	10.1	727	2.95	5.6	0.6	1.0	5.0	25	0.1	0.4	0.2	50	0.27	0.038
1192458	Soil		0.6	12.7	8.7	83	<0.1	12.4	9.0	801	3.14	5.7	0.5	<0.5	3.4	23	<0.1	0.4	0.2	42	0.26	0.038
1192459	Soil		0.5	11.5	4.2	68	<0.1	6.7	6.5	487	2.59	3.5	0.4	1.6	2.1	12	<0.1	0.1	<0.1	37	0.12	0.026
1192460	Soil		0.4	24.4	2.6	219	<0.1	7.4	3.9	1132	4.75	3.5	0.6	0.8	2.5	14	<0.1	0.2	<0.1	18	0.17	0.035
1192461	Soil		0.6	24.0	6.2	85	<0.1	15.9	12.3	511	3.89	6.8	0.7	<0.5	2.9	42	0.1	0.3	0.1	64	0.60	0.200
1192462	Soil		0.6	31.5	7.8	78	<0.1	27.8	12.4	458	3.55	11.0	0.8	3.3	4.4	31	0.1	0.7	0.2	66	0.31	0.052
1192463	Soil		0.7	19.4	9.1	82	0.2	16.5	12.1	650	3.48	4.9	0.7	6.6	3.3	49	<0.1	0.4	0.2	76	0.38	0.075
1192469	Soil		0.4	34.3	4.9	74	<0.1	20.5	15.3	508	3.29	5.2	0.4	1.6	1.8	62	<0.1	0.4	0.1	77	0.40	0.088
1192470	Soil		0.4	25.1	7.4	87	0.1	17.4	13.8	504	3.19	5.2	0.4	1.1	2.2	112	0.1	0.3	<0.1	90	0.44	0.080
1192471	Soil		0.3	68.6	3.4	61	<0.1	12.8	18.2	256	3.58	4.0	0.2	0.8	1.1	95	<0.1	0.1	<0.1	121	0.46	0.098
1192472	Soil		0.7	23.4	16.3	61	<0.1	19.1	13.4	456	3.08	7.3	0.4	<0.5	2.5	34	<0.1	0.4	0.2	78	0.33	0.061
1192473	Soil		0.3	25.2	2.3	23	<0.1	26.4	9.3	156	2.03	3.7	0.3	0.8	1.5	37	<0.1	0.1	<0.1	56	0.43	0.049
1192474	Soil		0.8	18.6	7.7	58	<0.1	18.5	11.7	462	3.24	7.5	0.5	1.1	3.4	20	<0.1	0.4	0.1	86	0.23	0.060
1192475	Soil		0.6	97.6	9.4	150	<0.1	15.6	18.1	485	4.89	5.1	0.6	0.6	2.6	29	0.2	0.2	0.2	133	0.49	0.091
1192476	Soil		0.9	15.1	4.7	229	<0.1	13.3	16.8	1299	3.56	4.6	0.5	0.8	2.3	26	0.4	0.2	0.1	49	0.20	0.088
1192477	Soil		0.9	17.4	8.2	66	<0.1	19.5	10.3	548	2.76	7.3	0.4	2.0	2.7	23	<0.1	0.4	0.1	63	0.23	0.031
1192380	Soil		1.5	54.8	33.4	114	0.3	42.3	22.4	512	4.37	5.1	1.9	0.7	11.3	109	0.3	0.2	0.5	79	0.46	0.067
1192381	Soil		1.9	40.0	12.6	79	<0.1	29.4	14.4	328	3.57	38.3	0.7	<0.5	6.1	41	0.2	0.6	0.2	67	0.46	0.034
1192286	Soil		1.5	18.6	8.5	69	<0.1	16.3	11.7	345	3.01	6.6	0.7	0.8	3.2	28	0.2	0.5	0.2	57	0.32	0.034
1192287	Soil		1.7	19.3	8.5	69	0.1	16.3	11.5	341	3.04	6.4	0.7	1.3	3.2	29	0.2	0.4	0.2	56	0.33	0.035
1192288	Soil		1.3	19.6	11.3	48	<0.1	16.0	10.5	287	2.94	8.4	0.6	3.2	2.6	39	0.1	0.4	0.1	54	0.49	0.062
1192289	Soil		1.1	19.3	7.9	49	<0.1	20.7	10.4	345	2.54	9.2	0.5	1.4	3.3	28	0.1	0.6	0.1	58	0.34	0.053
1192290	Soil		3.1	62.9	24.2	183	0.2	36.3	21.8	555	4.07	3.1	1.0	<0.5	3.1	99	1.1	<0.1	0.3	128	0.76	0.082
1192291	Soil		3.8	78.7	18.6	136	0.1	38.7	17.9	722	4.61	5.9	1.8	<0.5	4.7	56	0.6	<0.1	0.3	121	0.55	0.173
1192292	Soil		3.6	60.0	4.7	104	<0.1	56.0	20.6	381	5.36	5.8	1.2	<0.5	8.7	70	0.6	<0.1	0.2	144	0.47	0.109

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1192451	Soil	23	13	0.38	191	0.044	1	1.61	0.012	0.19	<0.1	0.01	9.8	<0.1	<0.05	7	<0.5	<0.2
1192452	Soil	36	26	0.46	228	0.110	1	1.40	0.013	0.33	0.2	0.05	7.5	0.2	<0.05	6	<0.5	<0.2
1192453	Soil	22	33	0.45	299	0.098	2	1.53	0.012	0.20	0.2	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2
1192455	Soil	32	19	0.33	251	0.045	<1	1.42	0.008	0.23	0.2	0.03	6.8	0.1	<0.05	6	<0.5	<0.2
1192456	Soil	22	36	0.49	279	0.102	2	1.75	0.010	0.23	0.1	0.03	6.7	<0.1	<0.05	6	<0.5	<0.2
1192457	Soil	16	26	0.48	392	0.082	1	1.81	0.009	0.28	<0.1	<0.01	5.4	0.1	<0.05	6	<0.5	<0.2
1192458	Soil	10	18	0.51	277	0.043	<1	1.83	0.006	0.29	0.2	<0.01	5.5	0.1	<0.05	7	<0.5	<0.2
1192459	Soil	5	10	0.52	236	0.131	<1	1.52	0.007	0.49	0.1	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
1192460	Soil	9	11	1.09	274	0.188	<1	2.15	0.009	0.92	<0.1	<0.01	18.8	0.2	<0.05	16	<0.5	<0.2
1192461	Soil	9	20	0.76	272	0.152	<1	2.13	0.017	0.42	0.1	<0.01	6.6	0.1	<0.05	8	<0.5	<0.2
1192462	Soil	18	34	0.54	261	0.114	1	1.80	0.015	0.24	0.1	0.02	7.4	<0.1	<0.05	6	<0.5	<0.2
1192463	Soil	13	25	0.57	309	0.077	<1	1.71	0.011	0.26	0.1	0.03	6.6	<0.1	<0.05	7	<0.5	<0.2
1192469	Soil	6	29	0.99	237	0.133	1	2.04	0.012	0.39	0.1	<0.01	4.1	<0.1	<0.05	7	<0.5	<0.2
1192470	Soil	6	24	0.78	303	0.117	<1	1.89	0.022	0.30	<0.1	<0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
1192471	Soil	4	11	0.89	346	0.178	<1	1.90	0.029	0.54	<0.1	<0.01	3.6	0.1	<0.05	7	<0.5	<0.2
1192472	Soil	7	30	0.77	237	0.110	<1	2.04	0.014	0.12	0.2	0.02	2.9	<0.1	<0.05	7	0.5	<0.2
1192473	Soil	6	71	0.57	89	0.077	<1	1.63	0.020	0.08	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
1192474	Soil	9	31	0.54	162	0.090	1	1.89	0.016	0.09	<0.1	<0.01	4.1	<0.1	<0.05	6	<0.5	<0.2
1192475	Soil	11	22	0.94	195	0.130	<1	2.01	0.027	0.08	<0.1	<0.01	5.5	<0.1	<0.05	8	<0.5	<0.2
1192476	Soil	15	16	0.74	253	0.144	1	1.84	0.009	0.55	<0.1	0.01	3.4	0.2	<0.05	8	<0.5	<0.2
1192477	Soil	8	30	0.45	324	0.070	<1	1.75	0.011	0.09	0.2	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
1192380	Soil	49	40	1.17	250	0.268	3	2.54	0.011	1.28	<0.1	0.05	5.2	0.5	<0.05	10	<0.5	<0.2
1192381	Soil	11	52	0.83	249	0.113	<1	1.70	0.018	0.19	<0.1	0.02	5.1	0.2	<0.05	8	<0.5	<0.2
1192286	Soil	10	30	0.42	433	0.075	<1	1.65	0.013	0.15	0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
1192287	Soil	10	29	0.41	439	0.073	<1	1.65	0.012	0.16	0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
1192288	Soil	8	23	0.50	648	0.083	<1	1.67	0.014	0.18	0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
1192289	Soil	10	30	0.44	480	0.078	<1	1.37	0.014	0.10	0.2	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1192290	Soil	11	57	1.47	825	0.154	<1	2.47	0.025	0.70	0.1	0.02	7.2	0.3	<0.05	9	1.8	<0.2
1192291	Soil	15	39	1.56	397	0.170	1	2.47	0.015	0.72	0.1	0.01	5.8	0.3	<0.05	10	2.6	<0.2
1192292	Soil	18	77	1.78	700	0.257	1	3.62	0.025	1.16	<0.1	<0.01	6.9	0.7	<0.05	10	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002508.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1192293	Soil	0.8	18.0	13.5	98	0.2	20.7	12.8	547	3.04	7.0	0.6	2.6	3.1	52	0.3	0.5	0.2	72	0.47	0.063
1192294	Soil	0.7	34.0	8.7	69	0.1	24.7	10.1	399	3.15	11.4	0.7	7.5	4.2	34	0.1	0.6	0.1	73	0.47	0.056
1192295	Soil	0.7	36.3	7.4	78	0.1	17.8	12.3	517	3.46	5.5	0.7	0.7	3.9	33	0.1	0.5	0.1	83	0.43	0.053
1192296	Soil	0.7	29.8	11.6	75	<0.1	20.4	14.6	501	3.19	6.4	0.5	1.8	2.8	46	0.1	0.4	0.2	84	0.48	0.070
1192297	Soil	0.8	25.4	8.4	79	<0.1	17.4	12.1	529	4.02	11.9	0.3	2.6	2.4	30	0.1	0.3	0.2	89	0.72	0.237
1192298	Soil	0.2	13.5	2.1	15	<0.1	29.4	9.2	235	1.64	7.3	0.1	<0.5	1.9	139	<0.1	0.2	0.1	50	0.40	0.051
1192299	Soil	0.4	34.3	2.5	23	<0.1	12.2	18.1	349	4.12	5.2	0.3	<0.5	0.8	68	<0.1	0.3	<0.1	96	1.41	0.259
1192300	Soil	0.4	48.7	9.1	30	0.1	25.7	15.6	369	3.46	9.4	0.6	2.2	3.0	35	<0.1	0.4	0.1	99	0.69	0.044
1192351	Soil	0.6	36.4	5.5	131	<0.1	20.4	15.3	502	3.12	4.4	0.3	3.5	1.5	110	0.2	0.3	0.1	90	0.56	0.072
1192352	Soil	0.8	26.0	4.0	107	<0.1	14.7	19.1	873	5.13	4.5	0.6	2.6	3.0	22	0.1	0.2	<0.1	111	0.62	0.104
1192353	Soil	1.2	34.6	4.9	96	<0.1	13.3	19.3	879	4.93	11.9	0.3	<0.5	1.8	30	<0.1	0.3	<0.1	133	0.69	0.059
1192354	Soil	0.6	48.0	13.3	109	0.2	6.0	21.5	995	6.00	13.3	0.4	1.6	0.6	86	0.1	0.4	<0.1	158	4.05	0.207
1192356	Soil	1.5	41.7	14.3	59	0.2	28.9	11.3	447	3.05	60.9	0.8	6.8	3.9	29	0.1	0.6	0.4	62	0.47	0.039
1192357	Soil	6.2	46.5	10.3	45	0.5	42.0	11.1	675	2.62	50.9	3.5	1.2	3.2	90	0.5	0.2	0.3	83	11.52	0.345
1192358	Soil	0.7	31.8	7.4	43	0.1	22.5	9.4	440	2.18	10.5	0.5	5.5	1.7	108	0.2	0.6	0.1	45	8.72	0.092
1192359	Soil	1.0	53.3	6.1	75	0.1	37.0	24.0	666	4.24	12.1	0.7	3.4	1.8	108	0.2	0.5	0.1	104	5.87	0.103
1192360	Soil	0.4	35.6	3.2	68	0.1	22.6	23.2	259	4.02	4.2	0.4	0.8	1.1	16	<0.1	0.2	<0.1	106	0.74	0.135
1192361	Soil	1.4	33.2	5.5	60	0.2	26.4	9.3	521	3.18	5.5	0.9	0.8	3.8	74	0.3	0.2	0.2	50	8.04	0.187
1192362	Soil	0.9	110.0	5.7	98	0.2	163.1	45.8	701	5.97	22.1	0.4	0.8	1.3	17	0.1	0.2	0.1	114	0.69	0.100
1192363	Soil	8.1	149.3	18.9	189	0.3	135.8	36.3	707	7.79	177.7	5.2	1.0	10.7	45	0.4	0.3	0.3	128	0.46	0.126
1192364	Soil	3.2	78.6	24.5	215	0.2	68.6	26.3	1096	5.00	28.3	1.6	1.3	11.9	35	0.2	0.3	0.2	85	0.66	0.074
1192365	Soil	1.6	21.5	5.8	86	<0.1	10.4	22.1	1024	6.11	16.5	1.2	0.8	7.8	58	<0.1	0.3	<0.1	148	0.52	0.028
1192366	Soil	1.1	58.7	8.7	115	<0.1	9.6	20.5	906	5.13	6.8	0.6	1.0	2.2	45	0.2	0.3	<0.1	92	0.83	0.136
1192367	Soil	1.1	28.7	11.7	57	<0.1	23.5	10.0	440	2.99	13.8	1.1	6.0	5.8	31	<0.1	0.6	0.1	61	0.37	0.051
1192368	Soil	1.2	27.8	16.9	128	<0.1	12.1	7.8	846	4.74	8.3	1.3	5.0	16.5	27	<0.1	0.4	0.1	30	0.35	0.056
1192369	Soil	1.0	35.3	13.8	68	<0.1	25.3	11.0	515	3.05	10.7	0.8	2.6	6.0	32	<0.1	0.9	0.2	59	0.46	0.029
1192370	Soil	0.8	29.1	10.0	68	0.1	21.5	9.3	451	2.61	7.5	0.8	2.5	2.3	64	0.4	0.7	0.2	51	1.16	0.068
1192375	Soil	0.9	27.6	8.2	69	0.1	20.6	8.7	415	2.42	8.4	0.7	3.6	2.4	63	0.4	0.8	0.1	50	1.19	0.067
1192376	Soil	0.8	26.5	8.1	67	<0.1	20.6	8.2	420	2.28	7.7	0.7	2.8	2.2	66	0.4	0.6	0.1	46	1.28	0.069
1192496	Soil	0.5	10.1	12.1	17	<0.1	4.7	3.0	83	1.04	2.0	0.4	2.0	0.7	17	<0.1	0.2	0.2	43	0.21	0.022



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1192293	Soil	11	38	0.50	304	0.078	<1	1.94	0.016	0.11	0.1	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2
1192294	Soil	14	34	0.53	217	0.096	1	1.56	0.017	0.12	0.2	0.05	5.8	<0.1	<0.05	5	<0.5	<0.2
1192295	Soil	13	28	0.59	190	0.084	<1	1.84	0.017	0.11	<0.1	0.03	7.6	<0.1	<0.05	7	<0.5	<0.2
1192296	Soil	10	34	0.61	228	0.097	<1	2.03	0.028	0.16	0.1	0.02	5.9	<0.1	<0.05	6	<0.5	<0.2
1192297	Soil	7	25	0.61	205	0.066	<1	1.72	0.021	0.08	<0.1	0.02	7.0	0.1	<0.05	8	<0.5	<0.2
1192298	Soil	8	100	1.02	166	0.081	1	1.70	0.020	0.04	<0.1	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
1192299	Soil	2	16	1.03	212	0.168	1	2.81	0.065	0.15	0.1	<0.01	6.6	<0.1	<0.05	9	<0.5	<0.2
1192300	Soil	9	45	1.08	153	0.103	2	2.10	0.048	0.04	0.1	<0.01	7.5	<0.1	<0.05	7	<0.5	<0.2
1192351	Soil	5	36	0.75	282	0.101	1	1.78	0.016	0.07	<0.1	0.01	5.8	0.1	<0.05	6	0.5	<0.2
1192352	Soil	12	17	1.28	205	0.088	2	1.97	0.015	0.25	0.1	0.03	9.8	<0.1	<0.05	8	<0.5	<0.2
1192353	Soil	9	17	1.10	185	0.052	1	2.24	0.019	0.13	<0.1	0.02	10.3	<0.1	<0.05	8	0.6	<0.2
1192354	Soil	4	6	1.58	155	0.191	1	2.17	0.026	0.19	0.2	0.04	9.5	<0.1	<0.05	11	0.6	<0.2
1192356	Soil	14	37	0.57	224	0.066	<1	1.60	0.015	0.07	0.1	0.06	5.1	<0.1	<0.05	5	<0.5	<0.2
1192357	Soil	22	40	3.43	93	0.058	2	1.57	0.008	0.29	0.4	0.03	3.5	0.2	0.09	5	0.9	<0.2
1192358	Soil	9	21	1.54	302	0.084	4	1.33	0.027	0.24	0.1	0.03	3.2	0.1	0.09	4	<0.5	<0.2
1192359	Soil	7	37	2.10	565	0.247	3	2.52	0.037	0.96	0.1	0.02	5.2	0.2	0.10	8	<0.5	<0.2
1192360	Soil	7	16	1.29	280	0.276	1	2.08	0.032	0.74	0.1	<0.01	4.1	0.2	<0.05	9	<0.5	<0.2
1192361	Soil	16	39	3.03	349	0.139	2	2.15	0.018	0.85	<0.1	<0.01	2.4	0.4	0.10	8	<0.5	<0.2
1192362	Soil	6	150	2.58	489	0.313	3	3.94	0.031	1.77	<0.1	<0.01	5.4	0.4	<0.05	11	<0.5	<0.2
1192363	Soil	38	229	1.96	799	0.302	1	3.94	0.016	1.64	<0.1	0.01	9.9	0.7	0.12	13	1.4	<0.2
1192364	Soil	39	89	2.17	369	0.261	2	2.91	0.018	1.18	<0.1	0.02	6.2	0.4	<0.05	12	<0.5	<0.2
1192365	Soil	16	18	2.09	140	0.358	1	3.49	0.013	1.02	<0.1	<0.01	3.7	0.5	<0.05	11	<0.5	<0.2
1192366	Soil	6	10	1.01	213	0.146	2	2.11	0.050	0.39	<0.1	0.01	9.0	0.1	<0.05	10	<0.5	<0.2
1192367	Soil	27	36	0.56	206	0.090	1	1.58	0.016	0.09	0.2	0.04	5.4	<0.1	<0.05	6	<0.5	<0.2
1192368	Soil	23	15	0.69	294	0.102	<1	1.97	0.013	0.40	<0.1	0.02	8.3	0.1	<0.05	12	<0.5	<0.2
1192369	Soil	24	32	0.56	242	0.098	2	1.76	0.028	0.09	0.2	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
1192370	Soil	12	32	0.57	316	0.067	3	1.68	0.026	0.08	0.1	0.06	4.4	<0.1	0.07	5	<0.5	<0.2
1192375	Soil	10	25	0.53	296	0.072	2	1.32	0.028	0.06	0.2	0.05	3.8	<0.1	0.06	4	0.5	<0.2
1192376	Soil	10	24	0.50	292	0.064	3	1.24	0.027	0.06	0.1	0.04	3.4	<0.1	0.09	4	<0.5	<0.2
1192496	Soil	8	13	0.18	86	0.083	<1	0.91	0.024	0.04	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1192497	Soil	0.5	12.1	6.7	14	<0.1	4.7	3.3	105	1.30	2.3	0.4	2.4	0.4	22	<0.1	0.2	0.1	43	0.21	0.025
1192498	Soil	1.1	165.1	11.9	1693	0.1	21.5	24.7	1212	10.25	3.4	0.4	1.2	1.3	22	3.1	0.2	<0.1	381	0.29	0.018
1192499	Soil	0.9	15.7	6.9	29	0.2	15.9	7.3	134	2.16	6.1	0.4	1.5	0.8	16	0.1	0.4	0.1	52	0.19	0.037
1193501	Soil	2.7	50.3	97.8	187	0.1	13.0	14.7	931	4.68	6.2	1.5	5.2	12.2	20	0.3	0.9	1.1	81	0.29	0.056
1193502	Soil	1.4	30.6	11.0	89	<0.1	13.7	16.4	620	4.82	6.5	0.9	<0.5	7.8	33	<0.1	0.7	0.2	94	0.42	0.043
1193503	Soil	1.1	18.9	9.4	51	0.1	19.8	9.2	489	2.76	9.9	0.6	1.8	3.4	23	0.1	0.6	0.2	68	0.27	0.031
1192342	Soil	0.8	25.8	10.0	87	<0.1	15.3	15.8	636	4.23	6.8	0.8	1.5	8.4	27	<0.1	0.5	<0.1	81	0.28	0.024
1192343	Soil	1.0	15.4	8.1	53	<0.1	17.2	10.0	337	2.89	7.0	0.7	5.3	6.2	28	<0.1	0.6	0.1	54	0.29	0.023
1192346	Soil	0.7	16.5	8.9	80	<0.1	16.2	12.4	675	3.77	6.1	1.1	1.3	17.2	41	<0.1	0.4	<0.1	60	0.32	0.022
1193583	Soil	2.0	35.5	9.8	139	<0.1	19.6	10.3	1396	6.56	13.4	1.3	3.1	5.2	18	<0.1	4.2	0.2	58	0.24	0.023
1193584	Soil	1.2	34.6	19.1	211	0.1	29.1	13.5	872	3.15	11.0	0.8	1.3	5.0	23	0.4	0.5	0.3	59	0.28	0.040
1193585	Soil	1.0	70.9	9.2	109	0.1	13.5	17.6	482	4.18	10.8	0.3	2.4	1.3	17	0.2	0.4	0.1	135	0.32	0.041
1193586	Soil	1.9	11.3	35.5	47	<0.1	6.3	8.6	487	3.33	25.0	1.8	3.1	9.7	11	<0.1	0.8	0.3	21	0.08	0.014
1193587	Soil	0.7	37.1	68.4	82	<0.1	12.4	10.8	563	3.65	6.2	0.7	0.8	15.3	13	0.2	0.6	0.5	57	0.13	0.021
1193588	Soil	1.0	20.9	12.2	56	<0.1	21.4	9.4	330	3.03	11.1	0.5	3.7	5.1	17	0.1	0.7	0.2	63	0.16	0.021
1193589	Soil	1.1	20.0	7.3	65	<0.1	16.7	9.9	1019	2.75	7.2	0.4	2.4	3.4	19	0.1	0.5	0.2	62	0.22	0.046
1193590	Soil	0.5	23.7	4.1	79	<0.1	9.8	19.5	955	5.35	4.5	0.8	2.0	9.5	18	<0.1	0.2	<0.1	139	0.24	0.042
1193591	Soil	1.3	45.7	6.6	73	<0.1	19.7	15.4	511	3.82	8.3	0.5	1.2	5.4	23	<0.1	0.4	0.1	88	0.24	0.027
1193592	Soil	0.4	19.9	6.3	110	<0.1	12.7	19.3	771	4.89	5.3	0.8	2.3	7.3	67	<0.1	0.3	<0.1	123	0.53	0.031
1193593	Soil	1.1	33.6	9.0	57	<0.1	17.1	10.6	400	3.14	8.9	0.9	5.4	13.2	16	<0.1	0.6	0.2	57	0.16	0.023
1193594	Soil	0.6	17.2	9.2	74	<0.1	13.4	11.3	471	3.66	7.7	1.0	0.8	18.2	18	<0.1	0.4	<0.1	58	0.18	0.027
1193595	Soil	0.5	21.9	5.5	71	<0.1	17.1	12.3	565	3.42	8.0	0.9	6.9	7.2	30	<0.1	0.6	<0.1	63	0.36	0.052
1193596	Soil	0.7	24.3	6.6	67	<0.1	19.9	12.0	488	3.25	9.5	0.9	5.0	6.4	29	<0.1	0.7	0.1	66	0.31	0.044
1193601	Soil	1.4	31.6	12.6	70	<0.1	8.0	8.9	454	3.43	8.4	1.7	2.1	18.6	14	<0.1	0.9	0.1	35	0.14	0.038
1193609	Soil	0.7	13.5	5.0	72	<0.1	17.1	21.5	597	4.77	6.2	0.9	1.9	9.8	30	<0.1	0.3	<0.1	107	0.27	0.042
1193610	Soil	1.0	20.8	9.1	57	<0.1	23.7	13.2	309	3.53	10.1	0.5	1.9	3.9	13	<0.1	0.6	0.1	79	0.13	0.021
1193611	Soil	0.6	15.4	5.7	79	<0.1	12.9	20.6	692	4.92	5.3	1.1	2.0	9.1	20	<0.1	0.6	<0.1	115	0.23	0.035
1193612	Soil	1.3	52.5	4.4	73	<0.1	12.9	17.0	680	3.93	4.6	0.7	<0.5	9.1	25	<0.1	0.3	<0.1	87	0.31	0.036
1193613	Soil	0.7	16.0	6.5	75	<0.1	14.6	14.0	586	3.82	6.8	0.7	0.8	5.0	20	<0.1	0.4	0.1	96	0.25	0.044
1193614	Soil	1.2	14.0	7.8	55	<0.1	11.9	8.8	391	3.51	9.0	0.5	3.2	2.6	12	<0.1	0.5	0.1	52	0.14	0.022

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1192497	Soil	8	13	0.18	134	0.067	<1	0.87	0.017	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
1192498	Soil	16	29	3.64	217	0.438	<1	4.41	0.014	0.53	0.1	0.02	19.7	0.2	<0.05	21	0.5	<0.2
1192499	Soil	8	24	0.33	157	0.069	<1	1.21	0.019	0.06	0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
1193501	Soil	18	21	0.90	212	0.050	2	2.02	0.009	0.24	0.1	0.03	5.8	<0.1	<0.05	7	<0.5	<0.2
1193502	Soil	13	22	1.19	230	0.110	1	2.65	0.011	0.46	0.2	<0.01	4.8	0.2	<0.05	8	<0.5	<0.2
1193503	Soil	11	34	0.49	286	0.076	<1	1.73	0.014	0.06	0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
1192342	Soil	28	25	1.11	237	0.162	<1	2.43	0.012	0.63	<0.1	0.02	4.6	0.3	<0.05	7	<0.5	<0.2
1192343	Soil	16	28	0.47	358	0.059	<1	1.61	0.016	0.13	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1192346	Soil	23	27	0.70	240	0.120	<1	2.36	0.012	0.26	<0.1	0.01	3.2	0.2	<0.05	8	<0.5	<0.2
1193583	Soil	19	30	0.38	338	0.037	3	1.44	0.009	0.15	0.1	0.34	12.7	<0.1	<0.05	5	0.9	<0.2
1193584	Soil	16	35	0.84	387	0.121	<1	1.86	0.011	0.31	<0.1	0.01	3.7	0.2	<0.05	7	<0.5	<0.2
1193585	Soil	4	29	0.95	284	0.125	1	2.17	0.028	0.20	<0.1	0.01	5.2	<0.1	<0.05	7	<0.5	<0.2
1193586	Soil	9	11	0.16	315	0.003	2	0.90	0.004	0.09	<0.1	0.03	2.5	<0.1	<0.05	2	<0.5	<0.2
1193587	Soil	16	17	0.72	173	0.054	<1	2.05	0.006	0.15	<0.1	0.02	3.8	0.2	<0.05	7	<0.5	<0.2
1193588	Soil	7	36	0.48	265	0.070	<1	1.89	0.008	0.09	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
1193589	Soil	10	25	0.58	239	0.086	1	1.42	0.015	0.14	0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
1193590	Soil	9	20	1.58	211	0.172	1	2.65	0.010	0.48	<0.1	0.03	7.0	<0.1	<0.05	10	<0.5	<0.2
1193591	Soil	19	31	1.02	247	0.147	1	2.39	0.012	0.30	<0.1	0.02	2.6	0.1	<0.05	6	0.5	<0.2
1193592	Soil	28	20	1.54	187	0.289	1	2.85	0.014	0.26	<0.1	0.01	3.6	0.1	<0.05	9	<0.5	<0.2
1193593	Soil	11	28	0.48	216	0.051	1	1.73	0.009	0.10	0.1	0.03	3.1	<0.1	<0.05	5	0.6	<0.2
1193594	Soil	19	20	0.67	145	0.121	<1	2.47	0.011	0.37	<0.1	0.02	2.7	0.2	<0.05	7	0.7	<0.2
1193595	Soil	21	24	0.75	203	0.165	<1	1.84	0.014	0.35	0.1	0.02	4.2	0.2	<0.05	6	0.7	<0.2
1193596	Soil	20	29	0.70	203	0.139	1	1.87	0.016	0.23	<0.1	0.04	4.5	0.1	<0.05	5	<0.5	<0.2
1193601	Soil	27	14	0.25	121	0.025	<1	1.11	0.007	0.20	0.2	0.04	3.2	0.2	<0.05	3	0.6	<0.2
1193609	Soil	9	25	1.39	281	0.226	1	3.04	0.014	0.54	0.1	0.02	3.2	0.2	<0.05	8	<0.5	<0.2
1193610	Soil	7	35	0.58	196	0.079	1	2.43	0.010	0.08	<0.1	<0.01	3.1	<0.1	<0.05	6	0.5	<0.2
1193611	Soil	16	23	1.34	245	0.145	<1	2.56	0.009	0.75	<0.1	0.01	4.1	0.2	<0.05	8	0.6	<0.2
1193612	Soil	21	20	1.29	187	0.155	1	2.34	0.009	0.56	<0.1	0.02	3.1	0.2	<0.05	7	<0.5	<0.2
1193613	Soil	7	24	1.08	262	0.144	1	2.43	0.012	0.74	<0.1	0.01	3.5	0.3	<0.05	7	<0.5	<0.2
1193614	Soil	8	22	0.35	260	0.037	2	1.57	0.009	0.10	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2

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			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	
1193615	Soil		1.1	12.9	9.4	55	<0.1	17.8	12.6	960	2.74	6.7	0.4	<0.5	2.9	20	<0.1	0.4	0.2	68	0.19	0.032
1193616	Soil		0.9	24.7	9.7	53	<0.1	23.1	10.5	259	3.05	9.4	0.9	1.9	6.1	20	<0.1	0.6	0.2	76	0.17	0.014
1193617	Soil		0.7	18.2	9.7	39	<0.1	18.7	7.8	236	2.46	7.4	0.8	4.0	4.1	21	<0.1	0.4	0.1	62	0.24	0.015
1193618	Soil		1.1	17.3	13.3	68	0.2	21.9	9.9	433	3.08	10.6	0.6	0.7	5.8	19	0.2	0.6	0.2	67	0.21	0.028
1193620	Soil		0.8	19.6	29.9	54	<0.1	18.5	10.8	304	3.08	8.7	0.7	1.2	5.7	15	0.1	0.5	0.4	64	0.15	0.018
1193621	Soil		0.6	25.7	15.4	58	<0.1	18.4	9.4	273	2.92	6.8	1.0	3.0	10.9	20	<0.1	0.5	0.2	61	0.20	0.012
1193624	Soil		0.5	16.6	24.5	62	<0.1	11.4	7.9	305	3.56	101.0	1.4	2.3	19.6	21	0.1	1.5	0.4	49	0.21	0.014
1193538	Soil		0.7	16.7	8.4	59	<0.1	14.8	9.8	385	3.26	7.4	1.2	3.1	8.1	15	<0.1	0.6	0.1	56	0.15	0.021



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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002508.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1193615	Soil	8	30	0.45	255	0.066	<1	1.64	0.011	0.07	0.2	0.01	2.5	<0.1	<0.05	6	0.6	<0.2
1193616	Soil	16	42	0.55	337	0.072	<1	2.10	0.013	0.04	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1193617	Soil	16	29	0.48	339	0.065	<1	1.64	0.017	0.05	<0.1	0.01	3.9	<0.1	<0.05	5	0.7	<0.2
1193618	Soil	10	35	0.51	232	0.077	<1	1.77	0.013	0.14	<0.1	0.02	3.3	0.1	<0.05	5	<0.5	<0.2
1193620	Soil	9	27	0.55	224	0.061	<1	2.09	0.009	0.09	<0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
1193621	Soil	26	33	0.50	251	0.084	<1	2.07	0.011	0.09	<0.1	0.04	4.9	<0.1	<0.05	6	0.5	<0.2
1193624	Soil	44	20	0.54	486	0.018	<1	1.87	0.013	0.15	<0.1	0.04	5.3	<0.1	<0.05	6	<0.5	<0.2
1193538	Soil	35	28	0.68	196	0.065	<1	2.10	0.009	0.15	0.1	0.02	3.8	0.1	<0.05	7	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11002508.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1197584	Soil	0.7	64.2	4.5	116	<0.1	31.3	24.3	826	7.40	2.4	1.2	1.5	3.8	51	<0.1	<0.1	<0.1	198	0.69	0.122
REP 1197584	QC	0.7	69.3	4.4	118	<0.1	32.7	25.0	860	8.00	2.4	1.2	1.8	3.8	54	<0.1	0.1	<0.1	213	0.70	0.129
1197636	Soil	0.5	23.3	17.6	94	<0.1	17.3	7.5	445	3.66	9.0	1.0	2.1	4.9	23	<0.1	0.5	0.2	53	0.19	0.021
REP 1197636	QC	0.5	23.0	18.2	92	<0.1	17.0	6.7	441	3.72	8.3	1.0	1.9	5.1	23	<0.1	0.4	0.2	54	0.19	0.023
1197648	Soil	4.0	169.9	24.9	196	0.3	43.1	34.0	794	4.67	10.8	8.6	1.5	4.4	170	0.4	0.3	0.4	286	0.72	0.266
REP 1197648	QC	4.1	174.0	26.0	204	0.2	42.3	34.6	814	4.70	11.1	8.5	<0.5	4.4	162	0.5	0.2	0.4	289	0.72	0.260
1197958	Soil	0.9	15.8	9.7	58	<0.1	21.8	11.8	459	2.77	10.1	0.5	2.3	4.0	33	0.1	0.7	0.2	62	0.61	0.027
REP 1197958	QC	0.9	16.1	10.3	59	<0.1	23.0	11.5	470	2.87	11.2	0.6	1.1	4.2	34	<0.1	0.6	0.2	64	0.63	0.028
1197973	Soil	1.2	32.3	9.3	53	<0.1	28.7	12.6	468	3.00	9.3	1.0	4.3	6.2	38	<0.1	0.7	0.1	64	0.49	0.025
REP 1197973	QC	1.1	32.4	9.2	52	<0.1	28.9	12.2	474	2.99	9.0	0.9	6.7	6.2	38	<0.1	0.7	0.1	65	0.50	0.024
1197986	Soil	0.4	31.9	3.8	51	<0.1	25.6	22.5	398	3.24	3.3	1.2	1.6	2.2	243	<0.1	0.4	<0.1	84	5.59	0.071
REP 1197986	QC	0.5	31.3	3.7	52	<0.1	25.8	22.7	397	3.30	3.3	1.1	2.3	2.2	244	<0.1	0.4	<0.1	84	5.53	0.071
1197315	Soil	0.6	70.4	16.2	86	<0.1	17.5	15.5	742	4.45	6.1	0.8	3.8	3.1	52	<0.1	0.9	0.1	93	0.64	0.058
REP 1197315	QC	0.6	72.8	16.8	88	<0.1	19.2	16.2	815	4.74	6.5	0.8	2.6	3.0	55	0.1	1.0	0.1	98	0.68	0.057
1196952	Soil	0.8	33.3	6.9	46	<0.1	19.8	16.1	560	4.23	6.6	0.5	1.5	3.1	79	0.1	0.4	0.1	99	0.69	0.099
REP 1196952	QC	0.8	33.8	7.3	47	<0.1	20.1	16.4	563	4.31	6.9	0.5	3.3	3.2	78	0.1	0.4	<0.1	100	0.72	0.102
1196970	Soil	1.3	11.9	8.1	58	0.1	15.6	9.9	526	3.54	11.4	0.3	2.3	2.4	15	<0.1	0.6	0.2	66	0.16	0.026
REP 1196970	QC	1.2	11.9	8.0	60	0.1	13.8	10.8	536	3.64	11.0	0.3	5.3	2.4	15	<0.1	0.5	0.2	68	0.16	0.026
1197307	Soil	0.9	27.5	9.5	51	0.1	24.2	9.9	528	2.33	7.8	0.5	1.6	2.8	82	0.2	0.7	0.2	50	2.30	0.039
REP 1197307	QC	0.9	30.2	9.8	52	0.1	25.6	10.2	543	2.41	8.3	0.5	5.7	2.8	84	0.2	0.7	0.2	50	2.32	0.041
1197343	Soil	1.4	25.4	76.5	54	0.3	22.3	10.7	541	2.68	8.3	0.5	8.9	4.0	44	0.1	0.5	0.8	60	0.93	0.039
REP 1197343	QC	1.3	25.7	75.1	53	0.3	22.8	10.6	540	2.69	8.1	0.5	8.4	4.0	44	0.2	0.5	0.8	60	0.90	0.036
1192452	Soil	0.7	26.5	39.9	120	<0.1	19.5	8.1	519	3.15	7.6	1.6	3.4	10.3	23	0.2	0.5	0.3	47	0.28	0.037
REP 1192452	QC	0.7	26.6	40.6	118	0.1	20.0	8.5	529	3.25	8.2	1.6	20.5	10.3	24	0.2	0.5	0.3	48	0.30	0.036
1192474	Soil	0.8	18.6	7.7	58	<0.1	18.5	11.7	462	3.24	7.5	0.5	1.1	3.4	20	<0.1	0.4	0.1	86	0.23	0.060
REP 1192474	QC	0.8	18.6	7.6	58	<0.1	19.0	11.8	465	3.28	7.3	0.5	1.3	3.3	21	<0.1	0.4	0.1	86	0.24	0.059
1192297	Soil	0.8	25.4	8.4	79	<0.1	17.4	12.1	529	4.02	11.9	0.3	2.6	2.4	30	0.1	0.3	0.2	89	0.72	0.237
REP 1192297	QC	0.7	25.3	8.4	84	<0.1	18.0	12.1	560	4.19	12.5	0.3	<0.5	2.4	30	<0.1	0.3	0.1	94	0.75	0.251

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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

VAN11002508.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1197584	Soil	15	91	3.63	1548	0.279	<1	4.12	0.023	1.25	<0.1	0.02	14.1	0.5	<0.05	16	0.6	<0.2
REP 1197584	QC	16	97	4.05	1544	0.300	1	4.59	0.025	1.31	<0.1	0.02	15.4	0.5	<0.05	17	0.5	<0.2
1197636	Soil	16	29	0.53	179	0.157	1	1.92	0.017	0.42	<0.1	<0.01	7.1	0.2	<0.05	7	0.6	<0.2
REP 1197636	QC	16	29	0.52	172	0.167	1	1.92	0.013	0.46	<0.1	0.01	7.7	0.2	<0.05	7	<0.5	<0.2
1197648	Soil	20	32	1.53	829	0.108	<1	3.23	0.010	0.82	<0.1	<0.01	9.7	0.5	<0.05	9	3.6	<0.2
REP 1197648	QC	20	31	1.54	845	0.106	<1	3.20	0.010	0.82	0.1	<0.01	9.6	0.5	<0.05	10	2.9	0.3
1197958	Soil	12	35	0.50	350	0.069	<1	1.58	0.019	0.06	0.2	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
REP 1197958	QC	12	36	0.51	362	0.073	1	1.67	0.029	0.06	0.2	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
1197973	Soil	18	28	0.58	271	0.076	<1	1.59	0.018	0.09	<0.1	0.05	5.9	<0.1	<0.05	5	<0.5	<0.2
REP 1197973	QC	18	27	0.59	265	0.077	<1	1.59	0.018	0.09	<0.1	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2
1197986	Soil	5	63	1.78	185	0.183	<1	1.88	0.040	0.10	<0.1	0.04	4.8	<0.1	<0.05	8	<0.5	<0.2
REP 1197986	QC	6	63	1.79	186	0.185	<1	1.88	0.041	0.10	<0.1	0.03	4.8	<0.1	<0.05	8	<0.5	<0.2
1197315	Soil	14	18	0.93	306	0.051	<1	2.29	0.015	0.25	<0.1	0.03	10.5	<0.1	<0.05	8	<0.5	<0.2
REP 1197315	QC	15	19	0.95	301	0.059	2	2.45	0.016	0.27	<0.1	0.03	11.5	<0.1	<0.05	9	<0.5	<0.2
1196952	Soil	9	37	0.82	144	0.142	1	2.35	0.048	0.09	0.1	0.02	5.3	<0.1	<0.05	9	<0.5	<0.2
REP 1196952	QC	9	38	0.83	150	0.144	<1	2.46	0.050	0.09	0.1	0.02	5.4	<0.1	<0.05	9	<0.5	<0.2
1196970	Soil	8	27	0.60	162	0.082	<1	1.82	0.009	0.07	0.1	0.03	4.1	<0.1	<0.05	8	0.8	<0.2
REP 1196970	QC	9	28	0.62	154	0.082	<1	1.85	0.009	0.07	<0.1	0.03	4.1	<0.1	<0.05	8	<0.5	<0.2
1197307	Soil	11	26	0.47	450	0.052	3	1.38	0.019	0.05	0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
REP 1197307	QC	11	28	0.48	468	0.050	2	1.44	0.021	0.05	0.1	0.03	4.1	<0.1	<0.05	4	0.5	<0.2
1197343	Soil	17	29	0.56	389	0.064	1	1.42	0.020	0.11	0.2	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
REP 1197343	QC	17	28	0.56	385	0.061	2	1.42	0.019	0.11	0.2	0.02	4.7	<0.1	<0.05	5	0.9	<0.2
1192452	Soil	36	26	0.46	228	0.110	1	1.40	0.013	0.33	0.2	0.05	7.5	0.2	<0.05	6	<0.5	<0.2
REP 1192452	QC	36	26	0.48	228	0.114	2	1.46	0.014	0.33	0.2	0.03	7.3	0.2	<0.05	6	<0.5	<0.2
1192474	Soil	9	31	0.54	162	0.090	1	1.89	0.016	0.09	<0.1	<0.01	4.1	<0.1	<0.05	6	<0.5	<0.2
REP 1192474	QC	9	31	0.54	162	0.091	<1	1.90	0.014	0.09	0.1	0.01	4.3	<0.1	<0.05	7	<0.5	<0.2
1192297	Soil	7	25	0.61	205	0.066	<1	1.72	0.021	0.08	<0.1	0.02	7.0	0.1	<0.05	8	<0.5	<0.2
REP 1192297	QC	8	26	0.64	212	0.070	<1	1.82	0.022	0.09	0.1	0.01	7.1	<0.1	<0.05	8	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

VAN11002508.2

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
1192370	Soil	0.8	29.1	10.0	68	0.1	21.5	9.3	451	2.61	7.5	0.8	2.5	2.3	64	0.4	0.7	0.2	51	1.16	0.068
REP 1192370	QC	0.7	28.9	9.7	67	0.1	21.6	9.3	467	2.71	7.5	0.8	2.4	2.3	64	0.2	0.7	0.2	52	1.15	0.070
1193588	Soil	1.0	20.9	12.2	56	<0.1	21.4	9.4	330	3.03	11.1	0.5	3.7	5.1	17	0.1	0.7	0.2	63	0.16	0.021
REP 1193588	QC	0.9	21.8	12.5	58	<0.1	21.9	9.2	323	3.07	11.5	0.4	7.9	5.2	17	0.1	0.6	0.2	63	0.15	0.021
1193616	Soil	0.9	24.7	9.7	53	<0.1	23.1	10.5	259	3.05	9.4	0.9	1.9	6.1	20	<0.1	0.6	0.2	76	0.17	0.014
REP 1193616	QC	0.9	24.4	9.6	56	<0.1	24.2	10.4	263	3.10	10.0	0.9	7.5	5.9	20	<0.1	0.6	0.2	74	0.19	0.014
Reference Materials																					
STD DS8	Standard	12.9	110.5	126.7	304	1.9	38.6	7.6	594	2.38	24.9	2.7	104.9	6.5	68	2.3	5.3	6.9	42	0.64	0.076
STD DS8	Standard	13.2	106.8	121.9	303	1.7	37.2	7.3	576	2.28	24.6	2.6	104.0	6.6	66	2.6	5.9	6.7	41	0.63	0.075
STD DS8	Standard	12.7	113.2	119.1	334	1.8	40.8	7.7	627	2.56	28.5	2.7	121.2	6.4	72	2.6	6.2	6.8	43	0.73	0.084
STD DS8	Standard	13.4	113.4	123.3	331	2.0	39.7	7.6	637	2.55	28.2	2.7	137.7	6.6	73	2.6	6.0	6.8	43	0.72	0.085
STD DS8	Standard	12.1	107.9	123.7	311	1.7	37.3	7.6	593	2.37	24.8	2.7	103.8	6.6	63	2.3	5.8	6.8	41	0.63	0.079
STD DS8	Standard	13.7	114.2	127.7	314	1.9	40.3	8.0	618	2.48	25.9	2.8	115.2	7.0	68	2.3	5.9	7.0	43	0.68	0.076
STD DS8	Standard	13.2	107.8	121.8	297	1.6	36.3	7.6	585	2.34	23.8	2.7	98.0	6.8	65	2.4	5.7	6.8	40	0.65	0.072
STD DS8	Standard	12.8	103.6	120.5	300	1.7	35.6	7.1	565	2.24	23.7	2.5	112.6	6.2	63	2.3	5.5	6.5	39	0.61	0.073
STD DS8	Standard	13.7	116.1	133.9	330	1.9	40.3	8.0	610	2.46	26.0	2.8	109.0	6.8	67	2.2	6.2	7.2	44	0.68	0.080
STD DS8	Standard	13.5	116.0	132.8	320	2.0	38.4	7.9	628	2.46	26.7	2.9	122.5	7.0	67	2.4	6.0	7.3	44	0.67	0.079
STD DS8	Standard	14.0	119.4	131.2	340	1.9	40.5	8.2	653	2.59	28.7	3.0	114.6	7.1	75	2.6	6.6	7.3	43	0.74	0.088
STD DS8	Standard	13.7	118.7	127.5	339	1.9	37.8	7.9	652	2.61	29.1	2.9	126.6	7.0	74	2.5	6.7	7.1	45	0.72	0.080
STD DS8	Standard	13.2	108.4	132.4	321	1.8	39.2	7.5	652	2.55	26.8	2.9	103.9	7.2	74	2.2	5.7	6.9	40	0.70	0.087
STD DS8	Standard	13.3	105.1	133.7	325	1.9	40.5	7.7	678	2.68	27.1	2.8	107.9	7.1	73	2.4	5.9	7.0	41	0.72	0.082
STD DS8	Standard	15.4	126.3	135.4	344	1.9	42.5	8.4	676	2.68	29.7	3.1	131.5	7.5	82	2.6	6.8	6.8	46	0.77	0.083
STD DS8	Standard	11.2	110.8	119.2	308	1.5	39.5	7.5	588	2.38	24.5	2.6	108.8	6.3	58	2.0	5.3	6.2	39	0.64	0.081
STD DS8	Standard	13.9	122.6	116.0	334	1.7	42.4	8.5	652	2.57	28.3	2.6	107.8	6.5	67	2.1	5.4	6.3	46	0.71	0.084
STD DS8	Standard	14.1	118.4	124.1	331	1.8	40.2	7.5	618	2.45	25.2	2.8	108.9	6.9	67	2.3	5.6	6.3	46	0.67	0.078
STD DS8	Standard	13.7	123.0	121.2	333	1.8	42.5	8.5	616	2.47	26.7	2.8	114.0	7.0	65	2.5	5.7	6.4	46	0.63	0.076
STD DS8	Standard	12.3	118.8	127.6	346	1.9	38.3	8.7	643	2.60	28.7	2.5	109.9	6.7	64	2.6	5.7	7.1	43	0.72	0.089
STD DS8	Standard	12.1	119.5	133.5	356	2.0	39.5	8.9	661	2.67	29.4	2.6	113.5	6.7	65	2.7	5.7	7.2	44	0.69	0.090
STD DS8	Standard	11.7	106.6	122.3	291	1.7	36.8	6.9	556	2.26	23.9	2.5	108.9	6.2	54	2.0	4.6	6.1	39	0.62	0.075



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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

VAN11002508.2

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
1192370	Soil	12	32	0.57	316	0.067	3	1.68	0.026	0.08	0.1	0.06	4.4	<0.1	0.07	5	<0.5	<0.2
REP 1192370	QC	12	32	0.58	329	0.069	3	1.68	0.026	0.08	0.1	0.06	4.3	<0.1	0.08	5	<0.5	<0.2
1193588	Soil	7	36	0.48	265	0.070	<1	1.89	0.008	0.09	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
REP 1193588	QC	7	35	0.47	269	0.069	1	1.85	0.008	0.09	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
1193616	Soil	16	42	0.55	337	0.072	<1	2.10	0.013	0.04	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
REP 1193616	QC	16	41	0.56	344	0.084	<1	2.11	0.012	0.05	0.1	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	116	0.52	274	0.114	2	0.89	0.088	0.40	3.0	0.17	2.2	5.2	0.11	4	5.2	5.1
STD DS8	Standard	14	113	0.52	269	0.114	1	0.88	0.088	0.40	2.7	0.22	2.3	5.1	0.09	5	4.5	4.1
STD DS8	Standard	15	121	0.63	291	0.115	<1	0.93	0.087	0.45	2.8	0.21	2.3	5.6	0.11	5	5.7	5.1
STD DS8	Standard	14	120	0.64	289	0.116	2	0.93	0.088	0.43	3.0	0.21	2.5	5.9	0.08	5	6.4	5.4
STD DS8	Standard	13	115	0.54	276	0.109	2	0.87	0.078	0.41	3.1	0.18	2.0	5.0	0.13	5	4.7	5.8
STD DS8	Standard	15	124	0.55	281	0.116	3	0.89	0.086	0.41	3.1	0.18	2.1	5.5	0.15	5	5.7	5.0
STD DS8	Standard	13	114	0.53	266	0.111	3	0.88	0.091	0.41	2.8	0.18	2.3	5.2	0.15	4	5.6	4.3
STD DS8	Standard	13	111	0.52	269	0.109	3	0.84	0.086	0.39	2.7	0.19	2.2	5.1	0.15	4	5.3	4.9
STD DS8	Standard	14	122	0.56	275	0.118	2	0.91	0.085	0.42	3.1	0.17	2.3	5.8	0.17	5	5.4	5.2
STD DS8	Standard	14	124	0.56	268	0.119	3	0.91	0.085	0.43	3.1	0.21	2.2	5.7	0.17	5	6.9	5.2
STD DS8	Standard	16	119	0.63	294	0.127	4	0.97	0.095	0.45	3.1	0.23	2.5	5.9	0.17	5	6.0	5.7
STD DS8	Standard	16	120	0.62	304	0.125	2	0.91	0.095	0.45	2.9	0.20	2.4	5.7	0.14	5	5.8	5.5
STD DS8	Standard	15	117	0.64	280	0.125	3	0.95	0.101	0.44	3.2	0.20	2.0	5.8	0.14	5	5.1	5.4
STD DS8	Standard	15	126	0.62	268	0.127	3	0.98	0.099	0.44	3.0	0.19	2.2	5.7	0.16	5	5.1	5.2
STD DS8	Standard	17	130	0.65	314	0.138	3	0.97	0.104	0.46	3.3	0.20	2.3	5.6	0.18	5	5.9	5.3
STD DS8	Standard	12	110	0.58	245	0.104	3	0.83	0.083	0.39	2.5	0.20	2.1	5.3	0.10	4	5.0	4.9
STD DS8	Standard	14	122	0.60	284	0.122	3	0.92	0.092	0.43	2.9	0.18	2.5	5.3	0.08	5	5.6	4.5
STD DS8	Standard	15	123	0.63	279	0.133	2	0.96	0.090	0.42	3.1	0.21	2.6	5.5	0.17	5	5.5	4.4
STD DS8	Standard	15	124	0.62	277	0.127	2	0.93	0.085	0.42	3.2	0.18	2.3	5.5	0.16	5	5.3	5.2
STD DS8	Standard	13	119	0.64	272	0.109	2	0.92	0.082	0.44	3.3	0.21	2.0	5.6	0.17	5	5.3	5.1
STD DS8	Standard	12	119	0.66	278	0.111	3	0.91	0.086	0.45	3.1	0.22	2.0	5.8	0.15	5	5.7	5.7
STD DS8	Standard	11	110	0.56	242	0.098	2	0.80	0.071	0.36	2.6	0.18	1.6	4.9	0.11	4	4.5	4.7



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Project: HEN

Report Date: July 19, 2011

Page: 3 of 3 Part 1

# QUALITY CONTROL REPORT

VAN11002508.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8	Standard	12.6	106.7	118.1	296	1.6	37.5	7.2	561	2.25	24.5	2.4	100.7	6.0	55	2.0	4.9	5.9	39	0.59	0.074
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.03	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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**Project:** HEN

**Report Date:** July 19, 2011

**Page:** 3 of 3 **Part** 2

QUALITY CONTROL REPORT

VAN11002508.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	11	112	0.55	244	0.097	2	0.80	0.072	0.37	2.7	0.18	1.7	5.0	0.12	4	5.8	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 13, 2011
Report Date: July 19, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN11002663.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID:
P.O. Number
Number of Samples: 137

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

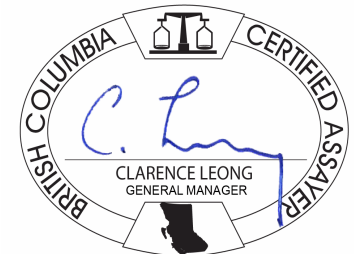
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains 3 rows of sample preparation data.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

VAN11002663.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1193542	Soil	0.4	103.7	2.9	52	<0.1	22.6	26.4	461	3.82	2.5	0.4	1.6	3.1	17	<0.1	0.2	<0.1	116	0.31	0.037
1193546	Soil	1.4	20.0	11.3	54	<0.1	18.9	10.0	261	3.01	10.1	0.7	2.3	7.6	13	<0.1	0.6	0.2	60	0.13	0.027
1193549	Soil	3.3	12.6	10.9	54	<0.1	9.6	8.0	343	3.04	6.0	0.9	1.2	5.6	12	<0.1	0.4	<0.1	44	0.32	0.036
1193550	Soil	0.6	16.6	9.4	52	<0.1	14.6	9.3	639	2.83	5.1	1.2	1.9	9.5	12	<0.1	0.4	0.1	45	0.22	0.033
1193551	Soil	1.2	20.4	12.3	60	<0.1	18.0	9.9	344	3.03	8.8	0.6	3.7	4.7	19	<0.1	0.5	0.2	67	0.21	0.030
1193553	Soil	1.2	29.2	9.8	65	<0.1	15.3	19.0	722	4.04	6.6	1.0	1.0	6.7	13	<0.1	0.5	0.1	82	0.19	0.025
1193554	Soil	0.4	28.0	2.9	66	<0.1	20.3	23.0	986	4.80	1.6	0.3	0.5	4.4	33	<0.1	0.3	<0.1	78	2.82	0.134
1193555	Soil	0.3	27.7	2.2	65	<0.1	19.2	22.2	919	4.61	1.2	0.3	<0.5	4.2	28	<0.1	0.2	<0.1	74	2.85	0.128
1193556	Soil	0.8	87.0	4.6	79	0.2	138.8	45.9	1207	7.10	4.0	1.0	3.5	2.1	42	0.1	3.0	<0.1	142	3.38	0.088
1193557	Soil	0.3	21.8	1.5	46	<0.1	45.7	29.5	963	4.16	0.8	0.3	<0.5	1.1	82	<0.1	0.6	<0.1	99	3.94	0.030
1193558	Soil	1.7	18.0	10.5	89	<0.1	16.8	17.0	763	5.25	4.9	0.9	<0.5	7.0	11	<0.1	0.5	0.2	66	0.16	0.043
1193559	Soil	1.4	33.5	12.2	108	<0.1	14.7	18.7	1368	5.95	2.4	2.3	2.0	24.6	26	<0.1	0.3	0.1	55	0.53	0.139
1193560	Soil	1.2	51.2	12.2	106	<0.1	14.4	18.8	1120	5.98	3.2	2.4	2.5	22.0	27	0.1	0.3	0.2	59	0.53	0.131
1193561	Soil	0.8	21.3	10.3	88	<0.1	17.8	18.4	577	4.97	5.8	0.9	1.9	10.4	15	<0.1	0.4	0.1	76	0.16	0.028
1193562	Soil	0.7	42.8	8.2	85	<0.1	35.1	27.5	750	4.82	5.2	0.6	1.4	8.7	27	<0.1	0.3	<0.1	96	0.37	0.076
1193563	Soil	1.2	17.5	10.2	54	<0.1	18.2	10.2	298	3.06	10.4	0.5	5.3	4.5	11	<0.1	0.5	0.2	66	0.12	0.025
1193564	Soil	0.8	30.2	11.3	62	<0.1	21.0	12.4	380	3.36	8.6	1.7	3.2	22.2	18	<0.1	0.6	0.5	68	0.21	0.024
1193565	Soil	0.7	15.6	6.3	117	<0.1	8.3	17.6	771	4.63	4.3	0.3	0.5	1.7	17	<0.1	0.5	<0.1	92	0.25	0.080
1193566	Soil	0.9	23.8	10.5	51	<0.1	19.3	12.7	923	3.21	6.2	1.5	6.3	8.1	15	<0.1	0.6	0.2	52	0.27	0.079
1193567	Soil	0.5	14.0	25.4	48	<0.1	12.0	8.2	413	2.60	5.1	1.1	4.9	15.3	15	<0.1	0.4	0.1	37	0.18	0.035
1193568	Soil	0.6	15.3	5.9	70	<0.1	12.8	11.0	480	3.29	5.1	0.6	1.2	4.1	19	<0.1	0.5	<0.1	55	0.19	0.047
1193569	Soil	2.3	32.8	14.3	97	0.1	26.1	14.4	403	4.79	10.3	1.9	<0.5	7.5	17	<0.1	0.6	0.3	87	0.14	0.025
1193571	Soil	1.2	30.6	12.1	83	<0.1	21.6	13.0	858	4.74	2.7	1.4	2.1	9.1	13	<0.1	0.7	<0.1	71	0.36	0.094
1193572	Soil	1.3	59.5	12.0	84	<0.1	20.4	17.4	672	4.65	4.5	2.0	1.6	17.3	17	<0.1	0.4	1.5	87	0.23	0.039
1193573	Soil	1.0	21.1	9.8	52	<0.1	14.4	7.8	447	3.47	3.3	1.1	0.6	7.2	12	<0.1	0.6	<0.1	57	0.25	0.056
1193574	Soil	0.6	18.9	8.5	62	<0.1	20.1	13.1	566	3.59	7.4	1.9	1.6	8.7	28	<0.1	0.5	0.2	68	0.34	0.044
1193575	Soil	0.8	14.3	10.7	56	<0.1	7.2	22.3	1761	3.20	3.6	1.0	<0.5	18.4	7	<0.1	0.4	0.3	37	0.11	0.056
1193576	Soil	0.8	14.5	6.3	50	<0.1	12.9	9.7	482	3.02	5.7	1.2	1.4	12.8	13	<0.1	0.4	0.1	50	0.13	0.024
1193577	Soil	0.9	16.3	9.1	53	<0.1	15.9	10.9	597	3.07	7.9	1.0	1.6	8.3	12	<0.1	0.4	0.1	53	0.15	0.063
1193578	Soil	2.9	9.6	5.9	58	<0.1	8.0	8.2	482	3.22	3.5	1.1	1.0	4.7	6	<0.1	0.2	<0.1	70	0.06	0.057

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002663.2

Method Analyte Unit MDL	1DX15																	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1193542	Soil	12	31	1.64	169	0.101	1	2.40	0.017	0.20	<0.1	<0.01	4.9	0.1	<0.05	5	<0.5	<0.2
1193546	Soil	9	34	0.52	194	0.054	2	1.98	0.008	0.11	0.2	0.01	2.8	0.1	<0.05	5	<0.5	<0.2
1193549	Soil	9	15	0.25	217	0.006	2	1.30	0.005	0.11	<0.1	0.11	2.7	<0.1	<0.05	3	<0.5	<0.2
1193550	Soil	21	20	0.46	185	0.068	2	1.30	0.007	0.23	0.1	0.02	6.0	0.2	<0.05	4	<0.5	<0.2
1193551	Soil	13	31	0.57	205	0.094	2	1.82	0.013	0.09	0.2	0.02	3.3	<0.1	<0.05	7	<0.5	<0.2
1193553	Soil	8	29	0.97	230	0.091	3	1.90	0.007	0.46	0.1	<0.01	4.3	0.2	<0.05	6	<0.5	<0.2
1193554	Soil	16	17	0.53	527	0.029	4	1.03	0.007	0.29	<0.1	0.02	10.9	0.1	<0.05	4	<0.5	<0.2
1193555	Soil	15	15	0.49	365	0.029	3	0.97	0.005	0.32	<0.1	0.02	10.7	0.2	<0.05	4	<0.5	<0.2
1193556	Soil	12	240	0.52	226	0.007	3	0.99	0.005	0.07	0.1	0.07	26.8	<0.1	<0.05	3	<0.5	<0.2
1193557	Soil	3	46	1.69	162	0.007	3	0.77	0.007	0.14	<0.1	<0.01	13.8	<0.1	<0.05	2	<0.5	<0.2
1193558	Soil	8	17	0.37	399	0.020	1	1.66	0.003	0.24	0.1	0.01	6.2	0.2	<0.05	5	<0.5	<0.2
1193559	Soil	68	12	0.69	245	0.093	3	1.74	0.009	0.66	0.1	0.02	6.3	0.4	<0.05	7	<0.5	<0.2
1193560	Soil	62	14	0.69	250	0.084	2	1.69	0.009	0.60	0.2	0.02	6.9	0.4	<0.05	7	<0.5	<0.2
1193561	Soil	35	33	1.20	232	0.203	2	2.94	0.008	0.78	0.1	0.01	5.4	0.4	<0.05	9	<0.5	<0.2
1193562	Soil	13	88	2.16	182	0.296	2	3.20	0.013	1.05	0.2	<0.01	2.3	0.5	<0.05	9	<0.5	<0.2
1193563	Soil	8	31	0.52	183	0.074	2	1.89	0.008	0.08	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
1193564	Soil	35	45	0.77	164	0.083	<1	2.01	0.009	0.17	0.2	0.02	3.9	0.2	<0.05	7	<0.5	<0.2
1193565	Soil	4	13	1.59	281	0.251	<1	2.77	0.009	0.63	0.1	<0.01	2.1	0.2	<0.05	8	<0.5	<0.2
1193566	Soil	26	25	0.32	183	0.032	1	0.99	0.008	0.09	<0.1	0.06	8.9	<0.1	<0.05	3	<0.5	0.2
1193567	Soil	28	19	0.53	191	0.062	<1	1.54	0.007	0.37	<0.1	0.02	3.2	0.2	<0.05	5	<0.5	<0.2
1193568	Soil	10	25	0.89	163	0.122	<1	2.12	0.008	0.27	<0.1	0.01	2.4	0.1	<0.05	7	<0.5	<0.2
1193569	Soil	10	47	0.82	204	0.097	1	2.45	0.009	0.20	0.1	0.03	5.8	0.3	<0.05	8	<0.5	<0.2
1193571	Soil	24	38	0.48	338	0.024	1	1.09	0.004	0.28	0.2	0.10	12.4	0.1	<0.05	4	<0.5	<0.2
1193572	Soil	13	55	1.56	190	0.175	<1	2.58	0.009	0.94	0.2	0.01	5.1	0.7	<0.05	10	<0.5	<0.2
1193573	Soil	11	31	0.37	252	0.018	<1	0.99	0.004	0.17	0.1	0.04	6.3	<0.1	<0.05	3	<0.5	<0.2
1193574	Soil	33	50	1.01	213	0.068	<1	2.02	0.010	0.07	<0.1	0.03	7.2	<0.1	<0.05	7	<0.5	<0.2
1193575	Soil	20	12	0.54	123	0.081	<1	1.81	0.006	0.36	0.2	<0.01	3.5	0.3	<0.05	6	<0.5	<0.2
1193576	Soil	25	21	0.68	145	0.111	<1	1.87	0.009	0.35	<0.1	0.01	3.8	0.2	<0.05	7	<0.5	<0.2
1193577	Soil	18	25	0.53	182	0.077	<1	1.73	0.009	0.24	0.1	0.03	3.2	0.1	<0.05	5	<0.5	<0.2
1193578	Soil	7	15	0.35	80	0.050	<1	1.01	0.006	0.28	<0.1	0.02	5.7	0.1	<0.05	6	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002663.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1193579	Soil	0.4	24.6	3.9	74	<0.1	31.6	19.3	851	5.31	4.9	1.4	2.3	12.3	25	<0.1	0.4	<0.1	106	0.26	0.021
1193580	Soil	1.3	30.3	10.3	45	<0.1	20.9	8.9	284	2.72	9.0	2.3	4.4	9.0	16	<0.1	0.5	0.2	54	0.19	0.028
1193581	Soil	0.6	17.0	28.5	61	<0.1	11.8	10.7	845	3.36	1.9	0.8	0.6	10.3	6	<0.1	0.2	0.1	53	0.12	0.053
1193582	Soil	5.7	14.3	10.7	89	<0.1	22.4	17.4	805	4.96	3.6	1.0	0.7	6.5	14	<0.1	0.3	0.1	103	0.51	0.087
1197803	Soil	0.8	23.9	8.7	47	<0.1	17.2	11.2	254	2.54	6.4	0.7	1.1	3.1	29	<0.1	0.4	0.1	62	0.23	0.025
1197804	Soil	0.2	118.0	11.2	76	<0.1	24.0	19.6	791	3.82	1.3	1.2	2.6	4.8	41	<0.1	0.1	0.1	107	0.50	0.084
1197805	Soil	0.2	91.9	13.1	82	<0.1	23.9	20.6	642	3.91	2.7	0.7	2.3	3.7	43	<0.1	0.2	0.1	104	0.45	0.042
1197806	Soil	0.7	25.2	21.3	51	0.1	23.3	12.0	348	2.84	8.6	0.8	3.7	4.2	29	<0.1	0.7	0.3	63	0.29	0.025
1197807	Soil	0.8	304.2	8.1	84	0.1	28.4	17.1	611	3.64	8.0	0.7	3.0	4.5	51	<0.1	0.6	0.1	88	0.49	0.036
1197808	Soil	0.8	44.4	7.7	65	<0.1	28.1	16.4	440	3.47	9.0	0.9	3.2	4.6	35	<0.1	0.5	0.1	88	0.40	0.043
1197809	Soil	0.6	53.8	5.3	74	<0.1	31.1	17.6	539	3.62	6.9	1.1	2.2	3.6	54	<0.1	0.4	<0.1	93	0.63	0.066
1197810	Soil	0.5	71.7	14.7	87	0.1	22.6	17.6	617	3.80	4.4	0.8	2.4	3.9	51	<0.1	0.3	0.1	110	0.65	0.079
1197811	Soil	0.6	91.2	16.4	223	<0.1	14.7	12.5	865	4.00	4.7	2.0	2.1	15.4	31	0.5	0.3	<0.1	78	0.37	0.046
1197812	Soil	0.6	58.2	28.1	66	0.2	17.3	9.8	531	3.02	8.0	1.9	4.7	11.0	78	0.2	0.5	0.2	51	4.65	0.042
1197813	Soil	0.8	19.8	7.9	69	<0.1	23.9	13.2	401	3.27	9.0	0.6	2.8	3.4	41	<0.1	0.6	0.1	80	0.41	0.040
1197814	Soil	0.7	36.9	11.6	55	<0.1	20.3	12.5	269	3.20	7.8	0.6	1.5	4.1	42	<0.1	0.6	0.2	79	0.38	0.024
1197815	Soil	0.8	20.9	9.1	56	<0.1	21.1	10.2	352	2.85	10.2	0.4	2.5	3.4	24	<0.1	0.7	0.2	61	0.21	0.030
1197816	Soil	0.5	334.7	16.0	92	<0.1	23.2	18.5	664	4.39	3.1	1.3	3.0	4.3	34	0.1	0.3	<0.1	93	0.44	0.038
1197817	Soil	0.6	21.1	4.8	73	<0.1	20.9	15.6	563	3.03	3.6	0.3	6.3	1.8	37	<0.1	0.2	<0.1	83	0.43	0.048
1197819	Soil	0.7	26.8	6.2	71	<0.1	23.0	14.6	455	3.18	6.2	0.3	2.1	2.3	64	<0.1	0.4	<0.1	80	0.44	0.031
1197820	Soil	1.0	36.4	10.8	63	<0.1	27.8	14.6	541	3.65	12.3	0.7	9.6	4.9	44	<0.1	0.7	0.2	85	0.36	0.025
1197821	Soil	1.0	72.0	7.6	64	<0.1	20.6	12.4	581	3.20	8.3	0.7	3.8	4.4	26	<0.1	0.6	0.1	73	0.29	0.022
1197822	Soil	0.8	34.1	39.9	80	<0.1	26.1	15.3	522	3.83	7.2	0.8	1.4	4.2	49	<0.1	0.6	0.4	105	0.48	0.038
1197823	Soil	0.6	14.0	6.9	92	<0.1	37.6	25.5	833	4.98	5.4	0.7	1.9	3.5	101	<0.1	0.3	<0.1	143	0.95	0.071
1197824	Soil	0.5	33.2	64.7	57	<0.1	26.1	13.7	655	2.95	7.0	1.0	5.0	4.0	48	<0.1	0.4	0.2	73	0.53	0.025
1197825	Soil	1.0	32.0	14.7	72	0.1	24.8	10.4	398	3.24	10.4	0.8	3.6	5.0	25	<0.1	0.7	0.2	72	0.25	0.024
1197826	Soil	0.5	67.1	5.8	101	<0.1	38.3	26.6	987	5.31	4.5	1.4	3.5	4.4	47	<0.1	0.3	<0.1	146	0.70	0.083
1197827	Soil	0.3	63.3	6.5	73	0.1	37.7	22.2	681	3.97	5.9	0.5	4.8	3.1	63	<0.1	0.4	<0.1	90	0.86	0.044
1197828	Soil	0.1	18.0	4.1	38	<0.1	12.6	10.1	590	1.93	1.7	0.5	3.1	1.6	132	0.1	0.2	<0.1	53	7.98	0.030
1197829	Soil	0.6	151.7	8.9	119	<0.1	37.4	20.0	927	5.22	4.0	0.9	2.2	4.0	53	<0.1	0.2	<0.1	144	0.60	0.065

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1193579	Soil	61	54	1.98	256	0.250	<1	3.02	0.014	0.63	<0.1	0.02	9.1	0.2	<0.05	12	<0.5	<0.2
1193580	Soil	33	32	0.48	228	0.049	<1	1.81	0.011	0.06	0.1	0.07	5.7	<0.1	<0.05	5	<0.5	<0.2
1193581	Soil	12	14	0.47	118	0.083	<1	1.14	0.005	0.36	<0.1	0.02	4.8	0.2	<0.05	5	<0.5	<0.2
1193582	Soil	8	35	0.86	519	0.082	1	1.80	0.005	0.60	<0.1	0.02	9.7	0.4	<0.05	7	<0.5	<0.2
1197803	Soil	12	33	0.65	203	0.067	<1	1.68	0.012	0.10	0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
1197804	Soil	13	46	2.24	359	0.238	1	2.48	0.014	1.06	<0.1	<0.01	6.2	0.4	<0.05	9	<0.5	<0.2
1197805	Soil	12	44	2.21	337	0.225	1	2.52	0.013	0.80	<0.1	<0.01	6.2	0.3	<0.05	9	<0.5	<0.2
1197806	Soil	14	37	0.68	244	0.082	1	1.62	0.014	0.07	0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
1197807	Soil	12	48	1.44	324	0.153	2	2.33	0.014	0.15	0.1	0.02	5.0	<0.1	<0.05	8	<0.5	<0.2
1197808	Soil	12	48	1.23	243	0.156	1	2.10	0.017	0.36	<0.1	0.01	5.2	0.1	<0.05	7	<0.5	<0.2
1197809	Soil	13	49	1.36	231	0.170	<1	2.03	0.018	0.36	0.1	<0.01	5.7	<0.1	<0.05	8	<0.5	<0.2
1197810	Soil	14	71	1.38	177	0.168	<1	1.71	0.022	0.16	<0.1	<0.01	9.9	<0.1	<0.05	9	<0.5	<0.2
1197811	Soil	24	26	1.01	218	0.201	1	1.84	0.011	0.45	<0.1	<0.01	6.8	0.1	<0.05	8	<0.5	<0.2
1197812	Soil	26	20	0.78	254	0.056	2	1.26	0.016	0.05	0.1	0.05	4.8	<0.1	<0.05	7	<0.5	<0.2
1197813	Soil	10	43	0.90	307	0.114	2	1.92	0.013	0.06	0.1	0.01	3.5	<0.1	<0.05	7	<0.5	<0.2
1197814	Soil	10	46	0.68	237	0.089	<1	1.65	0.024	0.06	<0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
1197815	Soil	8	35	0.62	241	0.082	<1	1.45	0.012	0.09	0.2	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1197816	Soil	12	38	1.00	236	0.014	<1	2.33	0.010	0.11	<0.1	0.02	9.1	<0.1	<0.05	11	<0.5	<0.2
1197817	Soil	5	39	1.29	356	0.151	<1	1.98	0.019	0.46	<0.1	<0.01	3.9	<0.1	<0.05	6	<0.5	<0.2
1197819	Soil	6	41	1.17	344	0.139	<1	2.10	0.014	0.19	<0.1	<0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
1197820	Soil	11	48	0.75	334	0.087	<1	2.11	0.014	0.08	<0.1	0.02	6.4	<0.1	<0.05	7	<0.5	<0.2
1197821	Soil	10	35	0.71	333	0.093	<1	1.77	0.013	0.10	0.1	0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
1197822	Soil	9	46	1.35	206	0.136	1	2.06	0.015	0.08	0.1	0.01	5.7	<0.1	<0.05	8	<0.5	<0.2
1197823	Soil	7	70	2.15	315	0.272	1	3.44	0.022	0.23	0.1	<0.01	7.4	<0.1	<0.05	13	<0.5	<0.2
1197824	Soil	14	38	0.87	227	0.050	<1	1.82	0.013	0.06	<0.1	0.03	7.0	<0.1	<0.05	7	<0.5	<0.2
1197825	Soil	14	44	0.69	238	0.085	1	1.72	0.011	0.06	0.1	0.04	5.8	<0.1	<0.05	6	<0.5	<0.2
1197826	Soil	11	66	2.06	248	0.188	<1	2.34	0.010	0.07	<0.1	<0.01	13.2	<0.1	<0.05	13	<0.5	<0.2
1197827	Soil	13	49	1.73	208	0.054	<1	2.26	0.023	0.05	<0.1	0.05	7.4	<0.1	<0.05	9	<0.5	<0.2
1197828	Soil	9	22	1.09	175	0.055	<1	1.37	0.017	0.05	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
1197829	Soil	11	68	2.25	289	0.259	1	2.76	0.010	0.35	0.1	<0.01	9.5	<0.1	<0.05	14	0.7	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002663.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197831	Soil	0.6	209.5	10.3	116	<0.1	34.9	15.8	935	4.86	3.6	1.0	2.5	4.5	49	0.2	0.3	<0.1	136	0.54	0.062
1197832	Soil	0.8	47.7	15.9	92	<0.1	26.4	19.7	718	3.80	4.5	0.6	2.1	2.4	46	0.1	0.3	<0.1	104	0.55	0.068
1197833	Soil	0.6	37.3	11.3	53	<0.1	24.6	14.5	693	3.46	7.0	0.7	2.9	4.0	30	<0.1	0.6	<0.1	89	0.54	0.023
1197834	Soil	0.4	28.9	3.4	63	<0.1	29.8	28.8	913	6.03	3.9	1.3	1.5	5.0	31	<0.1	0.3	<0.1	166	0.57	0.103
1197835	Soil	0.5	22.1	10.7	69	<0.1	18.4	14.2	676	3.78	4.6	1.0	2.6	4.8	20	<0.1	0.3	<0.1	87	0.35	0.070
1197836	Soil	0.9	115.0	15.7	64	<0.1	14.2	11.2	509	3.28	3.7	0.8	7.0	4.1	21	<0.1	0.4	0.3	68	0.33	0.030
1196445	Soil	0.9	19.9	8.7	62	<0.1	24.1	11.5	358	3.06	9.6	0.6	4.3	3.5	34	<0.1	0.6	0.1	69	0.34	0.037
1196448	Soil	0.3	120.8	9.8	67	<0.1	27.3	18.4	626	3.99	5.4	0.8	4.4	4.0	62	<0.1	0.3	<0.1	115	0.73	0.051
1196449	Soil	0.3	121.1	7.5	64	<0.1	26.6	18.0	630	3.79	4.5	0.7	2.9	3.5	65	<0.1	0.3	<0.1	111	0.72	0.051
1192252	Soil	0.3	60.7	15.6	138	<0.1	18.5	19.5	1125	5.45	4.0	1.0	3.5	4.2	47	0.2	0.5	0.1	106	0.63	0.071
1192262	Soil	1.6	20.8	13.5	97	<0.1	31.6	13.9	426	4.08	13.8	0.9	<0.5	12.1	22	0.1	0.7	0.4	71	0.28	0.020
1192263	Soil	0.8	29.6	11.2	52	0.4	26.4	9.0	346	2.81	11.2	1.3	6.8	6.5	29	<0.1	0.6	0.3	55	0.51	0.056
1192265	Soil	0.8	41.3	58.6	101	0.2	16.9	20.5	1078	4.85	5.8	0.7	<0.5	4.9	38	0.1	0.9	0.4	149	0.53	0.028
1192266	Soil	0.3	55.4	4.4	48	<0.1	12.2	12.1	257	2.74	4.5	0.6	3.7	1.7	39	0.1	0.5	0.1	80	0.58	0.016
1192267	Soil	0.6	17.5	14.0	44	0.2	17.8	7.1	374	2.05	7.1	0.7	2.6	3.5	20	<0.1	0.3	0.1	46	0.37	0.039
1192283	Soil	0.5	20.9	11.8	88	<0.1	11.4	11.2	643	3.56	5.6	0.8	0.7	4.1	42	0.1	0.3	<0.1	63	0.43	0.084
1192284	Soil	1.0	26.8	17.6	109	0.2	13.6	10.0	958	3.49	4.6	0.5	0.6	2.6	27	0.3	0.4	0.2	55	0.37	0.070
1196709	Soil	0.7	41.5	9.5	44	<0.1	39.8	12.9	297	2.63	8.3	0.4	1.7	3.2	19	<0.1	0.5	<0.1	60	0.26	0.016
1196710	Soil	1.2	60.6	16.7	121	<0.1	23.2	12.1	367	2.99	68.2	1.4	1.0	9.4	29	0.3	2.6	0.1	66	0.52	0.050
1196711	Soil	4.1	80.4	32.8	123	0.2	60.7	9.4	392	3.63	45.6	1.7	1.5	9.6	28	1.1	0.7	0.4	117	0.46	0.053
1196712	Soil	1.6	44.2	43.0	228	0.1	36.0	15.7	531	4.39	13.9	1.4	<0.5	10.2	33	0.5	0.4	0.2	114	0.57	0.092
1196713	Soil	1.3	15.9	12.7	60	0.1	15.0	12.1	478	4.40	7.7	0.9	2.7	4.5	16	0.2	0.4	0.1	51	0.25	0.036
1196714	Soil	1.1	12.4	9.7	46	<0.1	16.9	9.6	569	2.50	9.2	1.4	3.9	3.6	22	<0.1	0.4	0.1	50	0.47	0.025
1196715	Soil	0.8	27.0	41.4	85	<0.1	19.2	9.8	343	3.57	23.6	0.8	10.0	6.3	22	0.1	0.5	0.3	60	0.23	0.024
1196716	Soil	0.8	46.1	9.5	136	<0.1	59.0	26.5	562	6.18	13.2	1.5	<0.5	21.9	33	<0.1	0.2	0.1	64	0.61	0.047
1196717	Soil	0.9	46.0	10.0	116	<0.1	45.9	21.3	434	5.07	10.4	1.4	<0.5	16.7	26	0.1	0.3	0.1	61	0.58	0.038
1196718	Soil	1.4	18.8	68.7	73	0.2	29.1	14.4	414	3.03	8.2	0.5	<0.5	4.8	39	0.1	0.4	0.6	59	0.43	0.038
1196719	Soil	1.3	17.9	67.0	79	0.2	27.9	15.0	415	2.98	7.8	0.5	<0.5	6.2	47	0.1	0.3	0.5	56	0.49	0.038
1196722	Soil	0.9	33.9	57.2	120	0.1	40.0	16.7	507	4.95	3.1	0.7	<0.5	9.5	70	0.1	0.2	0.3	91	0.48	0.038
1196724	Soil	0.7	40.2	29.6	90	<0.1	14.1	16.0	519	4.76	7.8	0.5	1.4	2.6	25	0.1	0.7	0.3	120	0.41	0.027

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.001	0.01	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197831	Soil	9	63	2.23	247	0.245	<1	2.46	0.010	0.26	0.1	<0.01	9.5	<0.1	<0.05	13	<0.5	<0.2
1197832	Soil	5	51	1.49	239	0.156	<1	2.19	0.017	0.16	<0.1	<0.01	5.0	<0.1	<0.05	9	<0.5	<0.2
1197833	Soil	11	37	0.82	312	0.025	<1	1.98	0.014	0.06	<0.1	0.02	8.2	<0.1	<0.05	7	<0.5	<0.2
1197834	Soil	17	40	2.25	378	0.180	1	2.77	0.012	0.52	<0.1	<0.01	15.6	<0.1	<0.05	12	<0.5	<0.2
1197835	Soil	8	28	1.00	211	0.037	<1	1.76	0.009	0.25	<0.1	<0.01	6.7	<0.1	<0.05	9	<0.5	<0.2
1197836	Soil	8	19	0.83	215	0.007	<1	1.63	0.009	0.09	<0.1	0.05	5.3	<0.1	<0.05	9	0.8	<0.2
1196445	Soil	10	41	0.73	302	0.088	<1	1.75	0.013	0.05	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
1196448	Soil	13	71	1.57	354	0.225	<1	2.20	0.020	0.28	<0.1	0.03	6.9	<0.1	<0.05	9	0.6	<0.2
1196449	Soil	11	69	1.55	352	0.226	<1	2.11	0.020	0.33	<0.1	0.03	6.2	<0.1	<0.05	8	<0.5	<0.2
1192252	Soil	19	41	1.37	442	0.076	<1	2.36	0.018	0.36	<0.1	0.03	13.8	<0.1	<0.05	11	0.7	<0.2
1192262	Soil	14	50	0.72	248	0.044	<1	2.31	0.006	0.10	0.2	<0.01	4.3	0.2	<0.05	8	<0.5	0.2
1192263	Soil	37	30	0.49	305	0.053	3	1.59	0.016	0.07	0.1	0.07	5.7	<0.1	<0.05	5	<0.5	<0.2
1192265	Soil	10	42	1.55	266	0.133	<1	2.81	0.023	0.06	<0.1	<0.01	10.8	<0.1	<0.05	10	<0.5	<0.2
1192266	Soil	9	22	0.76	132	0.112	<1	1.88	0.044	0.05	<0.1	0.02	8.6	<0.1	<0.05	5	<0.5	0.3
1192267	Soil	10	25	0.42	271	0.043	<1	1.39	0.012	0.04	0.1	0.04	2.7	<0.1	<0.05	5	<0.5	<0.2
1192283	Soil	8	19	0.76	246	0.156	<1	1.92	0.020	0.68	<0.1	0.02	4.2	0.2	<0.05	7	<0.5	<0.2
1192284	Soil	8	22	0.39	387	0.037	<1	1.80	0.012	0.11	0.1	<0.01	5.7	<0.1	<0.05	7	<0.5	<0.2
1196709	Soil	6	66	0.88	230	0.083	1	1.91	0.016	0.05	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
1196710	Soil	24	32	1.34	121	0.071	<1	2.20	0.008	0.05	<0.1	0.01	6.2	<0.1	<0.05	8	0.8	<0.2
1196711	Soil	26	89	1.13	345	0.009	1	2.24	0.008	0.07	<0.1	0.09	6.3	<0.1	<0.05	10	1.0	<0.2
1196712	Soil	16	58	1.72	650	0.163	<1	2.75	0.012	0.56	<0.1	0.02	8.2	0.2	<0.05	11	1.1	<0.2
1196713	Soil	8	23	0.54	482	0.039	<1	1.81	0.013	0.25	0.1	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
1196714	Soil	9	29	0.43	385	0.047	2	1.46	0.017	0.09	0.1	0.01	2.8	<0.1	<0.05	5	0.9	<0.2
1196715	Soil	12	28	0.59	212	0.053	<1	1.81	0.012	0.07	0.1	0.02	4.7	<0.1	<0.05	8	0.5	<0.2
1196716	Soil	22	58	1.35	302	0.203	<1	3.32	0.012	0.81	<0.1	<0.01	6.4	0.5	<0.05	13	0.7	<0.2
1196717	Soil	21	49	1.12	322	0.154	<1	2.80	0.013	0.55	<0.1	0.01	5.5	0.3	<0.05	10	0.8	<0.2
1196718	Soil	7	38	0.52	197	0.047	<1	2.17	0.011	0.08	0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
1196719	Soil	8	37	0.52	189	0.046	<1	2.21	0.010	0.08	<0.1	<0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
1196722	Soil	10	80	1.34	285	0.252	<1	2.89	0.014	0.47	0.2	<0.01	8.2	0.3	<0.05	15	0.5	<0.2
1196724	Soil	5	23	0.97	302	0.022	<1	2.26	0.012	0.06	<0.1	0.02	6.2	<0.1	<0.05	8	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11002663.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1196725	Soil		0.8	36.7	67.2	121	<0.1	41.8	17.8	507	5.16	2.8	0.8	<0.5	11.2	71	0.2	0.1	0.2	92	0.54	0.041
1196726	Soil		1.0	15.7	50.1	69	0.5	16.8	10.9	793	3.14	7.0	0.5	0.7	3.1	17	0.2	0.4	0.4	58	0.20	0.029
1196727	Soil		0.5	28.6	18.9	114	<0.1	11.7	10.4	626	5.13	8.7	1.3	3.2	4.7	25	0.1	0.3	0.2	66	0.45	0.079
1196728	Soil		1.0	14.8	14.9	65	0.1	21.9	10.2	577	2.78	7.6	0.6	3.1	4.1	21	<0.1	0.4	0.2	59	0.27	0.074
1196729	Soil		0.7	28.5	64.2	96	0.1	19.7	10.9	498	3.58	6.2	1.0	<0.5	4.7	33	<0.1	0.4	0.4	69	0.35	0.051
1196730	Soil		0.2	31.5	7.7	37	<0.1	9.6	11.0	281	2.38	3.2	0.3	<0.5	1.4	50	<0.1	0.2	<0.1	71	0.56	0.089
1196731	Soil		0.6	26.4	12.7	62	<0.1	20.0	8.5	416	3.16	8.0	1.1	3.1	5.5	22	<0.1	0.4	0.1	54	0.22	0.024
1196732	Soil		0.4	33.1	50.8	95	<0.1	9.8	6.5	862	3.84	3.5	2.8	2.2	14.8	43	0.2	0.4	0.5	24	0.37	0.059
1196733	Soil		0.8	14.5	19.2	121	0.2	15.8	9.3	674	2.61	4.9	0.7	0.8	3.8	23	0.5	0.3	0.1	56	0.28	0.064
1196734	Soil		0.4	36.3	27.7	116	<0.1	8.8	5.3	960	3.75	2.7	1.0	<0.5	5.7	17	<0.1	0.2	0.2	23	0.21	0.036
1196735	Soil		0.5	46.9	110.8	106	0.2	13.8	13.7	979	5.05	3.5	1.1	6.4	5.0	24	<0.1	0.2	0.8	92	0.29	0.051
1196736	Soil		0.6	17.9	27.0	100	<0.1	14.1	11.1	661	4.15	4.4	0.7	<0.5	5.4	23	<0.1	0.2	0.2	66	0.27	0.043
1196737	Soil		0.8	51.1	20.0	81	0.2	17.0	11.6	957	3.86	5.3	0.9	1.7	7.3	27	0.1	0.4	0.2	64	0.32	0.055
1196738	Soil		1.2	25.8	10.3	93	0.2	18.7	10.5	286	3.25	7.9	0.3	4.4	2.1	24	0.2	0.5	0.2	83	0.25	0.028
1196739	Soil		0.6	18.8	14.0	125	<0.1	12.2	6.0	559	4.19	6.7	1.0	1.4	4.1	44	<0.1	0.4	0.1	54	0.31	0.033
1196740	Soil		0.6	27.9	11.0	235	<0.1	15.2	14.1	666	5.06	5.5	0.9	1.4	4.6	111	0.3	0.4	0.1	115	0.61	0.030
1197757	Soil		1.0	32.8	11.5	65	0.2	32.0	12.3	534	3.02	12.1	0.8	2.8	4.0	42	0.1	0.7	0.2	68	0.67	0.045
1197767	Soil		1.4	29.8	14.2	62	<0.1	33.0	13.5	603	3.49	10.9	0.7	1.7	3.8	38	0.1	0.7	0.2	78	0.54	0.054
1194552	Soil		1.1	50.7	15.8	57	<0.1	29.4	14.6	898	3.38	10.6	1.1	3.2	4.5	38	<0.1	0.7	0.2	72	0.54	0.055
1194553	Soil		1.3	18.3	11.8	41	0.2	19.5	7.6	169	2.67	11.2	0.4	2.6	2.7	22	0.1	0.5	0.2	81	0.32	0.036
1194554	Soil		0.8	20.7	10.3	49	0.1	21.0	11.0	563	2.66	10.0	1.6	2.5	3.3	37	0.1	0.5	0.2	60	0.54	0.049
1194555	Soil		1.4	22.9	11.1	59	<0.1	25.1	11.8	260	3.16	12.2	0.6	1.2	4.5	27	<0.1	0.8	0.2	76	0.33	0.026
1194556	Soil		4.3	43.2	30.1	69	0.6	36.4	12.8	318	3.15	36.4	1.2	4.9	5.8	37	0.5	3.1	0.3	64	0.47	0.054
1194557	Soil		2.0	49.4	20.3	85	0.1	42.2	16.2	504	4.54	107.9	0.9	4.3	5.2	47	0.2	2.5	0.3	85	0.82	0.065
1194558	Soil		1.1	29.9	17.0	62	<0.1	26.0	11.7	467	3.49	13.0	1.7	1.4	4.0	36	<0.1	0.7	0.2	72	0.52	0.054
1194559	Soil		0.8	32.1	11.4	65	<0.1	29.1	11.5	421	2.89	11.7	0.8	2.7	4.0	44	0.2	0.8	0.2	62	0.67	0.072
1194560	Soil		1.0	18.2	11.2	57	<0.1	21.5	9.7	255	2.66	9.2	0.9	2.9	3.5	34	<0.1	0.5	0.2	59	0.49	0.058
1194561	Soil		0.8	30.6	11.2	75	<0.1	30.4	10.9	499	2.86	9.3	0.8	2.9	3.1	51	0.4	0.6	0.2	59	0.81	0.061
1194562	Soil		1.5	28.9	36.6	69	0.2	33.1	12.8	478	3.33	18.0	1.1	3.8	6.1	40	0.1	0.9	0.3	75	0.58	0.040
1194563	Soil		1.4	23.7	21.7	69	0.2	30.5	13.1	560	3.19	13.4	0.9	3.6	5.1	40	0.2	0.6	0.3	69	0.58	0.040

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1196725	Soil	13	85	1.44	291	0.291	<1	3.09	0.014	0.56	0.1	<0.01	8.9	0.3	<0.05	16	<0.5	<0.2
1196726	Soil	6	29	0.58	231	0.051	<1	1.80	0.011	0.07	0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
1196727	Soil	22	11	0.92	261	0.065	<1	1.95	0.015	0.19	<0.1	0.06	11.8	<0.1	<0.05	11	0.6	<0.2
1196728	Soil	8	33	0.46	324	0.058	<1	1.66	0.012	0.11	0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1196729	Soil	12	32	0.60	241	0.081	<1	2.03	0.016	0.24	0.1	0.02	7.0	<0.1	<0.05	8	<0.5	<0.2
1196730	Soil	4	15	0.56	169	0.101	<1	1.39	0.030	0.10	<0.1	<0.01	3.1	<0.1	<0.05	5	0.5	<0.2
1196731	Soil	14	32	0.55	192	0.102	<1	1.57	0.011	0.26	0.1	0.03	6.0	0.1	<0.05	6	<0.5	<0.2
1196732	Soil	31	10	0.57	193	0.125	<1	1.52	0.011	0.32	<0.1	0.04	6.0	0.1	<0.05	10	1.1	<0.2
1196733	Soil	8	29	0.41	340	0.059	<1	1.59	0.012	0.15	<0.1	0.01	4.1	<0.1	<0.05	6	<0.5	<0.2
1196734	Soil	16	10	0.83	172	0.062	<1	1.67	0.010	0.26	<0.1	0.01	7.3	0.1	<0.05	11	0.7	<0.2
1196735	Soil	11	22	1.17	402	0.263	<1	2.54	0.012	1.30	<0.1	0.01	11.1	0.3	<0.05	11	0.6	<0.2
1196736	Soil	12	19	0.99	225	0.224	<1	2.49	0.011	0.52	0.1	<0.01	8.3	0.2	<0.05	10	<0.5	<0.2
1196737	Soil	16	27	0.58	241	0.090	<1	2.11	0.011	0.25	<0.1	0.03	6.9	<0.1	<0.05	10	<0.5	<0.2
1196738	Soil	7	31	0.57	168	0.080	<1	2.20	0.013	0.08	<0.1	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
1196739	Soil	20	20	0.56	161	0.127	<1	2.26	0.013	0.17	<0.1	<0.01	7.9	<0.1	<0.05	12	<0.5	<0.2
1196740	Soil	20	26	1.05	238	0.152	<1	2.65	0.050	0.06	<0.1	0.07	11.5	<0.1	<0.05	11	<0.5	<0.2
1197757	Soil	15	36	0.66	350	0.077	3	1.74	0.038	0.07	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
1197767	Soil	11	51	0.64	389	0.092	<1	1.90	0.016	0.09	0.2	<0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
1194552	Soil	16	38	0.62	635	0.103	<1	1.95	0.027	0.13	0.1	0.02	5.4	<0.1	<0.05	6	<0.5	<0.2
1194553	Soil	9	35	0.61	261	0.108	2	1.70	0.012	0.08	0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
1194554	Soil	12	31	0.51	410	0.058	2	1.62	0.019	0.05	0.2	0.02	3.1	<0.1	<0.05	5	1.1	<0.2
1194555	Soil	14	44	0.63	315	0.065	1	1.88	0.018	0.05	0.2	0.03	4.3	<0.1	<0.05	6	<0.5	<0.2
1194556	Soil	19	32	0.46	1270	0.043	2	1.60	0.016	0.07	0.1	0.10	4.2	<0.1	<0.05	4	0.9	<0.2
1194557	Soil	17	50	0.78	657	0.074	2	2.49	0.029	0.14	0.2	0.07	7.0	<0.1	<0.05	8	<0.5	<0.2
1194558	Soil	14	40	0.55	536	0.083	2	1.89	0.019	0.10	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
1194559	Soil	13	34	0.62	395	0.076	1	1.53	0.025	0.06	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
1194560	Soil	11	32	0.56	306	0.074	2	1.71	0.019	0.06	0.2	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
1194561	Soil	11	31	0.59	487	0.073	2	1.65	0.027	0.07	0.2	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1194562	Soil	19	45	0.79	305	0.081	3	1.74	0.026	0.08	0.3	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
1194563	Soil	15	43	0.70	366	0.077	2	1.76	0.024	0.08	0.2	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
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CERTIFICATE OF ANALYSIS

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	Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1194565	Soil		1.9	58.9	16.4	90	0.2	70.1	20.0	609	4.25	33.3	1.5	3.2	7.0	51	0.2	1.8	0.2	106	0.71	0.078
1194571	Soil		0.9	30.0	14.6	50	<0.1	27.0	11.9	421	2.89	11.4	0.6	4.6	4.5	33	0.1	0.6	0.2	74	0.42	0.050
1194572	Soil		1.2	23.5	11.2	66	0.3	21.9	10.7	910	3.24	8.5	0.7	1.1	3.9	24	<0.1	1.5	0.2	57	0.30	0.021
1194573	Soil		1.2	15.0	14.0	49	0.2	17.3	8.0	427	2.70	7.1	0.9	2.7	6.4	22	<0.1	0.8	0.3	49	0.28	0.018
1194574	Soil		0.9	16.6	25.2	48	0.2	17.6	8.1	411	2.30	7.6	0.8	3.5	5.0	21	<0.1	0.8	0.6	49	0.22	0.016
1194575	Soil		1.5	18.1	32.3	56	0.2	11.7	6.8	894	3.03	6.8	1.6	2.4	7.8	25	<0.1	1.1	2.9	34	0.24	0.023
1194576	Soil		1.2	17.8	16.5	60	0.1	16.8	8.5	388	3.17	7.6	1.1	2.4	6.7	22	<0.1	0.8	0.2	52	0.20	0.015
1194577	Soil		1.3	18.1	13.6	59	0.2	20.2	10.2	961	2.93	8.0	0.7	6.9	5.1	23	0.1	0.7	0.2	61	0.23	0.023
1194578	Soil		1.7	26.8	15.6	57	0.1	31.1	13.1	442	3.04	12.4	0.8	1.3	4.2	40	0.1	0.7	0.2	68	0.43	0.032
1194579	Soil		2.7	41.1	36.7	79	0.6	40.2	13.7	438	3.52	16.5	1.1	4.3	4.6	35	0.1	1.8	0.5	79	0.58	0.062
1194580	Soil		1.9	34.3	58.6	87	0.3	45.7	15.4	619	3.79	14.4	1.2	3.4	4.0	38	0.2	2.1	0.5	95	0.81	0.049
1194581	Soil		0.9	28.4	16.8	85	<0.1	15.6	11.0	614	4.18	6.3	1.4	4.8	5.5	24	<0.1	0.8	0.2	76	0.39	0.049
1194582	Soil		1.4	47.6	24.2	123	0.1	17.8	18.5	923	4.85	16.1	2.0	7.1	3.9	28	0.2	0.9	0.3	95	0.49	0.052
1194583	Soil		1.3	26.9	24.5	69	<0.1	23.6	11.4	577	3.03	22.1	2.0	5.0	5.3	26	0.2	0.9	0.2	61	0.41	0.040
1194584	Soil		1.3	40.3	72.4	78	0.3	14.1	10.1	844	3.37	12.5	2.2	8.8	4.4	23	<0.1	0.8	0.5	46	0.51	0.030
1194585	Soil		1.2	17.9	27.3	51	0.2	14.6	7.9	250	2.64	7.5	0.6	5.0	3.4	17	<0.1	0.5	0.2	56	0.23	0.019
1194586	Soil		1.3	18.5	34.3	134	0.1	14.2	8.3	506	3.76	5.5	1.2	5.3	7.3	18	<0.1	0.6	0.2	46	0.23	0.037



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1194565	Soil	24	100	1.00	433	0.077	1	2.46	0.019	0.06	0.2	0.05	8.1	<0.1	<0.05	8	<0.5	<0.2
1194571	Soil	14	39	0.61	504	0.091	<1	1.75	0.021	0.05	0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
1194572	Soil	12	32	0.42	589	0.056	2	1.56	0.013	0.17	0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
1194573	Soil	19	31	0.44	568	0.056	1	1.47	0.013	0.09	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
1194574	Soil	16	29	0.40	431	0.058	2	1.27	0.013	0.09	0.1	0.06	3.6	<0.1	<0.05	4	<0.5	<0.2
1194575	Soil	20	19	0.35	890	0.011	1	1.87	0.010	0.18	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1194576	Soil	20	27	0.42	506	0.056	<1	1.58	0.010	0.08	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
1194577	Soil	12	33	0.50	447	0.063	1	1.71	0.019	0.06	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
1194578	Soil	13	43	0.59	356	0.069	1	1.92	0.014	0.05	0.1	0.04	4.7	<0.1	<0.05	5	0.6	<0.2
1194579	Soil	15	33	0.48	940	0.041	3	1.68	0.019	0.06	0.1	0.09	5.9	<0.1	<0.05	4	<0.5	<0.2
1194580	Soil	17	48	0.70	628	0.040	<1	2.23	0.015	0.05	0.2	0.07	6.6	<0.1	<0.05	7	<0.5	<0.2
1194581	Soil	21	26	0.75	461	0.039	2	2.16	0.017	0.08	0.2	0.06	8.4	<0.1	<0.05	9	0.8	<0.2
1194582	Soil	12	17	0.72	732	0.013	2	2.33	0.013	0.13	0.2	0.07	11.6	<0.1	<0.05	9	0.9	<0.2
1194583	Soil	12	45	0.55	394	0.058	<1	1.71	0.017	0.08	0.2	0.06	5.7	<0.1	<0.05	6	0.6	<0.2
1194584	Soil	32	21	0.26	1564	0.009	2	1.56	0.014	0.12	0.2	0.11	9.6	<0.1	<0.05	5	2.3	<0.2
1194585	Soil	8	28	0.36	442	0.054	<1	1.37	0.012	0.05	0.2	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
1194586	Soil	6	23	0.48	392	0.054	<1	1.81	0.011	0.25	0.2	0.04	4.2	<0.1	<0.05	7	<0.5	<0.2





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Project: HEN  
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QUALITY CONTROL REPORT

VAN11002663.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1193556	Soil	0.8	87.0	4.6	79	0.2	138.8	45.9	1207	7.10	4.0	1.0	3.5	2.1	42	0.1	3.0	<0.1	142	3.38	0.088
REP 1193556	QC	0.9	87.1	4.5	81	0.3	137.8	46.6	1226	7.28	3.8	1.0	1.4	2.2	42	<0.1	3.0	<0.1	143	3.44	0.092
1193575	Soil	0.8	14.3	10.7	56	<0.1	7.2	22.3	1761	3.20	3.6	1.0	<0.5	18.4	7	<0.1	0.4	0.3	37	0.11	0.056
REP 1193575	QC	0.8	14.2	10.8	56	<0.1	7.4	22.9	1805	3.27	3.7	1.1	<0.5	19.0	7	<0.1	0.3	0.3	38	0.10	0.056
1197821	Soil	1.0	72.0	7.6	64	<0.1	20.6	12.4	581	3.20	8.3	0.7	3.8	4.4	26	<0.1	0.6	0.1	73	0.29	0.022
REP 1197821	QC	1.1	69.9	7.6	61	<0.1	19.5	11.9	564	3.01	8.0	0.7	3.4	4.4	25	<0.1	0.6	0.1	72	0.28	0.021
1197824	Soil	0.5	33.2	64.7	57	<0.1	26.1	13.7	655	2.95	7.0	1.0	5.0	4.0	48	<0.1	0.4	0.2	73	0.53	0.025
REP 1197824	QC	0.5	34.6	65.9	60	<0.1	28.5	14.3	678	3.07	7.6	1.0	4.3	4.0	49	0.1	0.5	0.2	77	0.54	0.025
1196733	Soil	0.8	14.5	19.2	121	0.2	15.8	9.3	674	2.61	4.9	0.7	0.8	3.8	23	0.5	0.3	0.1	56	0.28	0.064
REP 1196733	QC	0.9	16.3	21.1	133	0.2	17.7	10.2	721	2.80	5.2	0.7	<0.5	4.1	24	0.5	0.3	0.1	60	0.32	0.065
1194556	Soil	4.3	43.2	30.1	69	0.6	36.4	12.8	318	3.15	36.4	1.2	4.9	5.8	37	0.5	3.1	0.3	64	0.47	0.054
REP 1194556	QC	4.5	46.4	29.4	74	0.6	37.2	12.7	324	3.19	37.5	1.2	6.3	5.9	38	0.4	3.2	0.3	62	0.49	0.053
1194557	Soil	2.0	49.4	20.3	85	0.1	42.2	16.2	504	4.54	107.9	0.9	4.3	5.2	47	0.2	2.5	0.3	85	0.82	0.065
REP 1194557	QC	2.1	49.5	19.9	83	0.1	42.4	15.6	500	4.38	103.7	0.9	4.8	5.1	46	0.3	2.4	0.2	85	0.80	0.066
Reference Materials																					
STD DS8	Standard	13.3	122.5	132.9	336	1.8	43.1	8.2	664	2.67	28.1	3.0	118.8	7.4	75	2.3	6.3	7.4	46	0.72	0.090
STD DS8	Standard	15.1	123.9	134.3	339	1.9	43.7	8.7	669	2.76	28.8	3.0	125.6	7.4	76	2.5	6.4	7.5	48	0.74	0.087
STD DS8	Standard	12.7	119.3	127.7	329	1.9	40.7	8.0	621	2.45	26.9	2.8	122.4	6.3	64	2.5	5.7	6.9	44	0.64	0.083
STD DS8	Standard	13.1	118.2	124.2	329	1.9	41.7	8.2	608	2.44	26.3	2.7	109.0	6.1	65	2.4	5.6	6.8	43	0.64	0.081
STD DS8	Standard	14.7	125.1	141.1	332	1.8	44.8	8.8	670	2.65	25.4	3.1	137.0	8.0	58	2.5	5.0	5.9	46	0.74	0.082
STD DS8	Standard	14.5	118.4	129.4	333	1.9	40.7	8.5	631	2.56	25.5	3.0	132.1	7.3	60	2.5	4.7	5.6	46	0.71	0.083
STD DS8	Standard	13.0	115.4	138.1	331	1.8	39.3	7.9	611	2.49	25.5	2.8	122.4	6.9	54	2.4	5.2	5.6	43	0.66	0.082
STD DS8	Standard	12.7	113.4	131.4	318	1.7	38.5	7.5	584	2.41	25.6	2.8	126.5	6.9	55	2.2	4.9	5.4	40	0.66	0.080
STD DS8	Standard	13.2	122.5	129.0	349	2.0	41.1	8.0	675	2.68	30.3	2.9	117.4	6.8	69	2.5	6.6	7.0	44	0.71	0.086
STD DS8	Standard	13.5	122.4	125.4	345	1.9	41.8	8.2	647	2.70	29.2	2.8	121.0	6.9	70	2.7	6.1	6.6	44	0.69	0.080
STD DS8	Standard	14.1	118.4	124.1	331	1.8	40.2	7.5	618	2.45	25.2	2.8	108.9	6.9	67	2.3	5.6	6.3	46	0.67	0.078
STD DS8	Standard	13.7	123.0	121.2	333	1.8	42.5	8.5	616	2.47	26.7	2.8	114.0	7.0	65	2.5	5.7	6.4	46	0.63	0.076
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08

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Project: HEN  
Report Date: July 19, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11002663.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1193556	Soil	12	240	0.52	226	0.007	3	0.99	0.005	0.07	0.1	0.07	26.8	<0.1	<0.05	3	<0.5	<0.2
REP 1193556	QC	12	237	0.53	230	0.006	2	0.96	0.005	0.07	0.1	0.05	26.8	<0.1	<0.05	3	0.6	<0.2
1193575	Soil	20	12	0.54	123	0.081	<1	1.81	0.006	0.36	0.2	<0.01	3.5	0.3	<0.05	6	<0.5	<0.2
REP 1193575	QC	20	12	0.56	123	0.083	<1	1.85	0.007	0.36	0.2	<0.01	3.2	0.3	<0.05	6	<0.5	<0.2
1197821	Soil	10	35	0.71	333	0.093	<1	1.77	0.013	0.10	0.1	0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
REP 1197821	QC	10	34	0.72	320	0.091	<1	1.65	0.014	0.10	0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
1197824	Soil	14	38	0.87	227	0.050	<1	1.82	0.013	0.06	<0.1	0.03	7.0	<0.1	<0.05	7	<0.5	<0.2
REP 1197824	QC	15	40	0.92	245	0.053	<1	1.81	0.014	0.06	<0.1	0.03	7.3	<0.1	<0.05	7	<0.5	<0.2
1196733	Soil	8	29	0.41	340	0.059	<1	1.59	0.012	0.15	<0.1	0.01	4.1	<0.1	<0.05	6	<0.5	<0.2
REP 1196733	QC	8	31	0.43	357	0.063	<1	1.63	0.012	0.16	<0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
1194556	Soil	19	32	0.46	1270	0.043	2	1.60	0.016	0.07	0.1	0.10	4.2	<0.1	<0.05	4	0.9	<0.2
REP 1194556	QC	20	33	0.48	1307	0.044	2	1.64	0.019	0.07	0.1	0.09	4.6	<0.1	<0.05	4	<0.5	<0.2
1194557	Soil	17	50	0.78	657	0.074	2	2.49	0.029	0.14	0.2	0.07	7.0	<0.1	<0.05	8	<0.5	<0.2
REP 1194557	QC	17	49	0.77	655	0.076	2	2.42	0.028	0.14	0.2	0.08	7.0	<0.1	<0.05	8	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	131	0.66	298	0.130	3	0.98	0.087	0.45	3.1	0.21	2.2	5.7	0.18	5	5.2	5.4
STD DS8	Standard	15	132	0.68	288	0.133	3	1.02	0.090	0.46	3.1	0.19	2.1	5.8	0.17	5	6.1	5.1
STD DS8	Standard	13	123	0.61	259	0.117	4	0.88	0.084	0.42	3.2	0.20	1.9	5.5	0.19	5	5.3	4.9
STD DS8	Standard	13	121	0.61	260	0.117	3	0.89	0.088	0.43	2.8	0.18	2.0	5.4	0.18	5	4.8	4.7
STD DS8	Standard	13	129	0.63	296	0.126	3	0.96	0.088	0.43	3.3	0.25	2.2	5.9	0.18	5	5.5	5.0
STD DS8	Standard	12	126	0.62	281	0.120	3	0.93	0.083	0.43	3.2	0.23	2.2	5.6	0.13	5	5.6	4.8
STD DS8	Standard	10	117	0.62	271	0.103	3	0.90	0.085	0.41	2.9	0.23	1.8	5.5	0.19	5	5.2	5.2
STD DS8	Standard	11	114	0.59	266	0.104	2	0.87	0.082	0.40	3.0	0.19	1.8	4.9	0.17	5	5.4	4.8
STD DS8	Standard	14	125	0.64	277	0.122	2	0.93	0.080	0.46	3.0	0.22	2.2	5.7	0.21	5	5.5	5.4
STD DS8	Standard	14	122	0.60	289	0.120	3	0.85	0.079	0.40	3.0	0.19	2.2	5.3	0.15	5	6.0	5.3
STD DS8	Standard	15	123	0.63	279	0.133	2	0.96	0.090	0.42	3.1	0.21	2.6	5.5	0.17	5	5.5	4.4
STD DS8	Standard	15	124	0.62	277	0.127	2	0.93	0.085	0.42	3.2	0.18	2.3	5.5	0.16	5	5.3	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5

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**Project:** HEN

**Report Date:** July 19, 2011

**Page:** 2 of 2 **Part** 1

QUALITY CONTROL REPORT

VAN11002663.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.03	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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**Project:** HEN

**Report Date:** July 19, 2011

**Page:** 2 of 2 **Part** 2

QUALITY CONTROL REPORT

VAN11002663.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 08, 2011
Report Date: July 19, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000179A.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID: HEN01
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



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Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000179A.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1192041	Soil	0.9	23.6	9.0	49	<0.1	22.1	9.9	194	2.60	9.2	0.5	11.0	4.4	14	<0.1	0.5	0.1	59	0.12	0.012
1192018	Soil	1.0	12.1	8.2	48	<0.1	12.0	12.6	609	3.20	5.1	0.5	7.1	4.0	10	<0.1	0.3	0.1	85	0.12	0.034
1192224	Soil	1.4	66.3	7.4	47	<0.1	5.9	4.3	341	3.87	2.9	2.2	0.7	11.4	54	<0.1	0.2	0.4	74	0.13	0.030
1192037	Soil	1.0	38.2	8.5	73	<0.1	28.4	12.6	297	3.27	8.6	0.5	2.4	3.5	24	<0.1	0.5	0.2	64	0.23	0.029
1192223	Soil	1.5	71.4	9.3	38	<0.1	8.7	4.9	212	3.20	4.1	1.3	1.4	12.3	34	<0.1	0.2	0.4	41	0.12	0.023
1192048	Soil	0.8	20.0	3.9	57	<0.1	7.9	8.8	544	4.29	3.7	1.6	0.9	13.3	13	<0.1	0.2	<0.1	75	0.10	0.021
1192039	Soil	4.4	140.2	21.8	54	<0.1	7.2	5.2	172	3.03	4.2	1.3	1.2	10.4	48	<0.1	0.2	0.2	49	0.09	0.025
1192047	Soil	0.6	20.6	3.5	56	<0.1	7.5	8.2	510	4.11	3.4	1.6	<0.5	12.9	12	<0.1	0.1	<0.1	71	0.09	0.018
1192040	Soil	1.1	27.5	10.4	47	<0.1	14.1	6.6	229	2.42	6.6	1.5	2.1	4.4	24	<0.1	0.3	0.1	52	0.14	0.016
1192050	Soil	0.3	58.7	3.9	77	<0.1	7.9	18.6	821	4.32	2.1	0.4	0.5	5.5	26	<0.1	<0.1	<0.1	109	0.27	0.028
1192049	Soil	0.5	16.8	4.5	69	<0.1	10.3	13.3	614	3.67	3.7	0.4	0.7	3.7	14	<0.1	0.2	<0.1	101	0.17	0.014
1192221	Soil	0.7	37.8	6.3	50	<0.1	19.9	11.6	285	3.25	4.5	0.5	1.9	2.7	31	<0.1	0.3	<0.1	79	0.26	0.012
1192034	Soil	0.4	39.3	3.2	28	<0.1	15.6	10.6	202	2.12	3.5	0.3	<0.5	2.6	29	<0.1	0.2	<0.1	59	0.23	0.019
1192030	Soil	0.3	15.0	12.7	65	<0.1	5.9	9.3	683	3.42	1.8	0.8	0.5	11.5	21	<0.1	<0.1	0.2	63	0.25	0.037
1192232	Soil	0.5	37.0	4.7	30	<0.1	19.6	15.0	213	2.30	5.6	0.3	<0.5	1.7	15	<0.1	0.3	<0.1	72	0.38	0.041
1192032	Soil	0.3	24.7	4.2	34	<0.1	24.1	13.5	220	2.16	3.6	0.4	<0.5	3.2	51	<0.1	0.2	<0.1	61	0.45	0.015
1192035	Soil	0.9	23.4	9.4	46	<0.1	25.0	12.4	277	2.96	8.7	0.5	2.3	3.4	14	<0.1	0.5	0.1	72	0.17	0.024
1192229	Soil	0.3	20.5	7.3	65	<0.1	11.3	11.1	739	3.67	5.1	0.4	<0.5	7.6	26	<0.1	0.2	<0.1	79	0.31	0.058
1192031	Soil	1.0	23.2	75.9	85	0.2	21.6	14.8	855	3.90	6.0	0.9	1.2	8.5	33	<0.1	0.3	0.6	91	0.37	0.041
1192231	Soil	0.3	122.1	4.4	41	<0.1	25.9	20.9	338	2.72	3.6	0.2	1.1	0.9	32	<0.1	<0.1	<0.1	85	0.84	0.202
1192029	Soil	0.5	16.4	10.6	95	<0.1	22.3	10.0	302	2.41	5.5	0.6	1.4	4.7	64	<0.1	0.2	<0.1	64	0.42	0.069
1192045	Soil	0.8	16.1	7.8	63	<0.1	7.5	7.1	739	3.77	5.1	1.0	<0.5	7.2	30	<0.1	0.1	<0.1	53	0.23	0.027
1192225	Soil	0.6	22.9	5.0	55	<0.1	11.9	9.5	501	3.15	4.4	1.0	<0.5	10.9	17	<0.1	0.2	<0.1	60	0.12	0.011
1192036	Soil	1.2	33.9	8.6	52	<0.1	20.6	11.7	302	3.06	5.4	0.4	1.3	2.2	22	<0.1	0.3	<0.1	82	0.40	0.035
1192033	Soil	0.8	18.8	8.2	39	<0.1	20.1	10.9	220	2.80	6.7	0.3	3.1	2.4	17	<0.1	0.3	0.2	73	0.15	0.018
1192044	Soil	0.5	14.8	5.2	68	<0.1	6.8	9.1	647	3.58	2.3	1.8	<0.5	17.1	21	<0.1	<0.1	<0.1	59	0.14	0.009
1192038	Soil	1.1	23.7	7.1	67	<0.1	10.9	11.9	487	3.39	4.0	0.4	<0.5	1.6	15	0.1	0.2	<0.1	91	0.42	0.071
1192042	Soil	1.0	74.5	8.5	52	<0.1	5.2	4.1	364	3.82	2.8	2.5	0.8	11.9	57	<0.1	0.2	0.5	80	0.13	0.028
1192046	Soil	0.8	22.0	7.2	71	<0.1	12.9	9.5	651	3.89	5.7	1.6	0.7	12.1	10	<0.1	0.2	<0.1	78	0.08	0.017
1192043	Soil	15.7	87.3	9.9	70	<0.1	7.5	16.0	765	4.57	2.4	1.2	<0.5	7.2	13	<0.1	0.1	0.3	115	0.17	0.029

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1192041	Soil	8	36	0.49	170	0.074	<1	1.74	0.009	0.05	0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1192018	Soil	8	24	0.74	176	0.110	<1	1.87	0.008	0.35	0.1	0.03	2.7	0.1	<0.05	7	<0.5	<0.2
1192224	Soil	19	14	0.78	184	0.105	<1	2.10	0.018	0.31	<0.1	0.02	3.6	0.2	0.18	7	<0.5	<0.2
1192037	Soil	8	55	0.59	196	0.060	<1	1.95	0.013	0.04	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
1192223	Soil	27	16	0.54	216	0.077	<1	1.51	0.014	0.26	<0.1	0.01	2.6	0.2	0.18	5	<0.5	<0.2
1192048	Soil	24	14	1.09	150	0.197	<1	2.49	0.009	0.96	0.2	<0.01	5.4	0.3	<0.05	9	<0.5	<0.2
1192039	Soil	19	13	0.68	153	0.098	<1	1.91	0.010	0.18	<0.1	0.01	3.1	0.2	<0.05	6	0.8	<0.2
1192047	Soil	20	12	1.07	139	0.192	<1	2.42	0.009	0.95	0.2	0.01	5.1	0.4	<0.05	8	<0.5	<0.2
1192040	Soil	9	24	0.36	134	0.062	<1	1.43	0.009	0.06	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
1192050	Soil	23	14	1.73	268	0.265	<1	2.85	0.009	1.21	0.1	0.01	2.0	0.4	<0.05	9	<0.5	<0.2
1192049	Soil	8	18	1.31	163	0.203	<1	2.58	0.010	0.63	<0.1	0.02	3.4	0.3	<0.05	8	<0.5	<0.2
1192221	Soil	9	36	0.74	198	0.114	<1	2.24	0.017	0.06	<0.1	0.02	5.2	0.1	<0.05	7	<0.5	<0.2
1192034	Soil	11	32	0.84	129	0.137	<1	1.83	0.019	0.06	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
1192030	Soil	38	9	1.21	144	0.199	<1	2.18	0.009	0.93	<0.1	<0.01	5.1	0.3	<0.05	10	<0.5	<0.2
1192232	Soil	4	28	0.89	112	0.104	<1	1.84	0.038	0.05	0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
1192032	Soil	11	50	1.00	157	0.135	<1	1.98	0.019	0.05	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
1192035	Soil	8	39	0.53	207	0.068	<1	2.24	0.012	0.06	0.1	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2
1192229	Soil	17	22	1.30	138	0.244	<1	2.31	0.011	0.54	0.1	0.01	7.0	0.3	<0.05	10	<0.5	<0.2
1192031	Soil	20	35	1.24	241	0.120	<1	2.67	0.009	0.77	0.2	0.01	6.0	0.4	<0.05	8	<0.5	<0.2
1192231	Soil	2	62	1.38	208	0.120	<1	1.90	0.030	0.43	<0.1	0.01	3.0	0.1	<0.05	5	<0.5	<0.2
1192029	Soil	15	36	1.10	149	0.116	<1	2.01	0.008	0.22	<0.1	<0.01	2.1	0.2	<0.05	9	<0.5	<0.2
1192045	Soil	47	15	1.09	141	0.159	<1	2.38	0.009	0.81	0.1	0.01	8.2	0.4	<0.05	9	<0.5	<0.2
1192225	Soil	14	18	0.79	116	0.178	<1	2.35	0.010	0.59	<0.1	0.01	2.8	0.4	<0.05	7	<0.5	<0.2
1192036	Soil	6	38	0.60	95	0.117	<1	1.98	0.035	0.05	0.1	0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
1192033	Soil	7	37	0.64	189	0.094	<1	2.32	0.008	0.06	0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
1192044	Soil	28	12	0.97	122	0.184	<1	2.36	0.009	0.82	<0.1	<0.01	3.4	0.5	<0.05	9	<0.5	<0.2
1192038	Soil	6	18	0.81	209	0.133	<1	1.80	0.035	0.51	<0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
1192042	Soil	19	14	0.88	177	0.121	<1	2.53	0.015	0.36	<0.1	0.02	4.4	0.3	0.12	7	0.6	<0.2
1192046	Soil	11	19	1.03	130	0.194	<1	2.83	0.008	0.71	<0.1	<0.01	6.5	0.5	<0.05	9	<0.5	<0.2
1192043	Soil	7	15	1.51	149	0.165	<1	2.78	0.008	1.11	0.1	0.01	5.4	0.3	<0.05	10	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1192222	Soil		2.1	29.3	11.1	90	0.1	17.9	12.7	552	3.55	7.4	0.4	2.3	2.3	17	0.1	0.2	0.1	90	0.24	0.064
1196835	Soil		1.2	15.8	12.5	68	<0.1	11.3	4.5	359	2.90	5.1	0.6	0.9	2.4	41	<0.1	0.3	0.2	48	0.12	0.016
1196808	Soil		1.3	19.8	9.1	71	<0.1	25.0	11.3	282	3.04	5.5	0.5	<0.5	5.7	13	0.1	0.4	0.1	66	0.20	0.012
1196801	Soil		1.2	12.8	10.4	60	<0.1	20.9	8.1	685	2.63	5.3	0.4	3.2	4.1	14	<0.1	0.4	0.1	56	0.15	0.026
1196834	Soil		1.6	18.6	26.8	74	<0.1	15.3	4.4	432	3.04	4.5	0.6	1.0	3.5	55	<0.1	0.4	0.2	34	0.18	0.011
1196832	Soil		1.5	15.5	9.8	67	<0.1	21.3	8.7	624	2.82	7.7	0.4	4.3	3.3	15	0.2	0.5	0.2	54	0.14	0.027
1196819	Soil		1.2	13.2	9.3	42	<0.1	14.8	8.2	238	2.57	5.9	0.3	2.0	2.3	15	<0.1	0.4	0.2	64	0.15	0.024
1196811	Soil		1.0	34.3	9.3	58	0.3	28.9	11.0	341	2.94	6.0	0.8	1.6	8.5	27	<0.1	0.4	0.1	55	0.17	0.024
1196807	Soil		2.7	47.5	38.3	121	0.3	36.9	10.4	266	3.49	5.7	0.9	1.3	3.8	35	0.2	0.4	0.5	171	0.17	0.030
1196827	Soil		0.9	30.2	7.5	110	0.1	27.0	10.4	376	3.65	4.7	1.3	1.7	7.2	32	<0.1	0.3	<0.1	83	0.30	0.072
1196805	Soil		1.0	43.2	8.2	169	<0.1	17.0	16.4	361	3.73	4.3	0.5	1.6	3.9	30	0.5	0.3	0.1	112	0.18	0.027
1196826	Soil		4.1	105.1	37.2	83	<0.1	30.5	10.4	288	4.03	4.7	1.5	2.8	8.5	30	<0.1	0.4	0.3	66	0.13	0.035
1196833	Soil		1.3	22.6	12.0	92	0.1	26.2	9.8	548	3.01	7.9	0.5	2.4	4.6	19	0.2	0.5	0.2	60	0.15	0.023
1196831	Soil		1.2	35.4	14.0	54	0.4	16.9	5.8	190	2.81	5.1	0.6	3.0	6.0	25	<0.1	0.3	0.2	54	0.17	0.037
1196802	Soil		1.4	16.4	41.6	64	<0.1	18.0	6.4	230	2.35	6.5	0.4	3.1	3.0	19	<0.1	0.4	0.3	47	0.10	0.020
1196823	Soil		1.2	71.0	31.7	202	0.1	14.7	14.9	874	7.49	3.3	0.8	0.6	4.0	38	0.3	0.2	0.3	123	0.20	0.036
1196813	Soil		10.9	39.3	14.4	114	0.2	23.3	8.3	171	3.01	5.6	1.2	0.5	4.3	23	0.2	0.3	0.1	71	0.07	0.047
1196815	Soil		1.4	20.6	9.7	57	<0.1	28.3	10.4	384	2.73	8.3	0.5	1.8	4.0	22	0.1	0.6	0.2	61	0.27	0.033
1196809	Soil		1.3	22.3	13.3	74	0.1	18.7	8.4	505	3.53	10.1	1.0	1.8	9.6	13	<0.1	0.3	0.2	59	0.12	0.022
1196828	Soil		1.4	24.6	15.6	62	0.2	27.2	9.0	351	2.66	8.9	0.6	1.7	4.1	21	0.1	0.6	0.2	57	0.17	0.019
1197061	Soil		1.2	23.3	11.4	53	<0.1	23.0	9.7	325	2.83	9.1	1.0	1.0	4.9	19	<0.1	0.5	0.2	65	0.18	0.018
1197063	Soil		0.9	43.6	7.2	87	<0.1	15.2	11.6	475	4.61	4.8	0.9	1.3	4.8	20	<0.1	0.4	0.1	120	0.23	0.015
1197065	Soil		0.9	22.9	7.6	64	<0.1	16.2	7.3	312	2.54	5.2	0.7	2.5	3.4	15	<0.1	0.3	0.1	47	0.18	0.025
1197072	Soil		1.4	46.5	8.8	67	0.1	22.9	13.7	506	3.22	6.1	0.3	1.1	2.4	21	<0.1	0.4	0.1	92	0.28	0.027
1197076	Soil		1.3	21.6	9.9	61	0.2	24.9	11.4	397	3.03	7.2	0.6	3.9	3.5	19	0.1	0.5	0.2	61	0.29	0.020
1197059	Soil		1.2	18.4	10.5	57	<0.1	19.5	7.5	264	2.66	6.7	0.5	1.8	3.5	16	<0.1	0.4	0.1	53	0.15	0.024
1197074	Soil		0.7	21.0	6.9	93	0.1	14.8	7.9	320	3.83	5.3	0.5	1.3	4.5	21	<0.1	0.3	0.1	42	0.29	0.028
1197077	Soil		11.5	56.5	12.0	104	0.1	35.3	13.3	466	4.39	2.8	1.4	3.5	14.1	48	0.1	0.2	0.1	47	0.16	0.057
1197070	Soil		0.7	37.3	8.9	126	<0.1	12.5	6.5	585	3.93	2.4	0.6	<0.5	2.8	15	<0.1	0.2	0.1	63	0.19	0.046
1197073	Soil		1.0	20.7	9.6	58	0.2	23.6	9.4	255	2.71	7.9	0.4	1.3	3.9	22	<0.1	0.5	0.1	62	0.24	0.032

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.001	0.01	0.1	0.01	0.01	0.1	0.05	1	0.5	0.2	0.2
1192222	Soil	8	32	0.82	177	0.111	<1	2.05	0.014	0.38	<0.1	0.01	3.3	0.1	<0.05	7	<0.5	<0.2
1196835	Soil	10	19	0.33	133	0.117	<1	1.45	0.008	0.18	<0.1	0.01	5.1	0.1	<0.05	7	<0.5	<0.2
1196808	Soil	8	46	0.73	168	0.118	<1	2.58	0.014	0.20	<0.1	0.01	3.3	0.3	<0.05	7	<0.5	<0.2
1196801	Soil	10	32	0.40	240	0.062	<1	1.67	0.005	0.14	<0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
1196834	Soil	12	26	0.39	214	0.086	<1	2.07	0.010	0.11	<0.1	0.02	6.9	<0.1	<0.05	7	<0.5	<0.2
1196832	Soil	7	35	0.48	198	0.081	1	1.70	0.008	0.14	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
1196819	Soil	7	27	0.50	211	0.059	2	1.57	0.007	0.06	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1196811	Soil	14	40	0.82	288	0.106	2	2.10	0.010	0.22	<0.1	0.02	2.9	0.2	<0.05	6	<0.5	<0.2
1196807	Soil	11	66	0.78	197	0.106	2	2.31	0.010	0.06	0.1	0.01	4.9	0.1	<0.05	8	1.1	<0.2
1196827	Soil	30	25	0.94	317	0.113	2	2.21	0.011	0.41	<0.1	0.01	4.5	0.2	<0.05	8	<0.5	<0.2
1196805	Soil	7	27	0.94	222	0.160	1	2.23	0.016	0.50	0.1	0.01	4.0	0.1	<0.05	7	<0.5	<0.2
1196826	Soil	28	62	0.57	315	0.106	1	1.59	0.011	0.42	<0.1	0.01	6.5	0.3	0.08	7	1.1	<0.2
1196833	Soil	10	42	0.55	250	0.095	1	1.80	0.008	0.18	0.1	0.02	4.0	0.1	<0.05	6	<0.5	<0.2
1196831	Soil	23	36	0.60	229	0.074	1	1.73	0.020	0.21	<0.1	0.02	2.9	0.2	0.29	5	0.6	<0.2
1196802	Soil	6	31	0.41	131	0.062	<1	1.46	0.006	0.10	0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
1196823	Soil	10	80	1.97	1011	0.240	1	3.29	0.016	1.61	<0.1	0.02	18.6	0.6	<0.05	15	<0.5	<0.2
1196813	Soil	17	31	0.46	236	0.058	<1	1.84	0.009	0.15	<0.1	0.01	2.5	0.2	0.08	6	1.5	<0.2
1196815	Soil	11	45	0.55	234	0.089	2	1.55	0.010	0.18	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
1196809	Soil	7	41	0.70	196	0.117	<1	2.13	0.006	0.58	<0.1	<0.01	3.1	0.4	<0.05	7	<0.5	<0.2
1196828	Soil	12	39	0.46	220	0.065	1	1.55	0.009	0.06	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1197061	Soil	15	43	0.49	236	0.074	1	1.98	0.007	0.04	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1197063	Soil	28	28	0.83	411	0.198	<1	2.53	0.015	0.47	<0.1	0.02	11.5	0.2	<0.05	8	<0.5	<0.2
1197065	Soil	14	27	0.47	158	0.078	1	1.47	0.009	0.11	0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
1197072	Soil	6	35	0.74	343	0.113	2	2.12	0.014	0.18	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
1197076	Soil	10	40	0.62	260	0.103	<1	1.80	0.011	0.09	<0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
1197059	Soil	10	34	0.45	162	0.068	<1	1.76	0.008	0.11	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
1197074	Soil	15	23	0.69	281	0.097	<1	1.88	0.010	0.24	<0.1	0.02	5.4	0.1	<0.05	7	<0.5	<0.2
1197077	Soil	56	44	0.64	342	0.124	1	1.83	0.009	0.58	<0.1	0.01	3.0	0.4	0.08	6	<0.5	<0.2
1197070	Soil	8	25	0.72	310	0.166	<1	1.97	0.008	0.91	<0.1	0.01	10.2	0.3	<0.05	8	<0.5	<0.2
1197073	Soil	9	38	0.49	204	0.074	1	1.77	0.008	0.09	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1197080	Soil	3.0	45.2	10.8	79	0.2	34.0	7.5	182	2.52	5.8	1.4	2.7	5.6	30	0.2	0.3	0.1	64	0.20	0.034
1197071	Soil	1.0	14.9	9.3	58	0.2	19.2	9.6	2022	2.23	4.6	0.3	1.9	2.2	21	0.2	0.4	0.1	48	0.24	0.024
1197085	Soil	0.5	57.0	4.4	37	<0.1	19.8	15.3	289	2.36	3.8	0.3	<0.5	2.0	38	<0.1	0.2	<0.1	60	0.45	0.045
1197087	Soil	1.1	25.3	13.1	67	<0.1	21.2	11.0	392	2.99	5.6	0.5	0.8	3.1	29	<0.1	0.4	0.2	78	0.31	0.021
1197086	Soil	0.6	14.3	11.7	68	<0.1	15.5	16.3	710	3.73	13.3	1.1	1.5	4.5	171	0.1	0.7	0.1	89	0.82	0.071
1197066	Soil	1.7	33.3	11.2	80	<0.1	17.5	11.1	353	4.08	10.0	0.9	<0.5	7.9	14	<0.1	0.4	0.1	71	0.15	0.026
1197088	Soil	1.1	44.2	8.8	88	<0.1	16.4	15.0	959	4.74	3.1	0.4	1.1	2.3	27	<0.1	0.1	<0.1	131	0.40	0.063
1197093	Soil	1.0	16.6	11.3	76	<0.1	21.3	11.4	824	3.24	6.6	0.5	0.9	4.1	23	0.1	0.3	0.1	66	0.30	0.045
1197091	Soil	0.6	98.2	29.5	45	<0.1	20.1	16.7	416	2.90	3.0	0.4	2.5	1.6	38	<0.1	0.2	<0.1	78	0.77	0.029
1197092	Soil	0.6	102.6	31.2	46	<0.1	21.1	17.5	429	3.06	3.4	0.4	1.3	1.6	40	<0.1	0.2	<0.1	83	0.79	0.030
1197089	Soil	1.0	40.0	10.2	59	<0.1	25.2	11.7	329	3.07	7.9	0.8	1.5	4.4	24	<0.1	0.5	0.2	82	0.32	0.041
1197090	Soil	0.6	64.7	7.9	54	<0.1	33.1	16.6	363	3.25	4.6	0.9	0.6	3.5	43	<0.1	0.3	<0.1	82	0.62	0.052
1197084	Soil	1.1	30.1	46.6	72	<0.1	25.5	12.8	487	3.53	9.1	0.9	1.8	4.1	53	0.1	0.5	0.4	71	0.55	0.062
1197082	Soil	0.9	35.7	9.5	62	0.1	27.8	12.3	373	3.21	9.5	1.3	3.5	4.6	53	<0.1	0.5	0.2	77	0.60	0.045
1197079	Soil	2.3	26.8	10.7	83	0.2	21.4	8.3	225	2.78	6.9	0.7	1.6	5.2	19	0.2	0.4	0.2	62	0.14	0.031
1197060	Soil	1.2	13.1	12.6	50	0.1	14.2	7.3	554	2.03	4.8	1.0	2.6	2.9	19	<0.1	0.3	0.1	41	0.17	0.027
1197078	Soil	2.6	42.0	9.0	61	0.4	16.1	4.4	120	1.99	3.3	0.9	1.5	5.8	29	<0.1	0.2	0.2	53	0.23	0.037
1197075	Soil	0.7	23.5	4.0	84	<0.1	196.5	32.1	362	4.30	2.2	0.2	<0.5	0.7	31	<0.1	0.1	<0.1	83	0.85	0.128
1197067	Soil	0.8	20.1	6.7	51	<0.1	9.7	13.9	482	3.95	4.4	0.5	<0.5	3.5	15	<0.1	0.2	<0.1	130	0.23	0.029
1197062	Soil	1.7	17.3	10.3	64	<0.1	20.9	8.8	525	3.00	8.9	0.5	0.7	3.1	15	0.1	0.5	0.2	63	0.18	0.035
1197081	Soil	2.4	117.0	15.3	310	0.5	21.3	13.6	549	6.88	4.5	0.7	5.0	2.7	39	0.5	0.3	0.4	138	0.84	0.074
1197083	Soil	1.0	24.9	9.6	62	<0.1	21.9	12.0	348	3.12	9.3	0.6	<0.5	3.9	30	<0.1	0.5	0.1	72	0.44	0.042
1197068	Soil	1.2	25.8	13.5	80	0.1	25.9	9.7	444	3.44	9.5	0.9	2.8	10.7	23	<0.1	0.6	0.2	71	0.25	0.025
1197064	Soil	1.4	26.6	9.2	74	<0.1	22.6	9.5	369	3.16	8.1	0.8	2.3	5.3	18	<0.1	0.5	0.1	67	0.19	0.017
1192102	Soil	0.9	30.6	14.9	84	0.1	21.7	13.3	626	3.49	7.7	0.5	1.1	3.4	38	0.2	0.5	0.2	69	0.76	0.054
1192112	Soil	1.0	87.9	53.0	59	0.2	27.4	16.0	424	3.29	7.9	0.5	1.9	3.9	29	<0.1	0.5	0.6	83	0.65	0.035
1197095	Soil	1.0	18.9	11.6	95	<0.1	22.9	14.6	997	3.75	6.2	0.6	<0.5	5.2	24	<0.1	0.4	0.1	82	0.35	0.054
1197069	Soil	1.1	18.8	9.8	55	<0.1	22.0	9.0	345	2.83	8.5	0.7	4.4	5.6	17	<0.1	0.5	0.1	64	0.17	0.019
1192121	Soil	0.6	21.5	7.1	57	<0.1	27.8	16.9	557	3.91	6.7	0.4	1.0	3.3	36	<0.1	0.5	0.1	126	0.84	0.055
1192118	Soil	0.4	19.2	3.9	48	<0.1	22.2	23.3	377	4.71	3.3	0.8	1.0	3.0	19	<0.1	0.2	<0.1	146	0.55	0.084

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197080	Soil	20	39	0.53	232	0.071	2	1.29	0.011	0.17	<0.1	0.02	4.2	0.1	0.06	4	1.0	<0.2
1197071	Soil	8	25	0.36	354	0.051	1	1.33	0.011	0.07	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
1197085	Soil	6	24	1.03	141	0.115	<1	2.02	0.022	0.13	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
1197087	Soil	10	35	0.59	268	0.099	2	1.70	0.013	0.13	<0.1	0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
1197086	Soil	18	44	0.88	157	0.126	<1	1.81	0.013	0.06	<0.1	0.03	15.5	<0.1	<0.05	10	<0.5	<0.2
1197066	Soil	10	27	0.58	267	0.174	<1	2.59	0.010	0.52	<0.1	0.01	6.0	0.3	<0.05	8	<0.5	<0.2
1197088	Soil	8	37	1.25	459	0.237	<1	2.66	0.013	0.95	<0.1	0.02	8.9	0.4	<0.05	10	<0.5	<0.2
1197093	Soil	9	34	0.68	270	0.123	2	1.73	0.018	0.39	0.1	0.01	4.1	0.1	<0.05	7	<0.5	<0.2
1197091	Soil	6	30	0.86	186	0.120	<1	1.83	0.066	0.18	<0.1	<0.01	6.9	<0.1	<0.05	5	<0.5	<0.2
1197092	Soil	7	32	0.92	200	0.132	1	1.95	0.066	0.20	<0.1	0.02	7.5	<0.1	<0.05	5	<0.5	<0.2
1197089	Soil	12	34	0.66	308	0.107	1	1.64	0.012	0.19	0.1	0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
1197090	Soil	17	74	1.19	258	0.189	<1	2.15	0.021	0.44	<0.1	0.02	6.3	0.1	<0.05	7	<0.5	<0.2
1197084	Soil	13	39	0.63	182	0.112	<1	2.14	0.013	0.21	0.1	0.02	7.4	<0.1	<0.05	8	<0.5	<0.2
1197082	Soil	15	45	0.81	250	0.125	2	2.14	0.010	0.14	0.2	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
1197079	Soil	19	36	0.52	263	0.068	<1	1.49	0.011	0.21	0.1	<0.01	2.1	0.2	0.20	5	0.8	<0.2
1197060	Soil	13	26	0.35	281	0.053	<1	1.16	0.008	0.11	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
1197078	Soil	21	30	0.40	213	0.040	<1	0.99	0.013	0.20	<0.1	0.02	2.7	0.2	0.27	3	1.7	<0.2
1197075	Soil	4	255	2.28	749	0.167	<1	2.32	0.029	0.54	<0.1	<0.01	4.6	0.4	<0.05	8	<0.5	<0.2
1197067	Soil	6	32	1.09	348	0.236	<1	2.29	0.014	0.80	<0.1	<0.01	5.1	0.3	<0.05	9	<0.5	<0.2
1197062	Soil	9	36	0.46	167	0.075	<1	1.89	0.008	0.13	0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
1197081	Soil	10	32	1.80	1364	0.067	2	3.16	0.012	0.23	<0.1	0.07	11.2	<0.1	<0.05	11	1.6	<0.2
1197083	Soil	9	36	0.62	175	0.094	<1	2.03	0.011	0.22	0.1	0.02	5.4	<0.1	<0.05	6	<0.5	<0.2
1197068	Soil	13	40	0.56	251	0.101	<1	2.13	0.010	0.28	0.1	0.02	5.2	0.2	<0.05	7	<0.5	<0.2
1197064	Soil	15	41	0.58	206	0.094	<1	2.13	0.009	0.13	0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
1192102	Soil	14	27	0.67	525	0.078	5	1.72	0.012	0.47	0.1	0.02	8.0	0.1	<0.05	6	0.6	<0.2
1192112	Soil	18	35	0.62	649	0.061	1	1.51	0.018	0.09	0.2	0.04	8.3	<0.1	<0.05	5	0.7	<0.2
1197095	Soil	11	38	0.83	274	0.163	<1	1.99	0.014	0.56	<0.1	0.01	4.9	0.1	<0.05	9	<0.5	<0.2
1197069	Soil	14	38	0.46	201	0.073	<1	1.78	0.009	0.08	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
1192121	Soil	11	47	1.55	455	0.143	2	2.21	0.015	0.55	0.1	0.02	8.3	0.2	<0.05	8	<0.5	<0.2
1192118	Soil	9	42	2.15	620	0.180	1	2.68	0.034	0.65	0.1	0.02	9.6	0.1	<0.05	9	0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1192116	Soil	1.5	67.0	10.8	104	0.2	24.5	12.8	549	4.23	8.6	0.7	0.7	6.3	25	0.1	0.5	0.2	80	0.39	0.032
1192127	Soil	1.1	18.9	6.8	75	<0.1	25.1	27.4	606	5.61	2.8	0.5	<0.5	1.5	25	<0.1	0.2	<0.1	193	0.57	0.075
1192204	Soil	0.2	66.0	16.9	68	<0.1	26.6	30.3	765	4.81	1.9	0.3	0.8	0.8	83	<0.1	0.2	0.1	133	0.74	0.055
1192117	Soil	1.1	22.4	12.7	56	0.1	23.7	12.5	625	3.22	7.6	0.4	<0.5	4.1	21	0.1	0.5	0.2	73	0.35	0.020
1192120	Soil	0.7	30.2	10.0	71	<0.1	24.8	17.0	703	3.66	6.9	0.4	2.6	2.9	31	0.1	0.7	0.1	100	0.66	0.043
1192126	Soil	1.7	43.2	8.8	93	0.3	22.7	14.3	573	4.44	9.8	0.9	0.6	3.8	33	<0.1	0.5	0.1	85	0.37	0.038
1192109	Soil	2.9	89.9	47.5	218	<0.1	26.9	17.8	734	5.83	4.6	1.6	2.4	6.3	20	0.2	1.5	0.3	134	0.35	0.046
1192110	Soil	1.1	41.8	27.5	71	0.1	25.5	15.4	616	4.28	9.2	0.7	2.1	4.7	27	<0.1	0.7	0.3	97	0.51	0.021
1192111	Soil	1.1	34.4	9.8	56	<0.1	29.9	12.3	370	3.06	10.3	0.5	<0.5	4.4	23	<0.1	0.6	0.1	69	0.35	0.047
1192106	Soil	0.4	37.3	57.0	118	0.2	12.0	26.0	1158	6.36	5.5	0.7	<0.5	2.4	29	0.2	0.2	0.5	200	0.96	0.048
1198005	Soil	0.9	74.4	8.7	69	<0.1	24.4	18.5	636	4.11	6.7	0.6	1.9	2.9	30	0.1	0.5	0.1	128	0.64	0.054
1197150	Soil	2.8	25.0	10.1	50	<0.1	18.7	15.6	470	3.75	7.4	1.1	7.1	3.8	31	<0.1	0.4	0.1	73	0.56	0.061
1197149	Soil	1.3	58.3	56.1	128	0.2	25.8	24.5	1494	5.57	4.4	0.8	2.1	2.4	56	0.3	0.8	0.2	163	4.22	0.052
1192119	Soil	1.6	34.1	14.5	198	0.1	17.2	18.2	1174	6.27	7.2	0.7	<0.5	3.6	21	0.4	0.3	0.1	123	0.45	0.040
1198008	Soil	1.9	35.7	7.0	100	<0.1	26.0	18.6	660	5.57	24.7	1.3	<0.5	7.1	21	0.1	0.4	0.1	180	0.54	0.058
1197138	Soil	0.7	11.9	6.9	52	<0.1	13.0	6.8	199	1.97	7.1	0.6	2.6	3.2	23	0.1	0.5	0.1	40	0.36	0.055
1197143	Soil	1.0	21.7	9.3	49	<0.1	18.0	9.2	297	2.55	8.2	1.4	4.4	3.2	30	<0.1	0.5	0.1	53	0.50	0.060
1198006	Soil	0.6	37.3	12.1	52	<0.1	21.8	12.1	596	2.94	7.9	0.5	3.0	2.8	26	<0.1	0.5	0.1	64	0.50	0.052
1198018	Soil	0.5	25.4	6.7	54	0.1	22.1	10.4	369	2.38	8.7	0.5	1.9	2.5	32	<0.1	0.4	0.1	49	0.68	0.057
1197145	Soil	0.8	21.5	7.2	50	<0.1	20.3	8.2	300	2.13	7.4	1.0	18.9	3.3	28	0.1	0.5	0.1	49	0.46	0.066
1196397	Soil	0.7	11.7	6.0	42	<0.1	17.0	13.3	668	2.95	4.4	0.7	2.8	3.2	28	<0.1	0.3	0.1	73	0.56	0.062
1197147	Soil	0.6	14.5	7.9	44	<0.1	21.4	8.3	263	2.31	8.3	0.5	2.3	3.2	21	<0.1	0.5	0.2	51	0.37	0.035
1198019	Soil	0.6	31.1	14.7	51	<0.1	23.4	11.3	420	2.48	9.4	0.5	3.5	2.7	46	0.2	0.5	0.2	58	1.56	0.060
1198016	Soil	0.7	26.4	7.5	59	<0.1	17.9	11.6	380	2.95	7.4	0.6	2.5	3.2	24	<0.1	0.5	0.1	70	0.51	0.055
1197137	Soil	1.0	71.1	2.8	83	<0.1	12.6	24.9	629	5.67	5.0	0.5	0.9	1.9	24	<0.1	0.3	<0.1	136	0.74	0.065
1198015	Soil	0.8	21.4	8.1	46	0.1	25.5	10.0	397	2.35	10.4	0.7	3.6	3.7	25	<0.1	0.6	0.1	49	0.45	0.051
1193177	Soil	1.1	21.3	9.6	75	<0.1	24.7	12.8	433	3.47	10.5	0.9	2.8	6.5	36	<0.1	0.5	<0.1	76	0.43	0.023
1193188	Soil	3.1	93.2	7.6	99	<0.1	12.5	19.4	924	5.04	4.1	2.6	0.7	13.9	27	<0.1	0.3	<0.1	111	0.43	0.066
1197140	Soil	0.6	34.3	6.9	51	0.2	25.2	10.8	434	2.40	9.7	0.5	3.5	2.7	44	0.1	0.5	<0.1	52	1.29	0.069
1197139	Soil	0.5	51.5	4.2	50	<0.1	14.6	12.8	380	2.94	4.6	0.6	1.1	2.1	31	<0.1	0.3	<0.1	82	0.69	0.072

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 Vancouver BC V6C 1H2 Canada

Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1192116	Soil	15	40	0.85	779	0.141	2	2.42	0.010	0.47	0.2	0.02	7.4	0.2	<0.05	9	<0.5	<0.2
1192127	Soil	3	57	1.97	404	0.172	1	2.69	0.022	0.52	<0.1	<0.01	11.9	0.2	<0.05	13	<0.5	<0.2
1192204	Soil	3	29	2.16	475	0.177	<1	2.87	0.035	0.89	<0.1	0.02	8.9	0.3	<0.05	8	<0.5	<0.2
1192117	Soil	12	36	0.59	371	0.095	2	1.50	0.014	0.28	0.1	0.02	7.0	0.1	<0.05	5	<0.5	<0.2
1192120	Soil	11	36	1.00	435	0.108	5	2.02	0.015	0.57	0.1	0.02	8.1	0.2	0.06	7	<0.5	<0.2
1192126	Soil	13	34	0.81	618	0.176	<1	2.15	0.012	0.66	0.1	0.02	6.5	0.2	<0.05	8	0.7	<0.2
1192109	Soil	18	45	0.48	363	0.047	1	1.56	0.010	0.21	0.1	0.03	18.4	0.1	<0.05	7	1.0	<0.2
1192110	Soil	23	33	0.87	261	0.085	2	1.79	0.015	0.19	0.1	0.04	11.0	0.1	<0.05	7	0.9	<0.2
1192111	Soil	16	38	0.57	414	0.100	1	1.52	0.014	0.23	0.2	0.04	5.4	<0.1	<0.05	5	<0.5	<0.2
1192106	Soil	7	37	3.03	169	0.179	2	2.76	0.011	0.30	<0.1	0.04	19.3	0.2	0.05	14	0.6	<0.2
1198005	Soil	11	31	0.87	375	0.139	<1	2.15	0.037	0.24	<0.1	0.03	8.2	<0.1	<0.05	8	<0.5	<0.2
1197150	Soil	15	31	0.69	590	0.075	2	1.56	0.017	0.09	0.1	0.03	8.2	<0.1	<0.05	6	<0.5	<0.2
1197149	Soil	11	29	1.12	396	0.059	2	1.74	0.010	0.33	<0.1	0.06	17.5	0.1	0.13	9	1.1	<0.2
1192119	Soil	11	26	0.79	563	0.129	3	1.97	0.011	0.82	<0.1	0.02	18.3	0.3	<0.05	9	1.1	<0.2
1198008	Soil	11	86	1.49	410	0.271	<1	2.94	0.012	0.38	<0.1	0.05	15.6	0.3	<0.05	13	0.7	<0.2
1197138	Soil	11	22	0.43	223	0.051	1	1.15	0.012	0.06	0.2	0.02	2.1	<0.1	0.06	4	<0.5	<0.2
1197143	Soil	12	26	0.47	406	0.059	2	1.31	0.018	0.04	0.2	0.03	3.8	<0.1	<0.05	4	0.7	<0.2
1198006	Soil	9	20	0.49	280	0.040	2	1.26	0.023	0.05	<0.1	0.03	5.4	<0.1	<0.05	4	<0.5	<0.2
1198018	Soil	11	23	0.62	279	0.055	2	1.15	0.025	0.06	0.2	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
1197145	Soil	11	26	0.47	301	0.058	1	1.11	0.022	0.05	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
1196397	Soil	10	32	0.92	761	0.104	1	1.89	0.025	0.24	<0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
1197147	Soil	9	28	0.47	321	0.043	1	1.52	0.014	0.06	0.2	0.02	2.4	<0.1	<0.05	5	0.5	<0.2
1198019	Soil	11	23	0.70	273	0.057	2	1.15	0.029	0.06	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
1198016	Soil	11	26	0.64	300	0.064	2	1.55	0.021	0.09	0.2	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
1197137	Soil	5	21	1.33	372	0.096	2	2.38	0.026	0.22	<0.1	<0.01	11.4	<0.1	<0.05	9	<0.5	<0.2
1198015	Soil	16	29	0.46	300	0.048	2	1.19	0.019	0.04	0.1	0.03	3.8	<0.1	<0.05	4	0.7	<0.2
1193177	Soil	16	35	0.81	253	0.108	1	2.14	0.013	0.18	<0.1	0.02	5.2	<0.1	<0.05	7	<0.5	<0.2
1193188	Soil	18	21	1.49	260	0.155	2	2.51	0.011	1.04	<0.1	<0.01	6.5	0.2	<0.05	9	<0.5	<0.2
1197140	Soil	11	23	0.68	268	0.067	2	1.16	0.026	0.06	0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
1197139	Soil	7	19	0.87	190	0.083	2	1.34	0.057	0.12	<0.1	0.01	5.3	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179A.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1193175	Soil	1.1	20.1	6.7	95	<0.1	10.0	18.4	986	5.60	5.6	2.1	1.5	15.3	18	<0.1	0.4	<0.1	115	0.50	0.068
1196859	Soil	1.1	14.7	7.6	64	<0.1	22.1	10.3	539	2.56	8.0	0.4	2.9	2.8	28	<0.1	0.5	0.1	62	0.35	0.030
1196546	Soil	1.1	17.7	8.7	71	<0.1	19.7	16.8	515	2.68	9.6	0.8	1.0	3.7	36	<0.1	0.5	0.1	56	0.48	0.031
1193174	Soil	0.9	8.3	7.6	77	<0.1	10.7	17.4	798	4.16	4.0	1.6	2.9	12.4	20	<0.1	0.4	0.2	81	0.45	0.040
1196544	Soil	1.0	40.7	7.5	67	0.2	18.7	15.8	580	2.79	7.0	0.5	1.3	2.4	70	0.1	1.1	0.1	64	0.56	0.044
1193185	Soil	1.0	27.1	6.6	73	<0.1	18.8	12.8	615	3.77	7.4	1.4	2.6	7.1	25	<0.1	0.4	<0.1	83	0.42	0.059
1193191	Soil	2.4	89.3	7.4	90	<0.1	15.8	14.4	820	4.15	5.9	1.3	3.2	9.4	15	<0.1	0.3	<0.1	89	0.26	0.051
1193186	Soil	1.3	18.9	6.2	103	<0.1	17.8	15.5	679	4.22	5.8	1.3	1.5	8.1	27	<0.1	0.4	<0.1	89	0.39	0.050
1196855	Soil	0.5	29.0	6.3	83	<0.1	13.8	19.0	835	5.65	4.6	1.9	1.1	7.4	55	<0.1	0.4	<0.1	131	0.80	0.044
1196852	Soil	1.2	10.1	8.7	48	<0.1	16.6	7.7	387	2.21	6.5	0.3	0.8	2.5	20	<0.1	0.4	0.1	55	0.32	0.017
1196857	Soil	1.3	39.2	20.6	68	<0.1	32.1	17.6	868	4.03	8.4	1.1	4.5	3.2	31	0.1	0.5	0.4	110	0.55	0.030
1193176	Soil	0.7	15.1	8.3	55	<0.1	18.7	11.1	441	2.98	6.8	0.8	2.4	5.2	28	<0.1	0.4	0.1	66	0.55	0.045
1193183	Soil	0.8	25.0	6.1	91	<0.1	14.9	19.0	828	5.18	6.9	1.1	1.8	8.1	24	<0.1	0.6	<0.1	110	0.38	0.047
1196549	Soil	0.9	19.6	7.2	63	<0.1	24.5	12.4	449	3.22	8.8	1.1	3.8	6.3	31	<0.1	0.6	<0.1	61	0.38	0.030
1196542	Soil	1.2	21.6	8.6	60	<0.1	25.8	11.4	443	2.83	9.6	0.5	0.6	4.4	22	0.1	0.5	0.2	61	0.39	0.039
1193187	Soil	1.2	29.4	6.3	99	<0.1	15.5	16.1	750	4.25	6.8	1.2	2.5	8.8	31	<0.1	0.3	<0.1	95	0.49	0.068
1196854	Soil	0.6	8.4	3.8	64	<0.1	6.7	13.1	738	3.90	3.5	0.9	1.2	6.3	16	<0.1	0.1	<0.1	84	0.35	0.056
1193173	Soil	0.9	25.0	5.8	94	<0.1	16.0	18.8	842	5.31	7.4	1.2	1.6	8.0	25	<0.1	0.6	<0.1	112	0.39	0.049
1196856	Soil	0.8	13.7	8.9	48	<0.1	19.2	9.7	439	2.30	5.9	0.6	1.9	2.9	34	<0.1	0.4	0.1	55	0.66	0.044
1196853	Soil	0.5	15.7	4.3	78	<0.1	12.8	13.7	809	4.18	3.8	1.1	2.0	12.8	24	<0.1	0.2	<0.1	84	0.49	0.048
1193178	Soil	0.9	15.2	9.8	47	<0.1	16.2	8.5	649	2.39	7.2	0.6	2.4	3.1	32	<0.1	0.4	0.1	53	0.62	0.053
1196543	Soil	0.8	27.1	50.0	28	<0.1	12.5	6.3	408	1.61	5.7	1.0	2.7	13.6	12	<0.1	0.7	0.5	26	0.17	0.026
1196545	Soil	1.1	21.5	10.2	48	<0.1	24.8	9.4	337	2.64	11.2	0.7	5.1	4.1	22	<0.1	0.7	0.1	57	0.27	0.035
1193189	Soil	3.1	120.0	8.0	102	<0.1	14.5	17.4	904	4.88	5.3	2.4	1.5	14.9	15	<0.1	0.4	0.1	104	0.25	0.048
1196396	Soil	1.3	9.3	8.2	40	<0.1	15.3	7.9	330	2.29	7.4	0.3	3.1	2.0	17	<0.1	0.4	0.1	54	0.25	0.029
1197136	Soil	0.9	24.8	9.1	50	<0.1	28.5	10.5	423	2.47	12.0	0.4	4.0	3.9	23	<0.1	0.7	0.2	48	0.39	0.045
1198007	Soil	0.8	38.8	9.1	52	<0.1	26.1	11.3	405	2.70	10.2	0.5	4.9	3.3	26	<0.1	0.6	0.2	59	0.53	0.056
1198001	Soil	0.6	51.2	10.3	62	<0.1	24.5	15.6	642	3.33	8.3	0.5	3.8	2.7	44	0.1	0.5	0.1	83	1.42	0.066
1197148	Soil	0.8	12.7	7.7	38	<0.1	18.2	7.4	190	2.41	9.0	0.3	1.4	2.3	18	<0.1	0.4	0.1	50	0.27	0.035
1196398	Soil	0.9	30.6	10.5	55	0.1	22.4	10.5	325	2.68	10.5	0.7	4.2	3.7	30	0.2	0.5	0.2	57	0.48	0.068

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CERTIFICATE OF ANALYSIS

WHI11000179A.2

Method Analyte	1DX15																	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1193175	Soil	21	15	1.22	353	0.084	5	2.16	0.009	0.49	<0.1	0.01	7.1	0.2	<0.05	9	<0.5	<0.2
1196859	Soil	10	37	0.56	301	0.045	1	1.74	0.011	0.05	0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
1196546	Soil	16	29	0.82	261	0.073	1	1.85	0.009	0.07	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
1193174	Soil	17	16	1.22	146	0.060	2	2.02	0.008	0.37	<0.1	0.01	6.3	0.1	<0.05	9	<0.5	<0.2
1196544	Soil	11	35	0.65	292	0.042	2	1.80	0.010	0.04	0.1	0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
1193185	Soil	19	28	0.97	240	0.124	1	1.93	0.012	0.50	<0.1	0.01	4.8	0.2	<0.05	7	<0.5	<0.2
1193191	Soil	16	25	0.86	320	0.123	2	2.29	0.009	0.90	0.2	0.01	7.7	0.3	<0.05	10	<0.5	<0.2
1193186	Soil	11	28	1.19	252	0.159	2	2.26	0.010	0.85	<0.1	<0.01	4.4	0.3	<0.05	9	<0.5	<0.2
1196855	Soil	23	18	1.49	308	0.080	2	2.70	0.010	0.11	<0.1	0.02	8.6	<0.1	<0.05	11	<0.5	<0.2
1196852	Soil	9	30	0.40	300	0.049	1	1.50	0.012	0.07	0.2	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
1196857	Soil	18	53	1.00	253	0.075	2	1.84	0.030	0.06	<0.1	0.05	9.9	<0.1	<0.05	8	<0.5	<0.2
1193176	Soil	24	27	0.67	253	0.077	2	1.55	0.021	0.11	0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
1193183	Soil	13	22	1.47	239	0.135	2	2.57	0.009	0.68	<0.1	<0.01	5.0	0.2	<0.05	9	<0.5	<0.2
1196549	Soil	17	33	0.68	259	0.052	1	1.70	0.012	0.05	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
1196542	Soil	12	35	0.55	333	0.064	2	1.57	0.015	0.22	0.1	0.01	4.4	0.1	<0.05	5	<0.5	<0.2
1193187	Soil	12	26	1.10	317	0.130	1	2.42	0.011	0.59	<0.1	<0.01	4.9	0.2	<0.05	9	<0.5	<0.2
1196854	Soil	7	15	0.91	334	0.143	<1	1.96	0.011	0.88	<0.1	<0.01	4.1	0.2	<0.05	7	<0.5	<0.2
1193173	Soil	14	25	1.51	257	0.143	2	2.76	0.010	0.69	<0.1	0.01	5.2	0.2	<0.05	9	<0.5	<0.2
1196856	Soil	10	29	0.49	359	0.049	1	1.61	0.025	0.05	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
1196853	Soil	24	20	1.14	284	0.127	<1	2.05	0.012	0.67	<0.1	0.02	4.8	0.2	<0.05	8	<0.5	<0.2
1193178	Soil	13	28	0.52	294	0.053	2	1.46	0.018	0.07	0.2	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1196543	Soil	13	17	0.22	164	0.007	1	0.99	0.009	0.10	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
1196545	Soil	13	38	0.50	269	0.052	1	1.45	0.012	0.06	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
1193189	Soil	21	26	1.16	286	0.138	<1	2.49	0.010	1.03	<0.1	<0.01	8.9	0.4	<0.05	9	<0.5	<0.2
1196396	Soil	8	26	0.43	263	0.040	<1	1.42	0.011	0.04	0.2	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
1197136	Soil	13	30	0.49	280	0.053	1	1.23	0.019	0.10	0.2	0.03	3.7	<0.1	<0.05	4	0.5	<0.2
1198007	Soil	11	27	0.66	267	0.063	2	1.37	0.024	0.09	0.2	0.05	4.1	<0.1	<0.05	4	0.6	<0.2
1198001	Soil	11	29	0.94	328	0.062	2	1.52	0.041	0.09	0.1	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
1197148	Soil	8	28	0.46	267	0.041	<1	1.47	0.011	0.05	0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
1196398	Soil	13	30	0.54	429	0.066	1	1.49	0.023	0.06	0.2	0.03	3.8	<0.1	<0.05	5	0.8	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179A.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196399	Soil	1.6	41.4	17.1	136	0.1	19.3	17.9	617	5.06	11.4	1.6	1.1	3.0	46	1.0	0.3	0.2	103	0.56	0.084
1197146	Soil	1.0	24.2	7.3	41	<0.1	26.3	11.1	356	3.01	9.3	0.7	3.7	3.3	27	<0.1	0.4	0.1	71	0.52	0.066
1196400	Soil	0.8	27.0	7.9	60	0.1	24.8	11.1	464	2.60	11.8	0.8	1.9	3.1	36	0.2	0.6	0.1	57	0.65	0.070
1197142	Soil	1.1	29.9	8.7	72	0.1	27.5	11.4	522	2.81	11.1	0.7	3.1	3.7	53	0.3	0.8	0.2	58	1.63	0.080
1197144	Soil	1.5	18.7	11.2	49	0.1	18.4	18.4	848	2.93	8.2	1.3	3.3	2.9	33	0.2	0.5	0.2	67	0.53	0.056
1197135	Soil	0.7	13.7	7.6	40	<0.1	19.1	7.2	140	2.44	10.1	0.4	3.0	2.6	13	<0.1	0.4	0.2	54	0.19	0.027
1198017	Soil	0.8	40.1	9.1	59	0.2	31.8	12.0	475	2.77	11.8	0.7	5.7	3.5	50	<0.1	0.7	0.1	55	1.91	0.060
1198014	Soil	0.7	32.4	8.7	55	0.2	31.5	11.4	441	2.61	11.8	0.6	2.9	3.8	36	0.1	0.6	0.1	52	1.07	0.052
1198004	Soil	0.8	27.9	9.0	57	0.1	21.8	10.6	409	2.76	10.0	0.5	4.0	3.4	33	0.2	0.5	0.1	61	0.60	0.069
1197141	Soil	0.7	27.7	8.8	61	0.1	25.8	10.5	399	2.68	11.1	0.5	3.3	3.4	36	0.1	0.6	0.1	57	0.67	0.069
1196912	Soil	5.0	65.6	21.0	168	0.1	26.8	9.1	389	4.13	21.2	1.9	1.3	3.2	100	0.4	0.2	0.2	125	0.24	0.078
1196908	Soil	1.1	29.3	5.1	127	<0.1	14.2	16.2	793	5.24	2.7	1.3	0.7	7.2	57	0.1	<0.1	<0.1	81	0.38	0.098
1196916	Soil	1.4	25.0	16.0	105	<0.1	35.5	11.9	349	4.06	6.4	0.9	1.8	7.6	18	0.1	0.2	0.2	74	0.17	0.029
1196858	Soil	1.2	26.7	10.2	55	<0.1	30.6	10.0	294	2.89	13.1	0.7	2.7	4.3	26	0.1	0.6	0.1	64	0.38	0.031
1196903	Soil	1.1	29.1	11.9	93	<0.1	15.3	10.0	457	3.95	7.1	0.6	1.7	2.7	29	0.1	0.2	0.1	89	0.22	0.027
1196906	Soil	1.3	28.1	14.9	165	0.3	15.1	8.4	295	3.37	9.1	0.9	3.6	4.0	24	0.2	0.3	0.2	60	0.30	0.033
1196650	Soil	1.2	17.2	41.7	165	<0.1	11.8	7.6	819	3.98	5.6	0.8	1.6	5.3	14	0.1	0.3	0.3	32	0.12	0.028
1196904	Soil	1.0	7.8	10.9	50	<0.1	8.1	4.5	225	2.02	6.9	0.4	0.7	2.0	16	0.2	0.2	0.2	50	0.15	0.025
1196902	Soil	0.9	28.0	9.3	58	<0.1	13.6	8.9	269	3.02	6.1	0.9	2.8	3.2	25	<0.1	0.3	0.1	71	0.26	0.022
1196913	Soil	2.0	25.8	8.4	87	0.1	28.5	10.4	284	3.45	10.1	0.8	<0.5	3.0	109	0.1	0.2	0.1	92	0.22	0.042
1196926	Soil	0.8	44.2	11.9	187	0.1	25.1	16.2	539	3.98	7.9	0.7	4.0	3.8	31	0.3	0.3	0.2	84	0.54	0.064
1196901	Soil	1.1	43.4	7.3	112	<0.1	19.7	15.4	651	4.94	8.2	1.0	2.7	3.8	41	<0.1	0.3	<0.1	112	0.43	0.048
1196924	Soil	0.9	14.1	8.0	52	<0.1	17.1	8.9	356	2.42	9.0	0.5	1.8	3.0	24	0.2	0.4	0.1	51	0.40	0.057
1196915	Soil	1.0	34.0	9.0	113	<0.1	39.8	17.1	372	5.47	5.0	1.5	0.7	14.3	31	<0.1	0.1	<0.1	64	0.23	0.070
1196919	Soil	0.9	15.9	10.6	67	<0.1	20.2	10.7	225	2.92	7.3	1.0	1.1	5.6	32	0.1	0.3	0.1	59	0.24	0.030
1196922	Soil	1.9	26.4	13.1	61	<0.1	25.2	9.4	299	2.63	7.9	0.6	2.1	3.8	26	<0.1	0.5	0.2	56	0.37	0.039
1192203	Soil	0.4	47.8	10.7	79	<0.1	25.4	19.9	595	4.06	1.8	0.6	1.6	3.7	157	<0.1	0.1	<0.1	91	0.58	0.047
1192107	Soil	1.1	50.7	21.2	186	0.3	12.3	15.3	858	4.30	7.3	1.0	2.3	4.4	35	0.5	0.8	0.1	77	1.03	0.044
1192108	Soil	0.7	68.9	113.9	51	0.3	26.7	12.6	348	2.60	9.1	0.6	<0.5	3.3	40	<0.1	0.5	1.1	72	0.38	0.060
1192207	Soil	0.5	45.7	3.6	85	<0.1	37.0	17.6	752	3.88	2.9	0.6	0.8	2.9	18	<0.1	0.2	<0.1	68	0.52	0.112

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179A.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1196399	Soil	12	29	1.13	811	0.199	<1	2.43	0.030	0.77	<0.1	0.02	9.1	0.3	<0.05	9	0.8	<0.2
1197146	Soil	13	40	0.90	441	0.103	<1	1.95	0.028	0.26	<0.1	0.02	5.5	<0.1	<0.05	6	0.5	<0.2
1196400	Soil	13	29	0.54	334	0.063	1	1.43	0.031	0.06	0.2	0.03	3.5	<0.1	<0.05	5	0.8	<0.2
1197142	Soil	13	30	0.71	351	0.081	2	1.40	0.035	0.09	0.2	0.03	3.4	0.1	<0.05	5	<0.5	<0.2
1197144	Soil	11	33	0.51	439	0.067	1	1.67	0.025	0.05	0.2	0.03	3.7	<0.1	<0.05	5	0.8	<0.2
1197135	Soil	9	30	0.43	230	0.047	<1	1.59	0.010	0.04	0.2	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
1198017	Soil	14	30	0.66	311	0.051	1	1.27	0.026	0.06	0.2	0.06	4.5	<0.1	<0.05	4	0.6	<0.2
1198014	Soil	15	29	0.58	284	0.049	<1	1.26	0.024	0.06	0.2	0.04	4.1	<0.1	<0.05	4	0.6	<0.2
1198004	Soil	13	28	0.55	322	0.078	<1	1.52	0.030	0.08	0.2	0.04	3.9	<0.1	<0.05	5	0.6	<0.2
1197141	Soil	13	29	0.59	363	0.063	2	1.45	0.032	0.06	0.2	0.04	3.6	<0.1	<0.05	4	0.6	<0.2
1196912	Soil	12	49	1.08	349	0.120	<1	2.37	0.012	0.39	<0.1	0.01	4.3	0.2	0.09	10	1.7	<0.2
1196908	Soil	42	34	1.64	825	0.196	<1	3.10	0.021	1.25	<0.1	<0.01	10.5	0.2	<0.05	12	0.7	<0.2
1196916	Soil	23	47	1.01	252	0.151	<1	2.88	0.010	0.68	<0.1	0.02	3.9	0.4	<0.05	9	0.6	<0.2
1196858	Soil	14	46	0.57	267	0.065	<1	1.71	0.014	0.06	0.1	0.02	5.3	<0.1	<0.05	5	0.7	<0.2
1196903	Soil	11	34	0.85	296	0.125	<1	2.42	0.013	0.44	<0.1	0.01	4.6	0.2	<0.05	8	<0.5	<0.2
1196906	Soil	12	28	0.60	287	0.074	<1	1.89	0.013	0.06	<0.1	0.02	4.5	0.2	<0.05	7	0.5	<0.2
1196650	Soil	11	20	0.50	225	0.125	<1	1.97	0.011	0.38	<0.1	<0.01	12.0	0.2	<0.05	8	0.6	<0.2
1196904	Soil	9	20	0.29	123	0.059	<1	1.41	0.008	0.06	<0.1	<0.01	2.5	<0.1	<0.05	7	<0.5	<0.2
1196902	Soil	12	29	0.65	290	0.081	<1	1.88	0.018	0.09	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
1196913	Soil	12	49	0.84	318	0.126	<1	2.24	0.011	0.28	<0.1	0.02	3.6	0.2	<0.05	9	0.6	<0.2
1196926	Soil	14	89	1.46	402	0.118	<1	2.19	0.025	0.40	0.1	0.02	6.8	0.2	<0.05	8	0.5	<0.2
1196901	Soil	27	34	1.14	558	0.189	<1	2.98	0.019	0.75	0.1	<0.01	6.9	0.2	<0.05	9	0.8	<0.2
1196924	Soil	11	27	0.49	250	0.056	<1	1.43	0.019	0.06	0.2	<0.01	2.4	<0.1	<0.05	4	0.8	<0.2
1196915	Soil	44	49	1.33	265	0.220	<1	3.26	0.010	1.39	<0.1	<0.01	4.1	0.8	<0.05	11	0.6	<0.2
1196919	Soil	24	35	0.71	241	0.106	<1	1.95	0.011	0.20	0.1	0.02	2.9	0.2	<0.05	6	0.7	<0.2
1196922	Soil	12	40	0.55	287	0.073	1	1.51	0.014	0.07	0.2	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
1192203	Soil	15	51	1.64	410	0.169	<1	2.33	0.033	0.88	<0.1	0.01	9.7	0.2	<0.05	8	<0.5	<0.2
1192107	Soil	15	22	0.72	185	0.052	2	1.51	0.008	0.18	<0.1	0.08	9.0	0.1	<0.05	6	<0.5	<0.2
1192108	Soil	11	30	0.67	174	0.078	1	1.57	0.013	0.14	0.1	0.03	4.9	0.1	<0.05	4	<0.5	<0.2
1192207	Soil	11	56	1.40	314	0.193	1	2.09	0.022	1.11	<0.1	0.02	6.9	0.2	<0.05	7	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179A.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1192113	Soil	0.4	10.9	9.7	90	<0.1	20.4	18.0	913	5.41	4.1	0.9	1.5	3.8	39	0.1	0.6	0.1	154	1.82	0.091
1192202	Soil	0.5	134.7	13.7	48	0.1	18.9	17.4	354	2.71	3.1	0.4	<0.5	0.7	87	<0.1	0.2	<0.1	80	0.75	0.056
1192206	Soil	1.1	41.2	9.4	52	0.1	24.6	13.1	484	2.94	7.9	0.3	<0.5	2.3	28	<0.1	0.5	0.1	70	0.40	0.030
1192201	Soil	0.9	61.7	19.1	112	<0.1	15.3	11.2	596	3.85	4.7	0.9	3.1	5.0	23	<0.1	0.2	0.1	66	0.39	0.042
1192103	Soil	0.8	35.4	15.4	54	0.2	27.9	12.1	408	2.72	7.7	0.6	2.9	3.2	133	0.2	0.7	0.2	74	5.00	0.058
1192104	Soil	0.8	38.5	15.2	122	0.1	19.7	9.9	960	3.69	6.8	1.1	1.8	7.6	35	<0.1	0.4	0.2	66	0.46	0.075
1192205	Soil	0.6	78.3	26.4	73	<0.1	29.4	29.6	836	4.92	2.0	0.3	0.6	0.8	85	0.1	0.2	0.2	130	0.76	0.051
1192105	Soil	1.2	38.8	36.6	81	<0.1	22.4	13.6	616	3.41	5.9	0.5	0.7	3.8	24	0.1	0.3	0.3	76	0.39	0.020
1192115	Soil	0.8	43.4	9.8	88	<0.1	10.9	22.2	1080	5.74	13.0	1.2	<0.5	3.5	39	<0.1	0.5	<0.1	153	1.15	0.050
1192123	Soil	0.7	50.9	14.2	66	0.2	25.7	14.6	524	3.26	15.7	0.7	3.9	3.2	68	0.1	0.7	0.2	85	2.70	0.060
1192101	Soil	0.7	55.2	12.7	67	0.4	20.8	12.6	548	4.24	7.8	0.7	4.1	3.5	56	0.1	0.5	0.1	76	1.76	0.060
1192122	Soil	1.1	34.4	16.8	87	<0.1	26.0	13.8	582	3.49	9.0	0.5	<0.5	4.1	29	0.2	0.6	0.2	72	0.48	0.027
1196812	Soil	1.3	33.7	10.7	81	0.7	22.2	13.9	312	3.98	9.4	0.4	4.0	1.9	28	0.3	0.4	0.2	115	0.14	0.028
1196806	Soil	1.6	13.8	11.9	56	0.5	17.9	7.6	226	3.07	9.5	0.4	1.3	2.6	14	0.2	0.5	0.2	79	0.15	0.031
1196803	Soil	1.2	19.2	25.0	89	0.4	23.9	11.9	1538	3.07	7.8	0.5	<0.5	3.4	27	0.1	0.5	0.3	68	0.28	0.041
1196818	Soil	0.6	25.9	5.6	104	<0.1	33.4	20.5	806	4.24	4.6	0.3	<0.5	1.8	19	<0.1	0.2	<0.1	120	0.26	0.039
1196804	Soil	1.5	16.0	9.9	97	0.1	19.0	7.7	812	3.02	7.5	0.4	<0.5	2.8	27	0.1	0.4	0.1	53	0.20	0.036
1196810	Soil	1.5	26.8	11.6	94	0.3	28.3	10.2	591	3.25	8.1	1.2	1.2	3.9	30	0.1	0.3	0.1	72	0.82	0.194
1196824	Soil	1.1	28.4	9.8	74	<0.1	23.1	10.4	417	4.34	8.7	0.6	1.7	3.9	19	<0.1	0.4	0.1	79	0.19	0.034
1196822	Soil	1.1	64.3	13.0	83	<0.1	17.9	13.0	414	4.27	6.9	0.4	0.7	2.3	25	0.1	0.4	0.2	108	0.26	0.020
1196830	Soil	1.0	21.8	14.1	70	0.1	17.7	9.7	431	3.50	5.2	0.8	<0.5	7.9	45	<0.1	0.1	0.2	57	0.40	0.043
1196825	Soil	1.6	33.6	13.8	74	0.2	27.0	9.7	304	2.98	14.6	1.0	<0.5	5.2	21	0.1	0.5	0.2	76	0.21	0.042
1196829	Soil	2.2	24.0	28.1	175	0.2	24.6	13.1	517	3.67	8.8	1.3	<0.5	3.0	26	0.5	0.3	0.4	111	0.22	0.065
1196820	Soil	3.9	203.2	8.0	85	0.2	12.4	13.7	420	3.69	4.9	0.8	4.1	2.9	34	0.4	0.6	0.2	62	0.44	0.035
1196821	Soil	1.8	44.6	11.2	58	0.2	40.7	13.0	278	4.17	6.2	1.3	0.6	8.8	12	0.1	0.4	0.6	55	0.19	0.047
1196814	Soil	1.0	22.3	9.8	61	<0.1	26.2	9.9	375	2.85	10.1	0.6	<0.5	4.2	21	<0.1	0.5	0.2	63	0.26	0.034
1196817	Soil	1.6	71.7	10.5	106	<0.1	21.3	19.1	763	5.24	5.3	1.3	1.4	8.5	16	<0.1	0.4	0.4	131	0.27	0.036
1196816	Soil	1.7	64.0	11.0	92	0.1	26.3	15.5	593	4.48	7.7	1.1	<0.5	7.6	18	<0.1	0.5	0.4	107	0.26	0.031
1196656	Soil	1.1	46.3	13.7	69	<0.1	23.7	13.0	427	3.89	5.8	0.5	0.8	4.3	30	0.2	0.4	0.1	97	0.40	0.043
1196687	Soil	0.7	25.2	8.9	49	<0.1	23.1	9.2	394	2.38	8.1	0.8	4.6	3.7	43	0.2	0.5	0.2	51	0.62	0.053

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1192113	Soil	19	33	1.74	1379	0.053	5	2.41	0.008	0.23	<0.1	0.13	19.4	0.1	<0.05	12	<0.5	<0.2
1192202	Soil	3	20	1.08	166	0.100	<1	2.07	0.023	0.31	<0.1	0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
1192206	Soil	5	32	0.68	252	0.095	1	1.82	0.031	0.14	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
1192201	Soil	24	18	0.90	176	0.120	1	1.80	0.015	0.53	<0.1	0.02	12.8	0.2	<0.05	8	<0.5	<0.2
1192103	Soil	11	31	1.20	787	0.109	3	1.40	0.026	0.26	0.2	0.04	4.6	0.1	<0.05	5	<0.5	<0.2
1192104	Soil	28	25	0.70	255	0.074	1	2.01	0.010	0.45	<0.1	0.04	8.0	0.2	<0.05	9	<0.5	<0.2
1192205	Soil	3	33	2.07	486	0.187	<1	2.87	0.029	0.92	<0.1	0.02	9.3	0.3	<0.05	8	<0.5	<0.2
1192105	Soil	13	29	0.79	188	0.102	2	1.75	0.014	0.36	<0.1	0.02	6.6	0.1	<0.05	6	<0.5	<0.2
1192115	Soil	13	22	1.46	149	0.083	5	2.40	0.009	0.28	<0.1	0.03	11.9	<0.1	<0.05	11	<0.5	<0.2
1192123	Soil	12	29	0.96	530	0.093	2	1.53	0.017	0.27	0.2	0.06	6.8	0.2	<0.05	5	<0.5	<0.2
1192101	Soil	14	34	1.13	583	0.118	3	1.95	0.015	0.42	0.1	0.10	11.0	0.2	<0.05	7	<0.5	<0.2
1192122	Soil	14	32	0.67	497	0.088	4	1.75	0.016	0.29	0.2	0.03	7.2	<0.1	<0.05	6	<0.5	<0.2
1196812	Soil	6	32	0.80	435	0.133	1	2.69	0.013	0.19	<0.1	0.02	3.7	0.2	0.07	7	0.7	<0.2
1196806	Soil	8	33	0.40	194	0.067	<1	1.75	0.007	0.04	0.1	0.03	2.0	0.1	<0.05	7	<0.5	<0.2
1196803	Soil	10	35	0.47	341	0.075	1	2.09	0.009	0.11	<0.1	0.03	3.8	0.1	<0.05	7	<0.5	<0.2
1196818	Soil	4	52	2.31	783	0.247	1	3.31	0.010	1.47	0.1	0.01	2.4	0.2	<0.05	10	<0.5	<0.2
1196804	Soil	7	28	0.43	307	0.085	1	2.04	0.009	0.21	<0.1	0.02	5.2	0.1	<0.05	7	<0.5	<0.2
1196810	Soil	14	35	1.57	440	0.104	2	2.15	0.013	0.15	0.1	0.02	5.0	0.2	<0.05	8	<0.5	<0.2
1196824	Soil	9	37	1.14	712	0.173	<1	2.40	0.011	0.57	<0.1	0.02	9.8	0.2	<0.05	9	<0.5	<0.2
1196822	Soil	8	42	0.99	533	0.093	1	2.41	0.009	0.21	<0.1	0.02	6.7	0.1	<0.05	9	<0.5	<0.2
1196830	Soil	7	28	0.86	268	0.127	<1	2.41	0.008	0.92	<0.1	0.01	4.4	0.4	<0.05	8	<0.5	<0.2
1196825	Soil	13	46	0.64	314	0.087	<1	1.88	0.011	0.15	0.1	<0.01	3.5	0.1	<0.05	6	<0.5	<0.2
1196829	Soil	10	50	0.76	463	0.124	1	2.09	0.011	0.21	<0.1	0.02	4.5	0.2	<0.05	8	<0.5	<0.2
1196820	Soil	17	21	1.24	697	0.097	<1	2.30	0.009	0.24	<0.1	0.02	5.3	<0.1	<0.05	7	<0.5	<0.2
1196821	Soil	11	41	0.57	222	0.035	<1	1.65	0.006	0.14	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5	0.4
1196814	Soil	11	40	0.58	226	0.088	1	1.66	0.011	0.18	0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
1196817	Soil	20	36	1.30	314	0.167	2	2.37	0.011	1.08	<0.1	0.03	16.8	0.3	<0.05	9	<0.5	<0.2
1196816	Soil	18	42	0.99	272	0.131	1	2.08	0.011	0.72	0.1	0.05	13.0	0.2	<0.05	7	<0.5	<0.2
1196656	Soil	11	41	1.07	427	0.095	1	2.22	0.015	0.53	<0.1	0.02	7.5	0.1	<0.05	8	<0.5	<0.2
1196687	Soil	14	26	0.51	349	0.061	1	1.42	0.020	0.05	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196688	Soil	0.8	54.5	32.2	111	0.2	27.3	28.5	1138	4.89	8.4	0.8	10.1	2.8	112	0.1	2.1	0.3	110	1.10	0.051
1196654	Soil	0.7	54.9	5.7	76	<0.1	28.8	19.2	559	3.93	5.5	0.7	0.7	4.1	30	<0.1	0.3	<0.1	112	0.51	0.051
1196653	Soil	0.7	47.7	6.2	69	<0.1	26.0	18.1	543	3.98	7.0	0.7	0.6	4.0	28	<0.1	0.4	<0.1	105	0.43	0.047
1196689	Soil	0.6	47.3	23.2	92	0.1	25.8	23.3	948	4.29	9.3	0.8	3.9	3.0	99	0.1	1.7	0.2	90	0.91	0.060
1196657	Soil	0.7	42.7	12.8	75	<0.1	19.0	9.8	332	3.45	7.7	0.8	0.8	6.0	21	<0.1	0.4	0.2	67	0.28	0.059
1196847	Soil	0.6	38.0	9.3	61	0.1	28.1	10.7	404	2.77	10.6	0.5	3.8	3.9	66	0.1	0.7	0.2	58	1.87	0.057
1196837	Soil	1.0	54.1	11.1	84	<0.1	18.4	13.0	935	4.20	7.9	1.7	1.2	14.1	18	<0.1	0.5	0.1	84	0.26	0.032
1196848	Soil	0.4	15.2	9.2	69	<0.1	16.6	8.6	256	2.63	7.8	0.6	1.0	3.2	39	0.2	0.7	0.2	61	0.58	0.049
1196846	Soil	0.5	27.5	8.5	57	0.1	22.0	8.6	343	2.46	9.7	0.9	2.2	3.4	49	0.2	0.6	0.2	52	0.72	0.071
1196692	Soil	0.8	30.9	7.8	59	<0.1	25.7	10.2	473	2.48	10.9	0.5	2.2	3.6	63	0.3	0.8	0.1	55	2.09	0.077
1196669	Soil	0.6	105.2	5.2	69	<0.1	16.6	14.5	592	4.14	8.5	0.5	1.1	4.8	21	0.1	0.5	<0.1	92	0.35	0.058
1196661	Soil	0.9	29.3	9.3	70	0.1	21.1	10.0	407	2.87	12.3	0.4	<0.5	3.0	23	0.1	0.8	0.2	62	0.28	0.035
1196675	Soil	1.3	70.7	9.2	67	<0.1	11.1	13.1	518	3.90	6.9	1.1	0.7	12.6	31	<0.1	0.3	0.1	78	0.32	0.061
1196842	Soil	0.7	17.4	4.4	117	<0.1	12.3	24.8	898	5.69	4.2	0.4	<0.5	3.9	43	<0.1	0.2	<0.1	154	0.39	0.043
1196849	Soil	0.5	15.5	8.8	46	<0.1	12.6	7.7	243	1.95	4.2	0.4	<0.5	2.7	28	<0.1	0.5	0.1	53	0.37	0.016
1196691	Soil	0.5	28.7	11.9	61	<0.1	20.8	9.7	329	2.85	7.8	0.5	1.8	4.3	53	0.1	0.8	0.2	62	0.66	0.037
1196658	Soil	0.8	10.2	9.4	55	<0.1	32.1	12.2	428	3.52	8.7	0.8	<0.5	7.7	20	<0.1	0.4	0.2	72	0.26	0.073
1196666	Soil	0.6	133.8	7.5	91	<0.1	21.7	21.9	656	5.29	4.6	0.9	0.5	3.7	28	<0.1	0.5	0.2	153	0.48	0.075
1196841	Soil	0.5	36.0	4.5	105	<0.1	13.7	19.9	815	5.11	5.1	0.8	0.8	3.8	37	<0.1	0.3	<0.1	138	0.57	0.109
1196845	Soil	1.0	46.2	6.5	111	<0.1	13.7	19.7	779	5.63	5.5	1.2	<0.5	7.1	23	<0.1	1.0	<0.1	108	0.40	0.038
1196843	Soil	0.6	27.8	3.9	106	<0.1	13.3	24.0	909	5.62	4.3	0.6	<0.5	4.3	62	<0.1	0.2	<0.1	140	0.65	0.072
1196659	Soil	1.2	18.0	87.6	63	0.1	19.4	9.4	540	3.44	14.4	0.5	6.8	3.2	25	<0.1	0.6	0.4	67	0.24	0.032
1196681	Soil	1.9	69.8	9.1	74	<0.1	22.8	14.4	337	3.74	8.9	1.0	0.9	6.1	35	<0.1	0.7	0.1	89	0.40	0.022
1196694	Soil	0.6	26.0	11.7	81	<0.1	21.7	14.5	463	3.88	9.8	0.8	<0.5	5.6	44	<0.1	0.5	0.1	92	0.46	0.051
1196844	Soil	1.3	23.9	11.1	62	<0.1	22.9	11.4	331	3.05	9.7	0.5	2.9	3.8	25	0.1	0.7	0.2	69	0.27	0.025
1196665	Soil	0.5	55.8	5.5	79	<0.1	29.6	23.0	645	4.22	6.8	0.6	0.8	4.1	38	<0.1	0.4	<0.1	115	0.57	0.072
1196850	Soil	0.6	32.8	8.7	53	0.1	25.8	11.3	522	2.57	11.4	0.5	2.6	3.2	44	<0.1	0.6	0.1	52	0.92	0.075
1196836	Soil	1.4	44.9	9.7	67	<0.1	25.9	12.2	607	3.16	9.4	0.6	3.5	6.0	31	<0.1	0.7	0.2	70	0.48	0.025
1196839	Soil	1.6	38.9	13.4	56	<0.1	34.6	10.8	276	3.08	13.8	0.8	0.8	5.9	26	<0.1	0.8	0.1	66	0.34	0.055
1196693	Soil	0.7	36.7	6.7	120	<0.1	25.6	22.3	745	5.34	10.1	0.8	<0.5	4.1	50	0.1	1.2	<0.1	112	0.68	0.033

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1196688	Soil	8	56	1.56	216	0.033	1	2.55	0.014	0.03	<0.1	0.06	8.6	<0.1	<0.05	10	0.7	<0.2
1196654	Soil	11	52	1.78	432	0.140	<1	2.75	0.013	0.78	<0.1	0.01	6.7	0.2	<0.05	9	0.6	<0.2
1196653	Soil	11	47	1.56	370	0.133	1	2.64	0.013	0.71	0.1	0.02	6.0	0.2	<0.05	8	<0.5	<0.2
1196689	Soil	10	46	1.32	214	0.037	2	2.23	0.015	0.03	<0.1	0.08	7.2	<0.1	<0.05	8	0.6	<0.2
1196657	Soil	17	34	1.10	598	0.111	1	2.26	0.013	0.72	0.1	<0.01	7.0	0.2	<0.05	8	0.7	<0.2
1196847	Soil	14	29	0.73	351	0.082	2	1.70	0.044	0.07	0.2	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
1196837	Soil	18	24	0.83	383	0.109	2	2.02	0.009	0.78	0.3	0.02	7.7	0.3	<0.05	7	0.9	<0.2
1196848	Soil	10	30	0.60	316	0.090	2	1.76	0.032	0.07	0.1	0.02	3.3	<0.1	<0.05	5	0.6	<0.2
1196846	Soil	13	28	0.58	358	0.062	2	1.40	0.037	0.07	0.2	0.04	3.5	<0.1	<0.05	4	0.6	<0.2
1196692	Soil	13	29	0.72	277	0.082	2	1.20	0.038	0.10	0.2	0.03	3.3	<0.1	<0.05	4	0.8	<0.2
1196669	Soil	11	27	1.05	369	0.154	1	2.06	0.017	0.89	0.2	0.02	6.0	0.2	<0.05	7	0.6	<0.2
1196661	Soil	9	35	0.61	428	0.081	2	1.69	0.011	0.11	0.1	0.02	3.3	<0.1	<0.05	5	0.6	<0.2
1196675	Soil	21	17	0.73	314	0.087	1	1.92	0.011	0.77	<0.1	0.01	7.6	0.2	<0.05	7	0.7	<0.2
1196842	Soil	6	20	1.86	615	0.318	1	3.22	0.009	1.88	<0.1	<0.01	3.1	0.4	<0.05	9	<0.5	<0.2
1196849	Soil	12	23	0.45	248	0.076	<1	1.43	0.016	0.05	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
1196691	Soil	14	33	0.60	332	0.104	2	1.92	0.033	0.07	0.1	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
1196658	Soil	20	56	0.96	571	0.109	2	2.00	0.011	0.69	<0.1	0.01	5.1	0.3	<0.05	7	<0.5	<0.2
1196666	Soil	12	47	1.94	419	0.150	<1	2.85	0.014	1.13	<0.1	0.02	10.6	0.3	<0.05	10	0.5	<0.2
1196841	Soil	11	16	1.67	413	0.237	<1	2.65	0.008	1.33	<0.1	0.01	5.3	0.3	<0.05	9	<0.5	<0.2
1196845	Soil	8	18	1.50	431	0.126	2	2.83	0.008	0.83	<0.1	0.01	10.6	0.2	<0.05	10	0.8	<0.2
1196843	Soil	13	18	1.99	547	0.340	<1	3.08	0.009	0.94	<0.1	<0.01	2.6	0.2	<0.05	9	0.5	<0.2
1196659	Soil	10	36	0.56	450	0.090	1	1.80	0.012	0.18	0.1	0.03	4.2	0.1	<0.05	6	0.6	<0.2
1196681	Soil	22	35	0.95	256	0.106	1	2.27	0.017	0.16	0.2	0.03	6.4	<0.1	<0.05	8	0.7	<0.2
1196694	Soil	11	31	1.00	286	0.156	1	2.52	0.010	0.51	0.1	0.02	5.7	0.2	<0.05	8	<0.5	<0.2
1196844	Soil	13	35	0.60	213	0.074	1	1.79	0.009	0.08	0.1	0.03	3.8	<0.1	<0.05	6	0.6	<0.2
1196665	Soil	8	58	1.68	375	0.147	<1	2.71	0.014	0.99	<0.1	0.01	7.8	0.2	<0.05	9	0.7	<0.2
1196850	Soil	14	26	0.67	301	0.062	2	1.22	0.028	0.07	0.2	0.05	3.2	<0.1	<0.05	4	0.6	<0.2
1196836	Soil	19	35	0.65	333	0.094	1	1.90	0.021	0.13	0.2	0.05	5.7	<0.1	<0.05	6	<0.5	<0.2
1196839	Soil	15	45	0.60	201	0.095	1	1.82	0.011	0.14	0.2	0.02	5.4	<0.1	<0.05	5	0.7	<0.2
1196693	Soil	14	38	1.32	352	0.115	1	2.88	0.009	0.36	<0.1	0.02	8.1	<0.1	<0.05	9	0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1196905	Soil	0.9	43.5	73.7	275	<0.1	10.0	10.1	513	4.99	6.4	0.6	67.2	3.4	38	0.3	0.3	0.4	96	0.17	0.042		
1196928	Soil	2.0	26.0	19.5	81	0.2	23.8	17.1	441	4.31	6.3	1.1	<0.5	11.2	22	0.3	0.2	0.2	71	0.40	0.033		
1196927	Soil	2.7	25.9	13.8	96	0.1	27.1	16.6	525	4.70	5.7	1.2	1.9	8.1	23	0.1	0.3	0.1	109	0.46	0.031		
1196925	Soil	1.3	179.7	10.3	242	0.1	5.7	7.9	432	5.42	4.1	1.1	1.2	3.8	23	0.3	0.2	0.2	56	0.31	0.069		
1196921	Soil	1.2	15.2	7.9	61	0.1	14.7	7.7	594	2.28	6.8	0.3	5.9	2.4	22	0.2	0.4	0.1	52	0.25	0.028		
1196907	Soil	1.3	67.0	31.2	171	0.2	11.2	7.8	318	3.78	6.2	1.3	1.7	4.7	24	0.2	0.3	0.3	59	0.32	0.036		
1196910	Soil	1.4	28.5	14.2	96	0.2	14.5	9.1	242	2.86	3.4	0.5	<0.5	1.6	126	0.2	0.2	0.2	83	0.20	0.022		
1196923	Soil	1.1	26.4	9.9	55	<0.1	21.3	11.5	783	2.43	7.3	2.4	2.4	4.7	34	0.2	0.5	0.2	53	0.46	0.050		
1196914	Soil	0.9	35.5	10.2	119	<0.1	38.4	16.9	359	5.28	3.5	1.9	<0.5	19.0	32	<0.1	0.1	<0.1	58	0.22	0.063		
1196911	Soil	1.2	24.2	12.1	50	0.6	9.7	4.4	151	1.72	3.0	1.6	1.3	0.3	28	0.5	0.2	0.2	44	0.19	0.047		
1196920	Soil	1.0	23.6	17.2	93	<0.1	23.7	14.4	398	4.24	4.7	1.5	<0.5	11.4	35	0.1	0.1	0.2	84	0.35	0.053		
1196918	Soil	1.3	20.8	13.6	61	0.1	21.6	11.2	289	3.30	5.1	1.0	<0.5	9.9	29	<0.1	0.3	0.2	63	0.20	0.028		
1196690	Soil	0.7	50.9	17.2	66	0.1	26.0	15.3	344	3.56	7.6	0.8	1.3	4.1	83	<0.1	0.9	0.2	88	0.81	0.038		
1196929	Soil	4.3	82.3	17.3	236	0.3	58.0	16.0	499	4.05	4.1	2.2	0.6	5.5	47	1.5	0.2	0.4	69	0.22	0.093		
1196917	Soil	1.2	33.4	16.9	85	0.2	21.5	15.0	379	4.28	3.0	1.3	<0.5	10.9	45	<0.1	0.1	0.2	94	0.40	0.051		
1196909	Soil	2.1	58.9	18.2	110	0.3	15.8	10.4	429	4.10	6.0	1.2	1.1	4.9	27	0.2	0.3	0.3	69	0.22	0.047		
1192096	Soil	1.0	36.3	10.4	59	<0.1	28.7	13.1	398	3.27	10.8	0.8	2.4	4.8	29	<0.1	0.7	0.2	83	0.37	0.042		
1192093	Soil	0.9	52.9	25.8	84	0.2	15.0	16.1	445	3.78	6.0	1.4	<0.5	5.5	117	<0.1	0.2	0.4	71	1.07	0.075		
1196655	Soil	0.7	18.5	9.5	53	0.1	20.9	9.4	410	2.61	8.7	0.7	1.9	4.6	26	<0.1	0.5	0.2	57	0.30	0.017		
1196840	Soil	1.1	140.2	12.3	61	<0.1	24.9	13.4	622	3.25	7.7	0.7	3.1	7.4	31	<0.1	0.6	0.2	74	0.70	0.028		
1192099	Soil	3.2	161.7	7.8	387	0.2	149.9	36.1	644	7.05	16.6	2.1	<0.5	5.4	34	0.3	0.6	0.2	134	0.31	0.070		
1192092	Soil	0.6	26.4	7.2	84	<0.1	20.4	15.0	389	4.94	6.8	0.6	<0.5	3.3	25	0.1	0.3	0.2	177	0.62	0.066		
1192095	Soil	1.0	108.2	4.7	42	0.1	14.1	22.4	297	6.02	5.9	1.2	1.4	3.3	19	<0.1	0.3	0.3	126	0.25	0.041		
1192098	Soil	0.9	19.0	9.1	69	<0.1	19.0	10.6	382	2.93	7.2	0.6	<0.5	4.1	28	<0.1	0.4	0.1	67	0.35	0.043		
1192082	Soil	0.6	44.4	5.9	92	<0.1	14.7	13.9	483	3.21	2.9	0.6	<0.5	4.3	32	<0.1	0.2	<0.1	75	0.37	0.014		
1192158	Soil	0.8	21.4	11.0	100	<0.1	15.0	7.4	600	3.75	6.8	1.5	0.5	11.5	22	<0.1	0.4	0.1	40	0.28	0.048		
1192097	Soil	0.4	24.1	9.8	121	0.2	23.5	23.3	775	5.99	2.4	0.8	0.7	1.5	26	0.2	0.2	0.2	190	0.63	0.079		
1192100	Soil	1.9	34.9	16.2	67	0.2	18.1	5.5	199	2.12	6.7	1.2	<0.5	5.6	23	0.3	0.5	0.2	49	0.20	0.021		
1192078	Soil	3.5	79.1	18.6	166	<0.1	43.8	13.4	483	3.82	2.9	2.6	3.0	13.8	20	<0.1	0.2	0.2	112	0.38	0.055		
1192081	Soil	8.8	57.7	17.3	183	<0.1	42.5	8.9	344	3.54	7.8	1.8	3.1	11.1	14	0.2	0.4	0.2	172	0.19	0.031		

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1196905	Soil	7	32	0.81	233	0.199	<1	2.82	0.013	0.65	<0.1	0.02	8.3	0.3	<0.05	10	0.8	<0.2
1196928	Soil	25	33	1.03	474	0.125	1	2.51	0.013	0.78	<0.1	0.03	4.6	0.4	<0.05	9	0.8	<0.2
1196927	Soil	19	61	1.20	236	0.152	1	2.39	0.014	0.80	0.1	0.01	6.4	0.4	<0.05	9	1.1	<0.2
1196925	Soil	10	20	1.40	678	0.126	<1	2.60	0.013	0.83	<0.1	<0.01	11.4	0.4	<0.05	12	1.0	<0.2
1196921	Soil	9	26	0.43	348	0.074	1	1.30	0.013	0.09	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
1196907	Soil	16	23	0.71	318	0.096	3	1.72	0.012	0.12	<0.1	0.03	5.3	0.2	0.06	7	0.7	<0.2
1196910	Soil	6	39	0.86	248	0.131	1	1.73	0.017	0.09	<0.1	0.01	3.5	<0.1	<0.05	9	<0.5	<0.2
1196923	Soil	17	27	0.49	345	0.060	2	1.51	0.018	0.05	0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
1196914	Soil	57	46	1.27	277	0.225	<1	2.96	0.010	1.42	<0.1	<0.01	4.5	0.8	<0.05	11	<0.5	<0.2
1196911	Soil	11	16	0.38	202	0.048	2	1.03	0.014	0.07	<0.1	0.05	1.9	<0.1	<0.05	5	<0.5	<0.2
1196920	Soil	24	48	1.19	393	0.198	<1	2.60	0.013	0.97	<0.1	0.02	6.0	0.6	<0.05	9	<0.5	<0.2
1196918	Soil	15	36	0.72	272	0.158	3	2.10	0.011	0.54	0.1	0.03	3.2	0.3	<0.05	7	<0.5	<0.2
1196690	Soil	14	39	0.80	294	0.122	2	2.52	0.024	0.06	<0.1	0.04	7.4	<0.1	<0.05	8	<0.5	<0.2
1196929	Soil	38	69	0.88	733	0.121	1	1.96	0.013	0.71	<0.1	0.03	3.5	0.5	0.20	8	5.6	<0.2
1196917	Soil	20	39	1.07	223	0.188	<1	2.41	0.011	0.69	<0.1	0.03	5.5	0.4	<0.05	9	<0.5	<0.2
1196909	Soil	17	32	0.78	243	0.126	<1	2.16	0.012	0.20	<0.1	0.02	5.2	0.2	<0.05	9	1.2	<0.2
1192096	Soil	15	37	0.67	345	0.119	1	1.80	0.017	0.24	0.1	0.03	6.5	0.1	<0.05	6	<0.5	<0.2
1192093	Soil	20	28	1.18	546	0.163	2	2.75	0.017	0.62	<0.1	0.04	6.3	0.2	<0.05	12	1.4	<0.2
1196655	Soil	13	35	0.53	308	0.090	2	1.41	0.016	0.13	<0.1	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
1196840	Soil	17	28	0.67	373	0.094	2	1.77	0.017	0.17	0.1	0.04	5.9	0.1	<0.05	6	<0.5	<0.2
1192099	Soil	21	33	0.90	727	0.082	<1	2.74	0.011	0.38	<0.1	0.02	14.6	0.4	<0.05	9	2.9	<0.2
1192092	Soil	13	17	1.43	392	0.248	<1	2.47	0.043	0.69	<0.1	0.02	9.0	0.3	<0.05	10	<0.5	<0.2
1192095	Soil	16	24	1.19	343	0.169	<1	2.42	0.020	0.66	<0.1	0.02	9.1	0.5	<0.05	9	<0.5	<0.2
1192098	Soil	10	40	0.89	415	0.112	1	1.87	0.015	0.16	0.1	0.02	3.6	0.1	<0.05	6	<0.5	<0.2
1192082	Soil	13	27	1.11	235	0.157	<1	1.93	0.023	0.33	<0.1	0.01	4.9	0.2	<0.05	6	<0.5	<0.2
1192158	Soil	21	21	0.70	241	0.142	<1	2.01	0.009	0.62	<0.1	<0.01	9.5	0.3	<0.05	8	<0.5	<0.2
1192097	Soil	9	54	1.94	528	0.232	1	2.90	0.027	0.85	<0.1	0.03	11.6	0.3	<0.05	9	<0.5	<0.2
1192100	Soil	15	26	0.47	302	0.058	<1	1.18	0.011	0.15	<0.1	0.02	2.4	0.2	<0.05	4	0.8	<0.2
1192078	Soil	65	61	1.41	236	0.115	<1	2.07	0.008	0.31	<0.1	0.02	6.1	0.3	<0.05	7	1.2	<0.2
1192081	Soil	35	66	0.83	204	0.086	<1	1.68	0.007	0.22	<0.1	0.02	9.3	0.3	<0.05	9	0.8	<0.2

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 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1192080	Soil	26.9	60.3	7.7	178	0.2	118.0	8.2	497	2.53	2.0	2.4	1.6	5.7	32	0.4	0.2	0.1	230	1.02	0.308
1192079	Soil	0.5	166.6	7.3	261	<0.1	7.9	8.5	496	4.39	4.0	1.1	2.5	6.0	19	0.2	0.2	<0.1	42	0.22	0.022
1192085	Soil	0.4	23.2	3.2	109	<0.1	10.5	20.7	758	5.07	4.7	0.4	<0.5	1.4	36	<0.1	0.2	<0.1	117	0.47	0.080
1192084	Soil	2.3	63.8	6.7	130	0.1	55.1	17.0	866	4.68	10.4	1.0	<0.5	2.7	22	0.2	0.2	<0.1	87	0.42	0.091
1192077	Soil	10.5	140.7	10.9	150	<0.1	69.7	14.9	438	4.14	4.7	5.3	<0.5	10.7	36	0.2	0.2	0.1	202	3.01	1.146
1192076	Soil	12.6	131.7	11.1	153	<0.1	70.7	14.5	432	4.03	4.1	5.1	<0.5	9.5	36	0.1	0.2	0.1	214	2.95	1.103
1192087	Soil	0.9	19.9	11.1	110	<0.1	13.4	7.1	556	3.27	6.0	0.8	<0.5	4.4	18	0.1	0.3	0.1	41	0.18	0.035
1192155	Soil	0.9	25.3	9.7	65	<0.1	23.2	8.6	324	3.23	10.6	1.3	2.9	6.4	20	<0.1	0.5	0.1	59	0.20	0.019
1192151	Soil	0.7	24.2	5.1	211	<0.1	6.4	10.7	706	5.68	1.5	1.4	<0.5	4.0	24	<0.1	0.3	<0.1	83	0.26	0.023
1192083	Soil	0.9	59.5	7.3	64	<0.1	20.6	15.0	397	3.53	5.6	0.5	0.8	2.7	33	<0.1	0.3	0.1	112	0.38	0.016
1192156	Soil	0.7	32.2	3.2	63	<0.1	11.1	12.9	434	3.57	2.8	0.9	0.8	4.2	16	<0.1	0.2	<0.1	106	0.34	0.044
1192089	Soil	0.8	45.0	6.8	72	<0.1	20.1	11.7	424	3.84	6.7	1.0	5.7	5.8	26	<0.1	0.4	0.1	59	0.36	0.049
1192153	Soil	4.2	53.1	22.4	137	<0.1	27.8	5.8	256	3.41	5.2	0.9	0.7	6.4	16	<0.1	0.2	0.4	81	0.10	0.031
1192152	Soil	0.6	34.3	23.1	329	<0.1	11.1	6.2	704	3.76	4.9	0.9	1.3	6.0	11	0.5	0.3	<0.1	45	0.12	0.021
1192090	Soil	0.8	49.7	7.8	55	0.2	27.7	10.5	375	2.53	8.6	0.6	6.5	3.3	64	0.2	0.5	<0.1	67	3.03	0.045
1192154	Soil	1.1	23.0	11.0	64	<0.1	22.8	9.3	439	2.65	8.4	0.5	2.5	4.6	21	0.1	0.5	0.2	60	0.24	0.037
1192091	Soil	0.8	28.6	7.6	72	<0.1	23.3	16.3	510	3.53	6.0	0.5	1.0	2.4	78	<0.1	0.2	0.1	87	0.69	0.024
1192157	Soil	0.6	25.7	7.7	94	<0.1	15.7	15.7	643	4.12	5.4	0.7	0.8	8.3	14	0.1	0.2	<0.1	114	0.22	0.037
1197283	Soil	0.8	24.9	8.2	131	<0.1	7.0	11.8	409	4.89	3.6	0.9	1.8	4.1	31	0.2	0.6	<0.1	38	0.59	0.087
1192159	Soil	1.0	25.3	10.7	89	<0.1	18.3	8.0	449	3.33	8.6	1.1	1.3	9.7	13	<0.1	0.5	0.1	49	0.12	0.026
1192160	Soil	2.5	52.4	12.7	118	<0.1	12.6	5.4	722	4.78	5.3	0.8	0.8	3.3	14	0.2	0.2	<0.1	33	0.28	0.036
1192094	Soil	0.5	34.7	7.5	77	<0.1	13.8	14.6	407	4.31	4.0	0.9	2.8	2.3	48	<0.1	0.3	<0.1	97	0.65	0.101
1197261	Soil	1.4	22.7	8.5	91	<0.1	16.3	11.2	762	4.20	15.0	1.1	4.8	2.0	34	0.2	1.9	<0.1	49	1.33	0.028
1197282	Soil	0.6	21.5	81.2	76	<0.1	11.9	4.5	348	3.24	5.6	2.2	2.1	4.8	19	<0.1	0.4	1.1	68	0.23	0.015
1197263	Soil	0.5	34.7	5.4	58	<0.1	28.5	17.0	856	4.17	7.4	0.6	3.6	3.9	38	0.1	0.6	<0.1	97	1.31	0.046
1197281	Soil	1.1	27.9	12.0	141	<0.1	14.0	8.6	843	4.35	5.2	1.7	1.9	7.5	16	<0.1	0.3	0.1	49	0.20	0.042
1197262	Soil	2.0	70.7	6.1	53	0.1	21.5	23.8	720	4.88	6.7	0.6	2.5	1.9	34	0.1	1.9	0.2	154	0.63	0.051
1197278	Soil	1.2	23.1	21.4	87	<0.1	18.7	11.5	759	4.21	5.9	1.4	1.1	7.9	22	0.1	0.3	0.2	51	0.28	0.042
1197264	Soil	0.6	21.5	7.2	43	<0.1	13.1	5.9	179	1.63	4.3	0.5	2.2	1.5	24	<0.1	0.5	<0.1	36	0.37	0.019
1197254	Soil	0.5	81.7	4.0	68	<0.1	14.1	22.7	1114	4.96	5.0	0.3	1.3	2.2	32	<0.1	0.3	<0.1	126	0.82	0.048

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Project: HEN  
 Report Date: July 19, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1192080	Soil	28	95	0.79	250	0.005	<1	1.70	0.007	0.05	<0.1	0.05	6.2	0.2	<0.05	9	0.6	<0.2
1192079	Soil	31	10	1.07	352	0.162	<1	2.32	0.011	0.65	<0.1	0.01	12.3	0.2	<0.05	10	<0.5	<0.2
1192085	Soil	4	13	1.67	391	0.237	<1	2.83	0.014	0.78	<0.1	<0.01	3.8	0.3	<0.05	8	<0.5	<0.2
1192084	Soil	15	106	1.85	355	0.186	<1	2.94	0.010	1.07	<0.1	0.01	4.4	0.5	<0.05	10	<0.5	<0.2
1192077	Soil	33	132	1.35	256	0.029	2	1.98	0.006	0.34	<0.1	0.01	7.2	0.3	<0.05	10	0.7	<0.2
1192076	Soil	31	143	1.40	262	0.027	<1	2.06	0.006	0.29	<0.1	<0.01	7.0	0.3	<0.05	10	0.7	<0.2
1192087	Soil	15	22	0.56	186	0.063	<1	1.62	0.008	0.21	<0.1	0.01	5.0	<0.1	<0.05	7	<0.5	<0.2
1192155	Soil	20	39	0.56	204	0.093	1	1.82	0.010	0.12	<0.1	0.03	7.2	<0.1	<0.05	6	0.9	<0.2
1192151	Soil	43	16	0.98	240	0.035	1	2.46	0.010	0.22	<0.1	0.05	14.5	0.1	<0.05	11	<0.5	<0.2
1192083	Soil	10	27	0.91	235	0.150	<1	2.31	0.022	0.09	<0.1	0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
1192156	Soil	14	35	0.85	369	0.104	1	1.99	0.014	0.48	<0.1	0.01	12.9	0.2	<0.05	7	<0.5	<0.2
1192089	Soil	23	23	0.90	408	0.172	1	2.10	0.011	0.70	<0.1	0.03	6.2	0.3	<0.05	8	0.5	<0.2
1192153	Soil	20	43	0.79	183	0.111	<1	1.47	0.005	0.53	<0.1	<0.01	2.9	0.6	<0.05	5	1.3	<0.2
1192152	Soil	10	21	0.69	231	0.128	<1	2.18	0.010	0.60	<0.1	0.04	11.7	0.2	<0.05	9	<0.5	<0.2
1192090	Soil	13	30	0.76	324	0.094	1	1.30	0.024	0.09	0.2	0.06	4.0	<0.1	<0.05	4	<0.5	<0.2
1192154	Soil	11	34	0.46	231	0.073	1	1.78	0.008	0.17	0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
1192091	Soil	8	43	1.27	312	0.181	1	2.59	0.019	0.52	<0.1	0.01	5.5	0.1	<0.05	8	<0.5	<0.2
1192157	Soil	22	47	1.30	440	0.205	<1	2.47	0.013	0.94	<0.1	<0.01	8.2	0.3	<0.05	9	<0.5	<0.2
1197283	Soil	15	6	0.73	708	0.077	1	1.74	0.022	0.22	<0.1	0.11	14.8	<0.1	<0.05	10	<0.5	<0.2
1192159	Soil	23	30	0.50	153	0.100	<1	1.80	0.009	0.29	0.1	0.01	7.1	0.2	<0.05	7	<0.5	<0.2
1192160	Soil	18	17	0.76	315	0.076	1	2.14	0.009	0.57	<0.1	0.02	12.6	0.1	<0.05	12	<0.5	<0.2
1192094	Soil	11	24	1.05	587	0.190	<1	2.09	0.019	0.41	<0.1	0.03	6.2	0.1	<0.05	9	<0.5	<0.2
1197261	Soil	6	16	0.31	947	0.007	13	1.13	0.009	0.14	<0.1	0.34	11.2	0.1	<0.05	3	<0.5	<0.2
1197282	Soil	27	18	0.39	107	0.030	<1	1.29	0.013	0.03	<0.1	0.04	10.5	<0.1	<0.05	5	<0.5	<0.2
1197263	Soil	11	30	1.02	930	0.101	7	1.55	0.020	0.53	<0.1	0.05	14.0	0.2	<0.05	5	<0.5	<0.2
1197281	Soil	33	25	0.51	149	0.123	<1	1.56	0.011	0.43	<0.1	0.02	13.2	0.1	<0.05	8	<0.5	<0.2
1197262	Soil	7	21	1.20	940	0.081	6	2.19	0.017	0.46	<0.1	0.50	18.6	0.3	<0.05	7	1.0	0.2
1197278	Soil	18	30	0.82	195	0.144	<1	2.10	0.011	0.75	<0.1	0.02	11.1	0.2	<0.05	9	<0.5	<0.2
1197264	Soil	7	14	0.33	515	0.004	7	1.50	0.009	0.18	<0.1	0.16	4.6	0.1	<0.05	5	<0.5	<0.2
1197254	Soil	7	22	1.61	668	0.095	<1	2.62	0.014	0.50	<0.1	0.14	16.6	0.2	<0.05	8	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1197258	Soil	0.6	38.1	9.9	49	0.1	30.7	11.3	413	2.59	10.4	0.7	3.8	4.5	33	0.1	0.5	0.2	58	0.52	0.053
1197265	Soil	0.9	37.2	8.1	49	0.1	26.1	16.8	438	3.67	10.7	0.7	2.0	3.7	37	<0.1	0.5	0.1	108	0.72	0.038
1197252	Soil	1.0	22.4	13.2	48	<0.1	23.7	9.1	275	2.50	12.8	0.5	4.2	3.6	20	<0.1	0.6	0.2	59	0.48	0.042
1197253	Soil	0.5	46.2	12.2	74	<0.1	36.5	16.7	502	4.40	17.9	0.7	5.7	3.0	35	<0.1	0.7	0.1	116	0.61	0.047
1197266	Soil	1.1	19.0	9.3	45	<0.1	22.3	10.0	340	2.64	9.4	0.8	19.3	3.9	29	<0.1	0.4	0.2	65	0.47	0.037
1197256	Soil	0.5	34.2	8.7	54	0.1	26.9	10.8	474	2.39	11.3	0.5	3.0	3.3	44	<0.1	0.6	0.1	51	0.98	0.076
1197255	Soil	0.6	35.7	9.1	54	0.1	26.9	11.2	478	2.49	11.2	0.5	6.3	3.6	52	0.1	0.6	0.1	55	1.43	0.074
1197257	Soil	0.5	37.6	11.6	51	0.1	27.7	11.2	422	2.52	10.1	0.7	3.3	4.3	32	0.2	0.5	0.2	57	0.51	0.053
1197271	Soil	0.5	39.9	16.4	250	<0.1	10.6	17.0	657	5.63	23.7	0.9	1.3	10.3	20	0.4	0.2	0.1	101	0.36	0.052
1197279	Soil	0.8	17.1	9.8	99	<0.1	11.5	6.7	759	4.26	5.0	1.1	1.2	5.5	15	<0.1	0.2	<0.1	32	0.19	0.046
1197268	Soil	0.7	37.1	12.0	55	<0.1	24.4	12.6	298	3.41	9.1	0.7	2.4	4.0	48	<0.1	0.6	0.2	76	0.97	0.036
1197251	Soil	0.4	176.7	126.4	663	0.1	17.1	22.8	899	4.69	4.0	0.4	2.4	1.2	27	0.8	0.4	<0.1	162	0.60	0.038
1197276	Soil	0.6	28.8	10.1	68	0.1	25.5	12.1	641	3.20	9.2	0.5	13.1	3.7	36	0.1	0.5	0.1	63	0.70	0.035
1197274	Soil	1.3	25.2	10.7	50	<0.1	17.5	13.0	457	3.41	24.1	0.9	4.7	3.7	29	<0.1	0.6	0.2	74	0.57	0.065
1197269	Soil	0.7	27.9	9.3	46	<0.1	26.9	12.0	362	2.63	10.8	0.7	5.2	4.8	28	<0.1	0.5	0.1	59	0.39	0.045
1197273	Soil	4.0	50.4	7.4	49	<0.1	4.7	9.3	211	3.61	29.6	0.7	<0.5	3.8	13	<0.1	0.4	1.1	72	0.37	0.088
1197272	Soil	0.8	27.7	34.0	399	0.3	8.1	24.7	891	5.81	4.0	0.7	1.0	2.9	22	3.4	0.4	0.3	160	0.54	0.049
1197275	Soil	0.9	29.3	12.9	372	0.4	12.3	16.8	1026	6.20	12.9	1.0	2.7	4.7	21	1.6	0.4	0.3	85	0.54	0.086
1197280	Soil	1.0	27.4	14.9	100	<0.1	16.8	6.5	499	3.38	5.9	1.1	3.5	5.8	17	<0.1	0.3	0.1	54	0.22	0.032
7797277	Soil	0.8	29.3	10.1	58	<0.1	22.2	8.8	368	2.71	8.4	0.8	3.6	5.3	25	<0.1	0.5	0.1	53	0.34	0.049



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197258	Soil	15	33	0.55	376	0.069	<1	1.40	0.025	0.05	0.2	0.05	5.1	<0.1	<0.05	4	<0.5	<0.2
1197265	Soil	14	36	0.90	570	0.079	4	2.13	0.025	0.09	<0.1	0.04	8.5	0.1	<0.05	7	<0.5	<0.2
1197252	Soil	13	32	0.43	1190	0.051	1	1.59	0.013	0.05	0.1	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
1197253	Soil	11	47	1.31	590	0.116	<1	2.24	0.018	0.26	<0.1	0.15	13.8	0.2	<0.05	9	<0.5	<0.2
1197266	Soil	13	35	0.52	381	0.071	<1	1.76	0.017	0.05	0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
1197256	Soil	13	26	0.60	288	0.062	1	1.08	0.023	0.05	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
1197255	Soil	14	26	0.64	280	0.066	2	1.12	0.025	0.06	0.2	0.05	3.9	<0.1	<0.05	3	<0.5	<0.2
1197257	Soil	15	30	0.53	366	0.066	1	1.33	0.025	0.05	0.1	0.05	4.7	<0.1	<0.05	4	<0.5	<0.2
1197271	Soil	33	19	1.11	555	0.221	1	2.42	0.015	0.90	<0.1	0.01	13.7	0.4	<0.05	11	<0.5	<0.2
1197279	Soil	42	16	0.64	228	0.177	<1	1.81	0.011	0.73	<0.1	0.01	18.6	0.2	<0.05	10	<0.5	<0.2
1197268	Soil	13	36	0.74	487	0.095	<1	2.32	0.025	0.12	<0.1	0.03	7.8	<0.1	<0.05	8	<0.5	<0.2
1197251	Soil	5	20	1.41	499	0.191	<1	2.25	0.025	0.70	<0.1	0.08	9.6	0.2	<0.05	7	<0.5	<0.2
1197276	Soil	15	27	0.61	315	0.075	2	1.57	0.020	0.13	0.1	0.05	6.3	0.1	<0.05	5	<0.5	<0.2
1197274	Soil	12	31	0.51	302	0.054	1	1.50	0.015	0.06	0.1	0.03	7.0	<0.1	<0.05	6	0.6	<0.2
1197269	Soil	17	35	0.51	427	0.066	<1	1.54	0.018	0.05	0.1	0.04	5.3	<0.1	<0.05	4	<0.5	<0.2
1197273	Soil	9	6	1.19	241	0.090	<1	2.34	0.009	0.42	<0.1	0.01	13.0	0.3	<0.05	8	1.2	0.4
1197272	Soil	7	13	1.16	504	0.131	<1	2.36	0.035	0.70	<0.1	0.10	14.3	0.2	<0.05	9	<0.5	<0.2
1197275	Soil	36	14	1.14	405	0.079	2	2.20	0.014	0.12	<0.1	0.23	20.4	<0.1	<0.05	12	<0.5	<0.2
1197280	Soil	27	26	0.50	195	0.100	<1	1.47	0.010	0.33	<0.1	0.02	12.4	0.1	<0.05	7	<0.5	<0.2
7797277	Soil	17	27	0.58	186	0.102	<1	1.26	0.018	0.14	0.2	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11000179A.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1192034	Soil	0.4	39.3	3.2	28	<0.1	15.6	10.6	202	2.12	3.5	0.3	<0.5	2.6	29	<0.1	0.2	<0.1	59	0.23	0.019
REP 1192034	QC	0.4	39.3	3.1	27	<0.1	14.7	10.8	190	2.09	3.6	0.3	1.0	2.6	28	<0.1	0.2	<0.1	59	0.21	0.019
1196801	Soil	1.2	12.8	10.4	60	<0.1	20.9	8.1	685	2.63	5.3	0.4	3.2	4.1	14	<0.1	0.4	0.1	56	0.15	0.026
REP 1196801	QC	1.3	13.3	10.2	65	<0.1	22.9	8.7	725	2.78	5.9	0.5	<0.5	4.5	14	<0.1	0.3	0.1	61	0.16	0.027
1196826	Soil	4.1	105.1	37.2	83	<0.1	30.5	10.4	288	4.03	4.7	1.5	2.8	8.5	30	<0.1	0.4	0.3	66	0.13	0.035
REP 1196826	QC	4.2	102.9	36.7	85	<0.1	31.3	10.6	290	4.07	4.7	1.5	1.4	8.4	30	<0.1	0.4	0.3	68	0.14	0.035
1197070	Soil	0.7	37.3	8.9	126	<0.1	12.5	6.5	585	3.93	2.4	0.6	<0.5	2.8	15	<0.1	0.2	0.1	63	0.19	0.046
REP 1197070	QC	0.9	37.7	8.9	129	<0.1	12.4	6.6	590	4.03	2.5	0.6	<0.5	2.9	15	<0.1	0.2	0.1	64	0.18	0.047
1197093	Soil	1.0	16.6	11.3	76	<0.1	21.3	11.4	824	3.24	6.6	0.5	0.9	4.1	23	0.1	0.3	0.1	66	0.30	0.045
REP 1197093	QC	0.9	17.2	10.8	75	<0.1	21.0	11.3	830	3.18	6.7	0.5	1.9	4.3	23	<0.1	0.4	0.1	66	0.31	0.046
1197089	Soil	1.0	40.0	10.2	59	<0.1	25.2	11.7	329	3.07	7.9	0.8	1.5	4.4	24	<0.1	0.5	0.2	82	0.32	0.041
REP 1197089	QC	1.0	39.2	9.9	59	<0.1	25.2	11.1	321	3.05	7.3	0.8	3.6	4.2	23	<0.1	0.4	0.2	81	0.29	0.039
1192110	Soil	1.1	41.8	27.5	71	0.1	25.5	15.4	616	4.28	9.2	0.7	2.1	4.7	27	<0.1	0.7	0.3	97	0.51	0.021
REP 1192110	QC	1.3	43.6	28.6	74	0.2	26.1	15.7	654	4.25	9.2	0.7	1.4	4.9	28	<0.1	0.7	0.3	98	0.52	0.021
1197140	Soil	0.6	34.3	6.9	51	0.2	25.2	10.8	434	2.40	9.7	0.5	3.5	2.7	44	0.1	0.5	<0.1	52	1.29	0.069
REP 1197140	QC	0.6	38.1	7.2	55	0.2	28.5	12.3	524	2.84	11.6	0.5	7.7	2.8	48	0.1	0.6	0.1	61	1.43	0.075
1193173	Soil	0.9	25.0	5.8	94	<0.1	16.0	18.8	842	5.31	7.4	1.2	1.6	8.0	25	<0.1	0.6	<0.1	112	0.39	0.049
REP 1193173	QC	0.8	25.6	5.7	93	<0.1	16.6	18.5	846	5.26	7.1	1.1	0.8	8.0	25	<0.1	0.5	<0.1	113	0.39	0.047
1196543	Soil	0.8	27.1	50.0	28	<0.1	12.5	6.3	408	1.61	5.7	1.0	2.7	13.6	12	<0.1	0.7	0.5	26	0.17	0.026
REP 1196543	QC	0.8	27.7	49.4	29	<0.1	12.4	6.3	415	1.63	5.5	1.0	2.7	13.4	12	<0.1	0.7	0.4	25	0.17	0.026
1196901	Soil	1.1	43.4	7.3	112	<0.1	19.7	15.4	651	4.94	8.2	1.0	2.7	3.8	41	<0.1	0.3	<0.1	112	0.43	0.048
REP 1196901	QC	1.2	43.2	7.0	107	<0.1	19.1	15.1	626	4.79	7.9	1.0	3.5	3.6	40	<0.1	0.3	<0.1	113	0.41	0.046
1192122	Soil	1.1	34.4	16.8	87	<0.1	26.0	13.8	582	3.49	9.0	0.5	<0.5	4.1	29	0.2	0.6	0.2	72	0.48	0.027
REP 1192122	QC	1.0	33.1	16.3	85	<0.1	25.1	13.0	556	3.31	9.1	0.5	0.8	3.9	28	<0.1	0.5	0.2	69	0.46	0.027
1196812	Soil	1.3	33.7	10.7	81	0.7	22.2	13.9	312	3.98	9.4	0.4	4.0	1.9	28	0.3	0.4	0.2	115	0.14	0.028
REP 1196812	QC	1.3	32.4	10.7	76	0.8	20.9	13.5	305	3.93	9.0	0.4	1.9	1.8	28	0.2	0.4	0.2	112	0.15	0.028
1196653	Soil	0.7	47.7	6.2	69	<0.1	26.0	18.1	543	3.98	7.0	0.7	0.6	4.0	28	<0.1	0.4	<0.1	105	0.43	0.047
REP 1196653	QC	0.6	50.0	5.9	72	<0.1	27.4	18.6	539	3.92	6.5	0.7	<0.5	4.0	28	<0.1	0.4	<0.1	104	0.44	0.044

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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000179A.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te		
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2		
Pulp Duplicates																			
1192034	Soil	11	32	0.84	129	0.137	<1	1.83	0.019	0.06	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2	
REP 1192034	QC	11	32	0.83	132	0.131	<1	1.81	0.017	0.06	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2	
1196801	Soil	10	32	0.40	240	0.062	<1	1.67	0.005	0.14	<0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2	
REP 1196801	QC	11	34	0.42	255	0.071	1	1.75	0.010	0.15	0.1	0.01	3.3	0.1	<0.05	6	<0.5	<0.2	
1196826	Soil	28	62	0.57	315	0.106	1	1.59	0.011	0.42	<0.1	0.01	6.5	0.3	0.08	7	1.1	<0.2	
REP 1196826	QC	27	64	0.58	313	0.106	1	1.62	0.011	0.43	<0.1	0.03	6.5	0.3	0.09	7	1.2	<0.2	
1197070	Soil	8	25	0.72	310	0.166	<1	1.97	0.008	0.91	<0.1	0.01	10.2	0.3	<0.05	8	<0.5	<0.2	
REP 1197070	QC	8	25	0.72	312	0.170	1	1.97	0.008	0.93	<0.1	0.01	10.4	0.3	<0.05	8	<0.5	<0.2	
1197093	Soil	9	34	0.68	270	0.123	2	1.73	0.018	0.39	0.1	0.01	4.1	0.1	<0.05	7	<0.5	<0.2	
REP 1197093	QC	9	33	0.69	275	0.126	1	1.73	0.014	0.39	<0.1	0.01	4.1	0.1	<0.05	7	<0.5	<0.2	
1197089	Soil	12	34	0.66	308	0.107	1	1.64	0.012	0.19	0.1	0.01	4.0	<0.1	<0.05	6	<0.5	<0.2	
REP 1197089	QC	11	35	0.66	303	0.102	1	1.61	0.011	0.20	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2	
1192110	Soil	23	33	0.87	261	0.085	2	1.79	0.015	0.19	0.1	0.04	11.0	0.1	<0.05	7	0.9	<0.2	
REP 1192110	QC	24	35	0.90	267	0.090	2	1.91	0.015	0.20	0.1	0.04	11.4	0.1	<0.05	7	0.9	<0.2	
1197140	Soil	11	23	0.68	268	0.067	2	1.16	0.026	0.06	0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2	
REP 1197140	QC	12	27	0.73	284	0.079	2	1.29	0.028	0.07	0.2	0.06	3.6	<0.1	<0.05	4	<0.5	<0.2	
1193173	Soil	14	25	1.51	257	0.143	2	2.76	0.010	0.69	<0.1	0.01	5.2	0.2	<0.05	9	<0.5	<0.2	
REP 1193173	QC	14	25	1.50	259	0.140	1	2.67	0.011	0.67	<0.1	0.01	5.1	0.2	<0.05	9	<0.5	<0.2	
1196543	Soil	13	17	0.22	164	0.007	1	0.99	0.009	0.10	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
REP 1196543	QC	13	17	0.22	171	0.007	1	0.98	0.009	0.09	<0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2	
1196901	Soil	27	34	1.14	558	0.189	<1	2.98	0.019	0.75	0.1	<0.01	6.9	0.2	<0.05	9	0.8	<0.2	
REP 1196901	QC	26	34	1.12	501	0.187	<1	2.78	0.019	0.72	0.1	0.01	7.0	0.2	<0.05	9	<0.5	<0.2	
1192122	Soil	14	32	0.67	497	0.088	4	1.75	0.016	0.29	0.2	0.03	7.2	<0.1	<0.05	6	<0.5	<0.2	
REP 1192122	QC	14	31	0.64	469	0.084	4	1.67	0.015	0.27	0.1	0.03	6.7	<0.1	<0.05	5	<0.5	<0.2	
1196812	Soil	6	32	0.80	435	0.133	1	2.69	0.013	0.19	<0.1	0.02	3.7	0.2	0.07	7	0.7	<0.2	
REP 1196812	QC	6	32	0.79	433	0.132	<1	2.66	0.014	0.19	<0.1	0.03	3.7	0.1	0.07	7	0.7	<0.2	
1196653	Soil	11	47	1.56	370	0.133	1	2.64	0.013	0.71	0.1	0.02	6.0	0.2	<0.05	8	<0.5	<0.2	
REP 1196653	QC	11	49	1.50	366	0.133	<1	2.54	0.012	0.70	0.1	0.02	6.5	0.2	<0.05	8	0.7	<0.2	

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Project: HEN  
 Report Date: July 19, 2011

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# QUALITY CONTROL REPORT

WHI11000179A.2

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
1196839	Soil	1.6	38.9	13.4	56	<0.1	34.6	10.8	276	3.08	13.8	0.8	0.8	5.9	26	<0.1	0.8	0.1	66	0.34	0.055
REP 1196839	QC	1.5	36.7	12.3	53	<0.1	32.9	10.4	263	2.94	13.9	0.7	4.0	5.7	25	<0.1	0.8	0.1	64	0.33	0.052
1192092	Soil	0.6	26.4	7.2	84	<0.1	20.4	15.0	389	4.94	6.8	0.6	<0.5	3.3	25	0.1	0.3	0.2	177	0.62	0.066
REP 1192092	QC	0.6	26.0	6.9	87	<0.1	19.8	14.8	382	4.97	6.4	0.6	0.9	3.3	25	<0.1	0.3	0.1	178	0.60	0.065
1192080	Soil	26.9	60.3	7.7	178	0.2	118.0	8.2	497	2.53	2.0	2.4	1.6	5.7	32	0.4	0.2	0.1	230	1.02	0.308
REP 1192080	QC	27.0	58.9	7.7	176	0.1	115.4	8.4	486	2.52	1.7	2.4	2.3	5.4	33	0.3	0.2	0.1	228	1.03	0.300
1192152	Soil	0.6	34.3	23.1	329	<0.1	11.1	6.2	704	3.76	4.9	0.9	1.3	6.0	11	0.5	0.3	<0.1	45	0.12	0.021
REP 1192152	QC	0.5	31.9	20.1	313	<0.1	9.2	5.4	654	3.45	4.1	0.8	1.3	5.6	9	0.5	0.3	<0.1	37	0.11	0.021
1197279	Soil	0.8	17.1	9.8	99	<0.1	11.5	6.7	759	4.26	5.0	1.1	1.2	5.5	15	<0.1	0.2	<0.1	32	0.19	0.046
REP 1197279	QC	0.7	17.0	9.9	101	<0.1	10.8	6.4	758	4.14	4.6	1.1	0.8	5.4	15	<0.1	0.2	<0.1	30	0.18	0.043
1197275	Soil	0.9	29.3	12.9	372	0.4	12.3	16.8	1026	6.20	12.9	1.0	2.7	4.7	21	1.6	0.4	0.3	85	0.54	0.086
REP 1197275	QC	0.9	29.6	12.4	365	0.3	13.1	16.1	1033	6.11	13.1	1.0	3.3	4.6	21	1.5	0.4	0.3	86	0.57	0.087
Reference Materials																					
STD DS8	Standard	14.3	111.4	125.7	322	1.9	39.4	8.0	666	2.63	29.0	2.7	123.6	6.7	65	2.4	6.0	6.7	45	0.69	0.081
STD DS8	Standard	13.9	102.6	115.8	309	1.7	37.0	7.6	607	2.42	27.1	2.5	149.1	6.3	63	2.4	5.6	6.1	43	0.66	0.083
STD DS8	Standard	14.9	120.0	132.7	323	1.9	41.8	8.1	623	2.51	27.3	2.9	120.7	7.2	64	2.3	5.4	6.5	45	0.69	0.077
STD DS8	Standard	14.7	119.1	130.2	318	1.8	40.4	8.0	612	2.46	26.5	2.8	110.5	7.1	62	2.5	5.4	6.4	45	0.68	0.075
STD DS8	Standard	14.3	124.0	134.9	325	1.8	42.0	8.0	622	2.49	26.1	2.9	109.5	7.0	62	2.3	5.3	6.5	45	0.68	0.081
STD DS8	Standard	15.1	118.2	135.1	319	1.8	40.8	8.1	624	2.43	25.9	2.9	113.1	7.1	62	2.3	5.3	6.3	45	0.68	0.077
STD DS8	Standard	13.3	95.4	110.6	304	1.7	38.8	7.9	620	2.42	28.2	2.3	108.6	6.0	54	2.1	5.0	5.8	42	0.70	0.076
STD DS8	Standard	13.3	98.7	103.9	311	1.7	39.1	7.8	624	2.45	28.6	2.4	106.2	6.2	57	2.2	4.9	5.9	43	0.72	0.079
STD DS8	Standard	13.3	91.6	116.9	301	1.8	36.5	7.4	618	2.45	28.0	2.4	107.5	5.9	56	2.5	4.9	6.1	41	0.70	0.080
STD DS8	Standard	13.4	95.0	107.6	306	1.8	38.8	7.7	633	2.50	29.6	2.4	105.8	6.0	60	2.5	5.1	5.9	42	0.70	0.080
STD DS8	Standard	13.5	122.1	131.4	341	1.8	41.8	8.2	622	2.52	26.1	2.7	123.3	6.7	61	2.3	5.6	6.7	44	0.67	0.080
STD DS8	Standard	13.8	113.4	127.3	336	1.9	39.3	7.7	613	2.44	25.4	2.8	118.2	6.9	62	2.3	5.5	6.7	43	0.67	0.080
STD DS8	Standard	14.0	114.0	131.7	315	1.9	42.1	8.5	632	2.56	24.8	2.9	110.2	6.9	60	2.4	5.3	6.6	48	0.68	0.085
STD DS8	Standard	15.5	121.6	133.0	352	1.9	42.8	8.5	669	2.68	26.8	3.0	115.6	7.5	68	2.5	6.0	6.8	50	0.74	0.085
STD DS8	Standard	13.1	110.2	119.3	296	1.7	39.2	7.7	600	2.39	24.8	2.5	106.1	6.3	54	2.1	5.1	6.0	44	0.67	0.070
STD DS8	Standard	13.2	110.9	123.9	300	1.8	39.5	8.0	601	2.39	25.0	2.7	105.3	6.8	56	2.3	4.9	6.2	44	0.70	0.068



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Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI11000179A.2

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
1196839	Soil	15	45	0.60	201	0.095	1	1.82	0.011	0.14	0.2	0.02	5.4	<0.1	<0.05	5	0.7	<0.2
REP 1196839	QC	15	44	0.58	195	0.090	2	1.69	0.011	0.14	0.1	0.02	5.1	<0.1	<0.05	5	0.7	<0.2
1192092	Soil	13	17	1.43	392	0.248	<1	2.47	0.043	0.69	<0.1	0.02	9.0	0.3	<0.05	10	<0.5	<0.2
REP 1192092	QC	12	17	1.42	375	0.245	<1	2.43	0.043	0.67	<0.1	0.02	9.1	0.3	<0.05	9	<0.5	<0.2
1192080	Soil	28	95	0.79	250	0.005	<1	1.70	0.007	0.05	<0.1	0.05	6.2	0.2	<0.05	9	0.6	<0.2
REP 1192080	QC	27	94	0.79	244	0.004	<1	1.73	0.007	0.05	0.1	0.03	6.0	0.2	<0.05	9	1.0	<0.2
1192152	Soil	10	21	0.69	231	0.128	<1	2.18	0.010	0.60	<0.1	0.04	11.7	0.2	<0.05	9	<0.5	<0.2
REP 1192152	QC	9	17	0.62	203	0.124	<1	1.91	0.007	0.56	<0.1	0.04	10.8	0.2	<0.05	8	<0.5	<0.2
1197279	Soil	42	16	0.64	228	0.177	<1	1.81	0.011	0.73	<0.1	0.01	18.6	0.2	<0.05	10	<0.5	<0.2
REP 1197279	QC	41	15	0.62	225	0.170	<1	1.76	0.012	0.73	<0.1	<0.01	18.4	0.2	<0.05	10	<0.5	<0.2
1197275	Soil	36	14	1.14	405	0.079	2	2.20	0.014	0.12	<0.1	0.23	20.4	<0.1	<0.05	12	<0.5	<0.2
REP 1197275	QC	36	14	1.13	396	0.079	1	2.23	0.013	0.12	<0.1	0.23	21.0	<0.1	<0.05	12	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	126	0.63	297	0.113	3	0.96	0.093	0.42	3.0	0.19	2.1	5.7	0.12	5	5.9	5.7
STD DS8	Standard	15	116	0.61	280	0.111	2	0.90	0.097	0.40	2.7	0.20	2.2	5.1	0.15	5	5.5	4.7
STD DS8	Standard	17	126	0.63	287	0.126	2	0.93	0.091	0.42	3.2	0.22	2.3	5.6	0.18	5	5.3	5.6
STD DS8	Standard	16	123	0.60	280	0.122	2	0.91	0.086	0.40	2.9	0.20	2.2	5.6	0.16	5	5.7	5.4
STD DS8	Standard	15	126	0.62	278	0.124	2	0.92	0.085	0.41	3.2	0.19	2.2	5.5	0.17	5	4.9	5.1
STD DS8	Standard	16	125	0.61	281	0.123	2	0.91	0.084	0.41	3.1	0.21	2.2	5.5	0.15	5	5.6	5.3
STD DS8	Standard	13	114	0.61	287	0.100	3	0.90	0.090	0.42	2.9	0.20	1.9	5.2	0.15	5	5.0	5.2
STD DS8	Standard	14	115	0.62	290	0.102	3	0.93	0.095	0.43	3.0	0.20	1.9	5.5	0.15	5	5.4	5.3
STD DS8	Standard	13	115	0.62	275	0.096	3	0.94	0.095	0.43	3.0	0.19	2.0	5.5	0.13	5	5.7	5.2
STD DS8	Standard	13	114	0.63	292	0.096	2	0.92	0.098	0.43	3.3	0.19	2.0	5.6	0.14	5	5.8	5.9
STD DS8	Standard	13	123	0.62	267	0.112	3	0.91	0.082	0.42	3.2	0.24	2.0	5.6	0.13	5	4.7	5.2
STD DS8	Standard	14	119	0.60	267	0.114	3	0.90	0.086	0.41	2.9	0.22	2.1	5.4	0.11	5	5.1	4.9
STD DS8	Standard	13	125	0.65	255	0.116	2	0.95	0.083	0.43	3.2	0.21	1.9	5.7	0.16	5	6.0	5.4
STD DS8	Standard	16	130	0.67	271	0.128	3	0.98	0.090	0.46	3.5	0.22	2.2	6.1	0.18	6	6.1	5.8
STD DS8	Standard	13	122	0.61	258	0.106	2	0.89	0.083	0.39	3.0	0.22	1.7	5.1	0.16	4	4.7	4.9
STD DS8	Standard	14	122	0.60	263	0.109	3	0.89	0.085	0.39	3.2	0.20	1.7	5.2	0.15	5	4.3	4.9



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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000179A.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8	Standard	13.9	116.2	127.2	316	1.9	39.5	7.8	614	2.44	24.6	2.7	110.6	6.8	61	2.2	5.3	6.1	42	0.66	0.078
STD DS8	Standard	13.4	113.4	123.3	302	1.8	38.9	7.7	591	2.37	24.5	2.7	111.7	6.5	58	2.3	5.1	6.0	41	0.65	0.076
STD DS8	Standard	14.3	113.5	136.2	324	1.8	39.1	7.9	620	2.47	26.1	3.2	120.4	7.7	72	2.4	5.8	7.1	43	0.72	0.078
STD DS8	Standard	15.1	114.0	138.1	330	1.9	39.5	7.6	628	2.52	26.9	3.2	125.0	7.8	73	2.5	6.2	7.1	44	0.73	0.079
STD DS8	Standard	13.6	113.2	127.3	306	1.8	40.4	7.7	617	2.43	26.2	2.8	115.2	6.7	64	2.2	5.6	6.4	44	0.68	0.077
STD DS8	Standard	13.7	115.7	127.8	311	1.9	39.2	7.9	628	2.48	26.4	2.9	118.6	6.8	66	2.4	5.6	6.5	43	0.70	0.077
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001





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Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000179A.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	15	122	0.61	273	0.119	3	0.89	0.089	0.42	3.0	0.20	2.2	5.3	0.14	5	5.4	5.4
STD DS8	Standard	14	119	0.60	260	0.115	3	0.86	0.079	0.40	2.8	0.20	2.2	5.1	0.15	4	5.2	5.4
STD DS8	Standard	16	118	0.65	291	0.120	4	0.92	0.085	0.41	3.0	0.20	2.2	5.8	0.15	5	4.8	5.8
STD DS8	Standard	17	119	0.67	294	0.124	3	0.93	0.086	0.43	3.2	0.23	2.3	5.9	0.16	5	5.2	4.9
STD DS8	Standard	15	121	0.61	285	0.121	3	0.93	0.102	0.44	3.1	0.21	2.6	5.5	0.16	5	4.9	5.0
STD DS8	Standard	15	124	0.62	280	0.120	4	0.95	0.113	0.45	3.0	0.22	2.5	5.6	0.18	5	4.6	5.0
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 08, 2011
Report Date: July 19, 2011
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI11000179B.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID: HEN01
P.O. Number
Number of Samples: 152

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

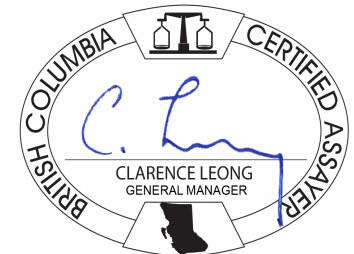
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179B.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196336	Soil	0.8	16.4	8.5	38	<0.1	14.2	7.2	234	2.07	5.1	0.4	2.4	2.1	25	0.1	0.4	0.2	50	0.43	0.025
1192211	Soil	0.8	145.1	7.2	58	<0.1	32.6	17.6	358	3.58	7.2	0.9	16.2	4.0	42	<0.1	0.5	0.1	89	0.60	0.037
1197270	Soil	0.2	31.9	3.9	133	<0.1	5.3	23.6	776	5.55	2.3	0.4	0.6	0.5	43	0.2	0.6	<0.1	90	0.81	0.128
1197267	Soil	1.0	52.6	10.0	67	<0.1	25.1	18.6	831	4.42	4.8	0.5	1.4	2.9	56	0.2	0.9	0.1	96	1.03	0.049
1196341	Soil	0.6	36.8	7.4	59	<0.1	14.5	15.5	710	5.87	4.1	1.1	2.0	4.5	38	0.1	0.3	0.2	60	0.65	0.093
1196328	Soil	0.7	18.8	9.7	45	<0.1	19.0	10.5	373	2.51	7.5	1.1	2.0	3.8	31	<0.1	0.4	0.2	57	0.50	0.041
1196334	Soil	0.6	23.5	8.8	48	<0.1	21.8	10.0	476	2.36	7.5	0.7	2.0	3.6	32	<0.1	0.5	0.2	52	0.58	0.062
1196333	Soil	1.3	11.4	6.8	64	<0.1	20.1	6.3	267	1.53	4.2	0.3	<0.5	3.4	46	<0.1	0.2	<0.1	109	0.61	0.104
1196320	Soil	0.5	54.2	6.9	51	<0.1	23.2	15.9	665	3.64	5.5	0.7	0.7	4.0	47	0.1	0.4	<0.1	93	1.45	0.070
1196330	Soil	0.9	12.3	9.0	41	<0.1	12.8	6.6	176	2.12	5.4	0.5	<0.5	2.4	24	0.1	0.3	0.2	59	0.34	0.024
1192214	Soil	0.7	23.3	9.2	54	<0.1	21.8	10.7	548	2.65	7.4	0.7	1.7	4.0	27	0.1	0.4	0.2	59	0.51	0.041
1193667	Soil	0.7	42.4	5.9	58	<0.1	28.5	18.3	497	3.84	6.2	0.7	<0.5	3.4	32	<0.1	0.4	<0.1	99	0.64	0.033
1196340	Soil	0.6	38.4	7.1	56	<0.1	15.8	14.7	665	5.61	4.7	1.1	<0.5	4.5	39	0.1	0.4	0.2	60	0.66	0.095
1196327	Soil	1.1	27.2	11.9	51	<0.1	13.0	12.5	609	3.33	3.9	0.4	0.6	1.7	22	0.1	0.4	0.1	100	0.41	0.033
1192215	Soil	0.6	200.4	5.6	49	<0.1	28.7	18.8	379	3.60	4.7	0.4	<0.5	2.2	69	<0.1	0.2	<0.1	95	1.04	0.043
1196335	Soil	0.7	24.5	9.0	50	<0.1	18.5	9.1	281	2.37	8.4	0.6	5.6	3.5	31	<0.1	0.4	0.2	55	0.52	0.056
1196437	Soil	0.8	25.0	11.3	38	<0.1	21.0	12.3	182	1.64	7.1	0.8	3.6	5.3	16	<0.1	0.5	0.2	45	0.22	0.017
1192239	Soil	1.0	36.4	13.6	48	<0.1	23.9	9.6	216	2.60	7.8	0.6	4.6	4.8	24	<0.1	0.7	0.2	60	0.44	0.021
1192244	Soil	0.8	37.5	13.1	86	<0.1	21.3	8.6	309	3.03	17.8	0.5	2.7	4.1	20	0.2	0.5	0.2	68	0.35	0.031
1192248	Soil	1.3	28.7	11.8	49	0.2	24.2	11.7	531	2.65	9.6	0.9	1.9	4.3	34	<0.1	0.7	0.2	63	0.52	0.045
1196442	Soil	1.0	44.8	10.6	50	<0.1	26.7	11.6	358	2.75	16.1	0.9	2.2	5.7	37	0.1	1.0	0.2	61	0.90	0.040
1196444	Soil	0.8	35.7	9.1	53	0.1	29.0	10.6	422	2.44	11.0	0.6	7.0	4.3	47	0.1	0.6	0.2	53	1.17	0.057
1192247	Soil	0.8	31.4	11.9	63	0.1	27.5	9.5	292	2.44	9.2	0.9	3.0	4.9	29	<0.1	0.6	0.2	55	0.43	0.044
1196441	Soil	1.2	44.7	10.9	74	<0.1	26.3	11.7	311	3.81	11.0	0.9	4.4	5.3	28	<0.1	0.7	0.2	68	0.42	0.038
1196436	Soil	0.8	35.4	11.2	51	0.1	27.9	10.3	357	2.37	10.0	0.5	3.9	4.3	44	0.2	0.7	0.2	54	1.54	0.040
1196439	Soil	0.9	46.3	9.9	50	<0.1	30.1	11.1	359	2.47	13.9	0.8	8.7	5.5	44	0.1	0.7	0.2	57	1.22	0.045
1192230	Soil	0.8	95.4	7.2	58	0.1	14.4	29.3	852	6.50	5.0	0.8	2.6	3.8	26	0.1	0.4	0.1	70	0.70	0.096
1192240	Soil	0.9	31.6	9.1	53	0.1	26.1	9.7	328	2.47	10.5	0.7	2.9	4.5	36	0.1	0.8	0.2	52	0.55	0.071
1192213	Soil	0.6	164.1	8.8	63	<0.1	16.0	26.0	449	5.70	4.0	1.2	2.6	5.0	28	0.1	0.3	0.1	102	0.54	0.085
1196440	Soil	0.7	43.1	9.6	58	0.2	31.5	11.0	431	2.52	11.0	0.6	5.0	4.1	40	<0.1	0.6	0.1	52	0.65	0.092

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179B.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1196336	Soil	9	25	0.43	217	0.060	1	1.22	0.017	0.08	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
1192211	Soil	12	69	1.16	232	0.140	1	2.16	0.018	0.11	<0.1	0.03	7.7	<0.1	<0.05	7	0.5	<0.2
1197270	Soil	4	5	1.37	730	0.148	2	2.18	0.011	0.63	<0.1	0.02	4.4	0.2	<0.05	7	<0.5	<0.2
1197267	Soil	9	34	0.93	686	0.047	3	2.17	0.017	0.11	<0.1	0.03	11.8	<0.1	<0.05	8	<0.5	<0.2
1196341	Soil	16	12	1.11	1623	0.126	2	2.51	0.016	0.47	<0.1	0.04	14.2	0.1	<0.05	12	<0.5	<0.2
1196328	Soil	12	28	0.48	374	0.054	<1	1.54	0.017	0.06	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
1196334	Soil	13	29	0.55	267	0.071	<1	1.35	0.022	0.08	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
1196333	Soil	6	65	2.54	324	0.095	1	2.94	0.019	0.68	<0.1	0.01	11.6	0.2	<0.05	9	<0.5	<0.2
1196320	Soil	12	34	1.36	478	0.198	<1	2.04	0.019	0.69	<0.1	0.02	7.3	0.2	<0.05	7	<0.5	<0.2
1196330	Soil	9	24	0.44	196	0.059	1	1.46	0.015	0.04	0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
1192214	Soil	12	33	0.57	300	0.072	2	1.63	0.020	0.08	0.1	0.02	4.4	<0.1	<0.05	5	0.5	<0.2
1193667	Soil	8	79	1.40	260	0.177	2	2.47	0.025	0.25	<0.1	<0.01	7.9	0.1	<0.05	8	<0.5	<0.2
1196340	Soil	15	13	1.06	1477	0.128	2	2.57	0.016	0.44	<0.1	0.04	14.3	0.1	<0.05	12	<0.5	<0.2
1196327	Soil	5	22	0.84	276	0.046	2	1.92	0.015	0.07	<0.1	0.03	7.7	<0.1	<0.05	7	0.5	<0.2
1192215	Soil	6	67	1.56	217	0.208	<1	2.94	0.017	0.21	<0.1	<0.01	4.6	<0.1	<0.05	8	<0.5	<0.2
1196335	Soil	12	29	0.56	221	0.072	2	1.40	0.022	0.07	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
1196437	Soil	14	26	0.32	175	0.053	<1	1.28	0.011	0.06	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
1192239	Soil	16	33	0.41	246	0.069	<1	1.88	0.014	0.05	0.1	0.05	4.8	<0.1	<0.05	5	<0.5	<0.2
1192244	Soil	10	22	0.47	228	0.065	<1	1.47	0.016	0.17	<0.1	0.04	4.2	0.1	<0.05	5	<0.5	<0.2
1192248	Soil	14	32	0.52	398	0.065	1	1.64	0.018	0.05	0.2	0.03	4.5	<0.1	<0.05	5	0.7	<0.2
1196442	Soil	19	28	0.45	272	0.053	1	1.76	0.017	0.06	<0.1	0.06	5.4	<0.1	<0.05	5	<0.5	<0.2
1196444	Soil	15	28	0.61	303	0.071	1	1.33	0.023	0.06	0.1	0.06	4.4	<0.1	<0.05	4	<0.5	<0.2
1192247	Soil	16	33	0.51	287	0.066	1	1.49	0.015	0.08	<0.1	0.06	5.0	<0.1	<0.05	4	<0.5	<0.2
1196441	Soil	20	29	0.69	308	0.097	<1	2.35	0.017	0.16	<0.1	0.04	8.1	<0.1	<0.05	8	<0.5	<0.2
1196436	Soil	15	31	0.59	262	0.079	1	1.49	0.020	0.06	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
1196439	Soil	18	30	0.56	265	0.054	1	1.90	0.018	0.06	<0.1	0.06	6.0	<0.1	<0.05	5	0.7	<0.2
1192230	Soil	18	15	0.93	552	0.087	2	1.96	0.015	0.26	<0.1	0.04	14.7	<0.1	<0.05	11	<0.5	<0.2
1192240	Soil	16	29	0.54	326	0.063	2	1.26	0.023	0.05	0.2	0.05	4.1	<0.1	<0.05	4	<0.5	<0.2
1192213	Soil	23	21	1.26	944	0.182	<1	2.48	0.019	0.76	<0.1	0.02	15.3	0.2	<0.05	11	<0.5	<0.2
1196440	Soil	15	27	0.60	316	0.062	1	1.17	0.025	0.07	0.1	0.06	4.3	<0.1	<0.05	3	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179B.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196438	Soil	0.9	36.2	11.6	46	0.1	27.0	10.7	310	2.25	9.4	0.7	3.6	4.7	46	<0.1	0.7	0.2	56	1.59	0.038
1192208	Soil	0.6	33.3	10.3	66	0.1	24.6	12.0	429	2.80	9.8	0.6	3.9	3.9	56	0.2	0.6	0.1	64	1.65	0.066
1192260	Soil	0.7	14.5	8.3	48	<0.1	21.0	8.3	250	2.40	9.0	0.5	9.5	3.6	28	<0.1	0.5	0.2	54	0.39	0.058
1192236	Soil	0.8	17.7	7.2	31	<0.1	11.3	5.7	170	1.57	4.5	0.5	1.6	2.7	15	<0.1	0.3	<0.1	32	0.20	0.020
1192281	Soil	0.6	23.6	8.9	48	0.1	19.6	10.2	329	2.59	7.1	1.3	4.7	3.1	39	<0.1	0.4	0.1	58	0.60	0.054
1192253	Soil	0.7	39.7	12.1	68	0.1	25.8	11.1	385	2.96	9.7	0.6	5.5	3.8	32	<0.1	0.7	0.2	67	0.68	0.047
1192268	Soil	0.6	27.3	10.0	53	0.1	24.2	9.5	453	2.28	10.2	0.5	3.0	3.2	36	0.2	0.6	0.2	43	0.65	0.086
1192282	Soil	0.4	19.9	7.0	62	<0.1	9.9	17.4	782	4.87	2.0	0.6	3.3	4.2	25	0.1	0.3	<0.1	62	0.59	0.118
1192256	Soil	0.8	20.1	12.6	73	<0.1	12.4	11.5	511	3.44	3.4	1.2	2.4	5.3	33	0.2	0.3	0.2	79	0.54	0.074
1192233	Soil	0.7	23.2	11.0	48	0.1	25.8	10.7	331	2.79	9.6	0.5	3.2	4.2	25	0.1	0.6	0.2	61	0.34	0.021
1196781	Soil	2.3	30.6	16.1	115	<0.1	15.4	10.3	424	3.38	5.5	1.5	1.9	10.9	20	0.1	0.4	0.2	71	0.23	0.032
1192270	Soil	0.6	30.6	9.5	58	<0.1	19.5	19.5	859	5.10	1.1	0.5	2.9	1.9	39	0.1	1.0	<0.1	112	0.68	0.059
1192271	Soil	0.4	35.8	6.9	62	<0.1	18.2	20.7	603	4.47	2.2	0.4	4.4	1.2	54	<0.1	0.1	<0.1	130	0.99	0.095
1192272	Soil	0.6	11.9	19.3	34	<0.1	15.7	11.8	247	3.00	4.9	0.3	3.4	1.6	23	<0.1	0.3	0.2	86	0.57	0.064
1196793	Soil	2.9	17.9	12.4	79	0.2	17.7	10.6	1063	3.30	10.0	0.5	1.2	2.9	22	0.2	0.4	0.2	86	0.19	0.113
1192264	Soil	0.5	78.8	6.6	120	<0.1	7.9	21.3	1541	5.89	0.7	1.3	2.0	3.7	32	<0.1	0.3	0.2	118	0.74	0.095
1192275	Soil	1.3	39.6	6.5	24	<0.1	13.7	9.5	166	1.87	5.5	0.3	1.7	1.7	20	<0.1	0.3	<0.1	55	0.41	0.026
1192280	Soil	0.8	83.5	14.2	90	<0.1	14.1	20.2	786	6.33	3.5	0.6	2.1	2.0	35	<0.1	0.2	0.1	204	0.44	0.052
1196779	Soil	2.6	74.9	14.8	108	<0.1	17.2	9.7	488	2.81	8.5	0.9	1.4	10.2	14	0.2	0.6	0.2	52	0.15	0.026
1196786	Soil	1.2	28.9	8.2	63	<0.1	25.0	13.1	365	3.67	8.8	0.4	1.1	2.7	19	<0.1	0.6	0.1	84	0.21	0.016
1196771	Soil	0.5	34.3	8.2	60	<0.1	20.1	12.5	347	2.89	6.7	0.4	4.0	3.4	33	<0.1	0.5	0.1	73	0.46	0.050
1196778	Soil	0.8	41.4	8.8	61	<0.1	20.4	12.9	443	4.15	8.3	1.4	2.3	12.1	22	<0.1	0.6	0.1	91	0.41	0.021
1196782	Soil	0.8	14.1	8.7	51	<0.1	19.2	9.1	798	2.39	7.3	0.4	1.2	3.0	19	<0.1	0.5	0.2	56	0.20	0.025
1196791	Soil	3.5	60.4	25.3	143	<0.1	36.2	8.8	279	4.43	9.4	1.0	<0.5	5.4	34	0.2	0.4	0.3	84	0.23	0.040
1196785	Soil	0.9	17.9	9.1	60	<0.1	22.2	9.1	318	2.83	10.8	0.7	4.0	4.1	21	<0.1	0.7	0.2	63	0.23	0.028
1196783	Soil	0.7	49.4	9.9	87	<0.1	28.9	19.0	640	3.92	7.5	0.8	0.6	4.6	43	0.1	0.5	0.1	105	0.54	0.065
1196769	Soil	0.8	32.2	12.6	58	<0.1	26.6	12.9	391	3.00	9.4	0.8	1.9	5.0	23	<0.1	0.7	0.2	69	0.29	0.018
1196772	Soil	0.6	34.3	6.0	59	<0.1	21.2	15.9	424	3.26	3.8	0.3	1.6	2.2	43	<0.1	0.3	0.1	92	0.46	0.044
1196787	Soil	0.9	15.0	8.1	42	0.1	15.1	7.9	219	2.74	6.8	0.4	3.5	2.2	21	<0.1	0.4	0.1	75	0.26	0.035
1196780	Soil	1.1	32.7	10.4	65	<0.1	21.5	8.9	441	2.87	12.3	0.6	0.9	4.7	23	<0.1	0.6	0.3	65	0.25	0.028



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1196438	Soil	16	29	0.53	279	0.063	2	1.51	0.018	0.06	<0.1	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
1192208	Soil	13	28	0.74	375	0.087	1	1.52	0.022	0.11	0.1	0.07	5.6	<0.1	<0.05	5	<0.5	<0.2
1192260	Soil	12	28	0.49	289	0.060	1	1.50	0.016	0.05	0.2	0.03	2.8	<0.1	<0.05	4	0.8	<0.2
1192236	Soil	9	15	0.23	99	0.041	<1	0.78	0.011	0.06	<0.1	<0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1192281	Soil	13	27	0.54	458	0.075	<1	1.63	0.021	0.06	0.2	0.05	4.1	<0.1	<0.05	5	0.6	<0.2
1192253	Soil	13	34	0.94	356	0.109	2	1.46	0.016	0.29	0.2	0.04	4.5	0.1	<0.05	5	<0.5	<0.2
1192268	Soil	12	23	0.58	279	0.055	1	1.02	0.023	0.05	0.1	0.04	3.0	<0.1	0.05	3	<0.5	<0.2
1192282	Soil	21	12	0.97	733	0.090	<1	1.89	0.011	0.50	<0.1	0.02	17.4	0.1	<0.05	10	0.5	<0.2
1192256	Soil	17	23	0.83	391	0.106	1	1.77	0.014	0.38	<0.1	0.02	5.6	0.2	<0.05	7	0.7	<0.2
1192233	Soil	14	33	0.61	411	0.077	2	1.43	0.014	0.20	0.2	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2
1196781	Soil	16	29	0.76	209	0.077	<1	2.08	0.007	0.42	0.1	0.02	6.2	0.2	<0.05	8	<0.5	<0.2
1192270	Soil	6	30	1.01	607	0.040	1	2.14	0.017	0.55	<0.1	0.09	17.1	0.1	<0.05	7	<0.5	<0.2
1192271	Soil	5	34	1.87	503	0.171	<1	2.59	0.027	0.34	<0.1	0.02	9.1	<0.1	<0.05	9	<0.5	<0.2
1192272	Soil	6	28	0.93	330	0.099	1	1.79	0.030	0.24	<0.1	<0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
1196793	Soil	10	35	0.52	173	0.083	1	1.44	0.008	0.15	0.1	0.01	2.4	0.1	<0.05	7	<0.5	<0.2
1192264	Soil	23	38	1.16	1290	0.090	<1	2.46	0.014	0.87	<0.1	0.03	19.4	0.2	<0.05	11	<0.5	<0.2
1192275	Soil	5	27	0.64	137	0.067	1	1.18	0.021	0.08	<0.1	0.01	5.1	<0.1	<0.05	3	<0.5	<0.2
1192280	Soil	11	20	2.22	1067	0.240	<1	3.19	0.023	1.45	<0.1	0.02	12.6	0.5	0.06	10	0.7	<0.2
1196779	Soil	7	25	0.30	208	0.045	1	1.41	0.008	0.09	<0.1	0.01	3.7	0.2	<0.05	5	<0.5	<0.2
1196786	Soil	7	44	1.18	225	0.144	1	2.38	0.010	0.26	<0.1	0.02	3.2	0.2	<0.05	7	<0.5	<0.2
1196771	Soil	12	35	0.92	241	0.129	1	1.85	0.019	0.22	0.1	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
1196778	Soil	24	37	0.79	232	0.131	<1	2.02	0.012	0.40	0.1	0.03	11.3	0.2	<0.05	7	0.6	<0.2
1196782	Soil	9	31	0.43	313	0.065	<1	1.43	0.010	0.08	0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
1196791	Soil	15	46	0.84	468	0.119	<1	2.05	0.011	0.31	<0.1	<0.01	5.4	0.2	0.06	7	1.4	<0.2
1196785	Soil	10	36	0.50	183	0.084	2	1.69	0.012	0.12	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1196783	Soil	10	54	1.38	305	0.151	1	2.38	0.016	0.26	0.1	0.01	6.3	<0.1	<0.05	8	<0.5	<0.2
1196769	Soil	16	39	0.60	220	0.097	1	1.64	0.016	0.11	0.1	0.03	5.7	0.1	<0.05	5	0.6	<0.2
1196772	Soil	8	42	1.30	186	0.195	<1	2.46	0.016	0.33	0.1	0.01	3.6	0.2	<0.05	7	<0.5	<0.2
1196787	Soil	9	29	0.58	199	0.108	1	1.79	0.012	0.09	0.1	0.02	2.8	<0.1	<0.05	6	0.6	<0.2
1196780	Soil	10	34	0.50	329	0.066	2	1.82	0.009	0.11	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179B.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1196775	Soil	1.0	18.6	9.3	66	<0.1	21.2	9.0	263	2.85	8.7	0.6	1.2	4.2	20	<0.1	0.6	0.2	65	0.22	0.036
1196773	Soil	0.4	48.8	4.6	54	<0.1	23.2	17.2	493	3.28	4.6	0.5	0.7	2.5	59	<0.1	0.3	<0.1	93	0.69	0.061
1196792	Soil	1.3	23.4	10.2	55	<0.1	24.0	9.7	338	2.64	6.1	0.6	1.8	4.2	27	<0.1	0.4	0.2	62	0.29	0.028
1196774	Soil	1.1	13.0	8.8	47	<0.1	17.6	9.1	606	2.51	6.9	0.4	0.7	2.7	16	0.1	0.5	0.1	66	0.17	0.024
1192274	Soil	0.5	44.4	5.2	74	<0.1	18.7	14.5	538	3.82	7.0	0.8	7.6	2.9	28	<0.1	0.4	<0.1	93	0.39	0.049
1192237	Soil	1.3	13.6	8.4	47	<0.1	19.3	8.3	211	2.61	9.7	0.4	1.6	2.8	23	<0.1	0.5	0.1	61	0.24	0.047
1192269	Soil	0.9	13.1	9.2	45	<0.1	19.1	9.1	293	2.55	7.3	0.5	3.5	3.5	21	<0.1	0.5	0.2	64	0.26	0.023
1197169	Soil	0.6	36.9	7.5	46	0.2	23.5	9.3	360	2.18	10.8	0.6	7.3	2.6	92	0.2	0.8	0.1	47	4.76	0.086
1192259	Soil	0.8	14.6	8.3	43	<0.1	19.7	9.0	243	2.40	8.3	0.6	3.2	3.7	29	<0.1	0.5	0.1	54	0.41	0.049
1192276	Soil	0.9	89.0	4.2	25	<0.1	21.9	17.4	323	3.34	1.8	1.0	2.0	3.9	20	<0.1	0.2	<0.1	124	0.76	0.084
1192234	Soil	0.5	32.5	10.7	53	<0.1	40.4	17.9	555	3.61	2.7	0.4	0.8	2.4	31	<0.1	0.2	0.1	103	0.52	0.041
1192279	Soil	0.7	39.6	9.4	63	<0.1	20.0	10.5	332	2.89	7.4	0.4	3.3	3.3	26	0.1	0.5	0.1	75	0.41	0.043
1192255	Soil	0.8	23.1	12.8	55	<0.1	16.9	13.7	338	3.43	3.1	0.3	<0.5	1.9	22	<0.1	0.2	0.2	99	0.32	0.017
1192242	Soil	1.0	29.9	10.0	93	<0.1	22.8	12.2	229	2.25	11.1	1.5	3.2	5.6	19	0.2	0.5	0.2	63	0.22	0.017
1192278	Soil	1.5	53.1	12.4	125	0.1	19.6	15.9	862	4.69	15.8	1.1	2.6	5.6	26	0.2	0.5	0.1	125	0.45	0.059
1192235	Soil	1.0	11.6	8.4	43	<0.1	13.8	7.1	247	2.10	7.2	0.6	2.0	2.4	22	0.1	0.4	0.2	50	0.33	0.040
1192254	Soil	0.6	43.2	6.9	49	0.1	26.8	12.6	539	2.72	8.5	0.4	5.3	1.9	103	0.1	0.5	0.1	67	3.90	0.073
1192258	Soil	1.1	21.6	10.5	58	<0.1	22.4	11.9	322	2.71	9.9	0.7	3.6	3.7	28	0.1	0.6	0.2	54	0.41	0.057
1192277	Soil	1.0	11.2	8.7	49	<0.1	16.5	6.8	207	2.11	7.3	0.3	1.4	2.6	17	<0.1	0.5	0.1	49	0.21	0.011
1192273	Soil	1.1	24.5	10.2	56	<0.1	24.0	10.7	320	2.69	10.9	0.5	1.9	4.1	22	<0.1	0.7	0.2	61	0.34	0.029
1196435	Soil	0.8	25.0	9.1	58	0.1	23.0	8.2	338	2.17	7.8	0.8	2.9	2.8	32	0.2	0.5	0.2	44	0.54	0.078
1192238	Soil	0.8	19.7	8.3	47	<0.1	20.9	8.6	252	2.19	8.3	0.7	2.5	3.4	27	<0.1	0.4	0.2	49	0.47	0.063
1197502	Soil	0.1	41.8	2.1	62	<0.1	24.9	21.0	597	3.65	1.9	0.5	1.3	1.7	62	<0.1	0.1	<0.1	105	1.10	0.082
1197512	Soil	0.5	58.1	32.2	75	<0.1	24.9	15.3	399	3.33	5.9	0.9	3.8	3.2	37	<0.1	0.4	0.3	93	0.60	0.063
1192209	Soil	0.8	34.7	9.4	64	0.1	23.8	10.7	422	2.71	8.7	0.6	2.8	3.5	55	0.2	0.6	0.2	57	1.62	0.062
1196443	Soil	0.7	39.9	8.2	50	<0.1	33.0	10.6	447	2.48	11.7	0.6	5.9	3.7	34	<0.1	0.7	0.2	49	0.60	0.060
1197511	Soil	0.7	123.4	4.1	107	<0.1	8.2	17.4	702	5.76	2.9	1.0	2.4	2.7	20	<0.1	0.1	<0.1	153	0.63	0.107
1197518	Soil	0.9	68.4	13.2	86	0.1	25.4	14.4	591	3.65	19.4	0.7	5.4	4.2	93	0.2	0.7	0.2	78	2.75	0.054
1192241	Soil	1.5	33.0	17.5	52	0.1	31.3	10.6	379	2.53	10.6	0.8	3.3	3.8	31	0.1	0.7	0.2	59	0.47	0.052
1192210	Soil	0.9	30.8	8.0	54	0.1	26.1	10.8	451	2.53	10.2	0.8	5.0	3.5	39	0.2	0.6	0.1	50	0.80	0.075

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179B.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1196775	Soil	11	38	0.55	191	0.079	1	1.80	0.009	0.14	0.1	<0.01	4.0	<0.1	<0.05	5	0.5	<0.2
1196773	Soil	9	41	1.38	239	0.178	<1	2.29	0.020	0.43	0.1	<0.01	5.3	0.2	<0.05	7	0.5	<0.2
1196792	Soil	13	34	0.51	274	0.093	<1	1.56	0.013	0.09	0.1	0.01	3.0	<0.1	<0.05	5	0.7	<0.2
1196774	Soil	9	31	0.43	235	0.073	1	1.51	0.011	0.06	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
1192274	Soil	12	19	1.30	391	0.184	<1	1.99	0.018	0.84	0.1	0.04	6.4	0.3	<0.05	6	<0.5	<0.2
1192237	Soil	10	31	0.47	232	0.058	1	1.63	0.011	0.07	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
1192269	Soil	11	33	0.45	304	0.060	<1	1.72	0.012	0.04	0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
1197169	Soil	13	23	0.65	376	0.061	2	0.94	0.026	0.06	0.2	0.05	2.6	<0.1	0.05	3	<0.5	<0.2
1192259	Soil	13	29	0.47	293	0.060	<1	1.39	0.015	0.05	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
1192276	Soil	11	42	1.57	294	0.164	<1	1.91	0.038	0.12	<0.1	0.03	8.0	<0.1	<0.05	7	<0.5	<0.2
1192234	Soil	7	106	1.74	991	0.154	<1	2.28	0.016	0.71	<0.1	0.02	6.2	0.1	<0.05	8	<0.5	<0.2
1192279	Soil	10	29	0.80	442	0.103	<1	1.65	0.015	0.17	0.2	0.04	5.4	<0.1	<0.05	5	<0.5	<0.2
1192255	Soil	6	35	1.18	906	0.148	<1	2.14	0.016	0.29	<0.1	<0.01	4.9	<0.1	<0.05	8	<0.5	<0.2
1192242	Soil	15	22	0.26	184	0.040	<1	1.18	0.005	0.12	<0.1	0.04	5.1	<0.1	<0.05	4	<0.5	<0.2
1192278	Soil	11	48	1.35	1077	0.153	<1	2.50	0.013	0.76	<0.1	0.08	11.5	0.4	<0.05	9	0.7	<0.2
1192235	Soil	8	22	0.41	288	0.046	<1	1.25	0.011	0.04	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
1192254	Soil	9	26	1.20	879	0.084	3	1.35	0.036	0.35	0.1	0.04	4.0	0.1	<0.05	5	0.6	<0.2
1192258	Soil	11	29	0.57	293	0.061	1	1.51	0.014	0.09	0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
1192277	Soil	8	27	0.42	255	0.052	<1	1.19	0.007	0.04	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1192273	Soil	11	36	0.52	335	0.068	1	1.46	0.011	0.12	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
1196435	Soil	12	26	0.45	321	0.042	1	1.17	0.016	0.04	0.2	0.04	3.1	<0.1	<0.05	4	0.6	<0.2
1192238	Soil	12	26	0.45	291	0.043	<1	1.32	0.013	0.04	0.2	0.04	3.2	<0.1	<0.05	4	0.5	<0.2
1197502	Soil	6	76	1.48	166	0.191	<1	2.32	0.042	0.46	<0.1	0.01	7.5	<0.1	<0.05	8	<0.5	<0.2
1197512	Soil	14	58	1.00	331	0.101	<1	1.78	0.026	0.13	<0.1	0.03	9.1	<0.1	<0.05	7	0.6	<0.2
1192209	Soil	13	24	0.67	461	0.077	1	1.42	0.017	0.14	0.1	0.04	4.8	0.1	<0.05	5	<0.5	<0.2
1196443	Soil	15	27	0.51	282	0.051	<1	1.18	0.018	0.05	0.2	0.05	4.0	<0.1	<0.05	4	<0.5	<0.2
1197511	Soil	11	15	1.33	403	0.166	<1	2.18	0.032	0.74	<0.1	<0.01	12.2	0.2	<0.05	10	<0.5	<0.2
1197518	Soil	15	30	0.99	808	0.115	1	1.89	0.029	0.22	0.1	0.04	6.1	0.1	<0.05	7	0.7	<0.2
1192241	Soil	14	36	0.48	325	0.074	2	1.55	0.018	0.05	0.2	0.03	3.8	<0.1	<0.05	5	0.7	<0.2
1192210	Soil	14	25	0.60	357	0.065	2	1.23	0.021	0.08	0.2	0.05	3.9	<0.1	<0.05	4	0.6	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179B.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197048	Soil	0.3	62.4	3.0	67	<0.1	23.4	23.2	519	3.81	2.0	0.4	1.0	0.9	78	<0.1	0.1	<0.1	114	1.04	0.060
1197506	Soil	0.4	49.9	5.9	56	<0.1	31.9	19.5	472	3.75	5.8	0.8	2.8	4.5	52	<0.1	0.4	<0.1	119	1.08	0.047
1192249	Soil	0.2	11.3	5.2	137	<0.1	5.8	7.4	278	2.48	0.9	0.6	0.9	2.7	22	<0.1	0.1	<0.1	65	0.22	0.006
1192250	Soil	0.5	25.5	8.3	214	<0.1	14.0	7.7	772	4.31	5.0	0.6	1.4	4.8	19	0.2	0.3	0.1	40	0.33	0.043
1192243	Soil	1.1	31.6	12.2	59	<0.1	25.6	11.2	442	2.33	12.4	0.5	12.6	3.6	35	0.2	0.6	0.1	62	1.34	0.032
1197503	Soil	0.2	37.6	3.6	46	<0.1	28.9	37.6	633	4.06	2.5	0.4	1.8	4.9	42	<0.1	0.2	<0.1	94	0.93	0.064
1197516	Soil	0.9	49.7	8.4	137	<0.1	28.5	15.8	553	4.45	8.3	1.2	1.8	4.1	51	0.1	0.5	0.1	132	0.53	0.071
1197514	Soil	0.5	51.3	16.0	79	<0.1	18.7	11.8	411	3.40	6.4	0.8	4.2	7.5	25	<0.1	0.5	0.2	77	0.42	0.040
1197039	Soil	0.6	16.5	77.0	70	<0.1	15.8	12.3	683	2.44	2.4	0.5	1.8	3.4	36	<0.1	0.3	2.2	47	0.56	0.038
1197504	Soil	1.1	16.4	22.4	65	<0.1	26.2	13.4	319	2.71	5.1	0.6	3.1	3.6	44	<0.1	0.3	<0.1	79	0.61	0.058
1197520	Soil	1.3	56.1	10.8	81	0.2	38.9	13.5	535	2.99	17.2	0.6	5.5	4.4	81	0.4	1.2	0.2	62	2.72	0.071
1197501	Soil	0.3	144.7	5.1	80	<0.1	28.7	23.9	924	5.01	3.7	0.4	2.8	1.6	101	0.1	0.3	<0.1	151	1.49	0.068
1197505	Soil	0.9	10.5	12.9	40	<0.1	18.8	9.0	323	1.93	4.7	0.5	1.8	3.8	39	<0.1	0.3	<0.1	47	0.53	0.061
1197041	Soil	1.2	16.0	9.1	63	<0.1	18.9	10.1	357	3.18	7.5	0.9	3.0	3.5	22	0.1	1.3	0.1	76	0.22	0.029
1197515	Soil	0.9	44.8	14.4	163	<0.1	21.6	13.6	456	4.28	22.2	1.1	2.0	4.1	40	0.2	0.5	0.2	116	0.55	0.060
1197519	Soil	0.8	55.7	13.0	85	<0.1	25.0	14.4	507	3.36	9.1	0.6	1.9	5.0	33	<0.1	0.7	0.2	71	0.46	0.047
1197513	Soil	0.6	25.8	10.4	58	<0.1	17.5	7.3	265	2.60	7.1	1.3	1.1	10.8	20	0.2	0.5	0.1	38	0.27	0.039
1197042	Soil	0.5	71.7	8.3	114	<0.1	29.8	33.5	1254	6.21	18.2	0.5	0.8	1.6	64	<0.1	2.0	<0.1	148	0.91	0.053
1197517	Soil	0.5	35.3	8.0	47	0.1	20.7	9.3	335	2.04	6.8	0.7	3.1	2.5	151	0.2	0.6	0.1	45	7.39	0.057
1197510	Soil	0.6	30.2	16.8	53	<0.1	23.7	8.9	284	2.66	9.9	0.9	4.3	4.6	25	<0.1	0.7	0.2	52	0.34	0.041
1197509	Soil	1.1	18.8	10.1	58	<0.1	22.8	9.2	272	2.37	9.0	0.9	4.8	4.8	26	<0.1	0.8	0.2	49	0.42	0.027
1197045	Soil	0.5	31.6	10.1	48	0.2	28.7	10.1	368	2.42	9.0	0.4	3.4	3.1	36	<0.1	0.6	0.2	49	0.66	0.056
1197044	Soil	0.7	98.6	59.3	145	<0.1	18.9	27.0	1241	5.99	4.2	0.6	<0.5	4.1	63	0.6	2.2	<0.1	124	0.54	0.042
1197043	Soil	0.9	23.2	10.8	47	<0.1	17.3	8.8	185	2.71	8.5	0.4	3.0	2.5	24	<0.1	0.6	0.1	65	0.28	0.028
1196326	Soil	0.5	22.7	92.6	59	<0.1	23.7	15.3	523	3.45	7.0	1.0	1.9	3.2	42	<0.1	0.4	0.3	86	0.61	0.063
1196324	Soil	0.6	30.5	6.5	44	<0.1	16.0	9.0	505	3.90	3.1	0.6	0.6	6.6	18	<0.1	0.5	<0.1	105	0.37	0.057
1197046	Soil	0.2	8.1	8.3	22	<0.1	6.4	4.2	106	0.88	2.1	0.3	1.4	1.2	92	<0.1	0.3	<0.1	22	0.37	0.007
1197037	Soil	0.8	16.5	9.1	45	<0.1	16.5	8.9	296	2.44	5.7	0.7	1.7	3.0	26	<0.1	0.4	0.1	56	0.43	0.037
1197049	Soil	0.3	60.2	9.0	60	<0.1	24.4	21.0	511	3.72	2.7	0.3	<0.5	1.1	52	<0.1	0.1	<0.1	108	0.83	0.057
1196322	Soil	0.4	16.5	4.7	31	<0.1	22.4	12.3	425	2.58	4.7	0.4	4.7	3.3	24	<0.1	0.3	<0.1	72	0.60	0.088

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197048	Soil	4	60	1.38	411	0.270	<1	2.32	0.060	0.37	<0.1	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
1197506	Soil	15	84	1.24	196	0.225	<1	2.38	0.038	0.08	<0.1	0.03	9.1	<0.1	<0.05	9	0.6	<0.2
1192249	Soil	14	7	0.76	289	0.094	<1	1.93	0.010	0.61	<0.1	0.02	3.4	0.2	<0.05	10	<0.5	<0.2
1192250	Soil	17	19	1.02	597	0.162	<1	2.05	0.012	0.94	<0.1	0.14	10.8	0.2	<0.05	10	0.5	<0.2
1192243	Soil	12	28	0.52	249	0.072	<1	1.37	0.016	0.07	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
1197503	Soil	13	76	1.45	363	0.217	<1	2.49	0.052	0.55	<0.1	0.01	6.8	<0.1	<0.05	8	<0.5	<0.2
1197516	Soil	16	67	1.55	3633	0.245	<1	2.46	0.033	0.61	0.1	0.03	7.2	0.3	<0.05	9	0.7	<0.2
1197514	Soil	22	27	0.90	334	0.153	<1	2.02	0.016	0.50	<0.1	0.03	5.9	0.2	<0.05	8	<0.5	<0.2
1197039	Soil	10	14	0.72	283	0.043	<1	1.67	0.009	0.18	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
1197504	Soil	10	72	0.90	216	0.115	<1	1.95	0.032	0.17	<0.1	0.01	5.7	<0.1	<0.05	7	<0.5	<0.2
1197520	Soil	14	30	0.80	441	0.058	2	1.44	0.033	0.15	0.1	0.09	4.0	0.1	<0.05	5	<0.5	<0.2
1197501	Soil	5	105	1.70	114	0.281	1	3.12	0.040	0.24	<0.1	<0.01	10.7	<0.1	<0.05	11	0.7	<0.2
1197505	Soil	9	47	0.51	188	0.057	<1	1.51	0.024	0.07	0.1	<0.01	5.4	<0.1	<0.05	5	0.5	<0.2
1197041	Soil	11	32	0.61	190	0.034	<1	1.78	0.009	0.04	0.1	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
1197515	Soil	15	50	1.52	614	0.167	<1	2.28	0.016	0.67	<0.1	0.02	7.2	0.3	<0.05	8	1.0	<0.2
1197519	Soil	16	32	0.82	489	0.112	<1	1.78	0.018	0.19	0.1	0.04	5.9	0.1	<0.05	6	<0.5	<0.2
1197513	Soil	26	21	0.52	197	0.072	<1	1.24	0.011	0.23	0.1	0.02	4.6	0.1	<0.05	6	0.7	<0.2
1197042	Soil	4	77	2.21	153	0.051	2	3.03	0.018	0.03	<0.1	0.01	17.6	<0.1	<0.05	10	<0.5	<0.2
1197517	Soil	9	22	0.92	565	0.064	1	0.96	0.023	0.07	0.1	0.05	3.5	<0.1	<0.05	3	<0.5	<0.2
1197510	Soil	14	31	0.53	273	0.062	<1	1.22	0.012	0.05	0.2	0.02	5.6	<0.1	<0.05	4	<0.5	<0.2
1197509	Soil	16	33	0.46	442	0.053	<1	1.30	0.012	0.06	0.2	0.03	4.7	<0.1	<0.05	4	0.8	<0.2
1197045	Soil	13	29	0.55	443	0.047	<1	1.24	0.026	0.04	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
1197044	Soil	9	33	2.10	158	0.015	<1	2.72	0.007	0.03	<0.1	<0.01	9.2	<0.1	<0.05	10	<0.5	<0.2
1197043	Soil	8	31	0.55	231	0.050	<1	1.64	0.015	0.04	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
1196326	Soil	9	36	1.16	255	0.046	<1	1.77	0.016	0.04	0.1	0.02	10.5	<0.1	<0.05	9	0.5	<0.2
1196324	Soil	8	22	0.56	312	0.098	<1	1.41	0.009	0.22	0.1	0.02	9.0	<0.1	<0.05	6	0.9	<0.2
1197046	Soil	4	14	0.23	76	0.032	<1	0.90	0.013	0.02	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1197037	Soil	10	25	0.52	256	0.059	1	1.43	0.016	0.05	0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1197049	Soil	4	80	1.37	317	0.267	<1	2.29	0.021	0.62	<0.1	<0.01	5.2	0.1	<0.05	8	<0.5	<0.2
1196322	Soil	10	27	1.21	513	0.173	<1	1.61	0.024	0.54	<0.1	<0.01	5.2	0.2	<0.05	5	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1197038	Soil		0.3	14.5	7.0	53	<0.1	14.0	10.7	560	2.84	3.1	0.9	1.4	4.2	23	<0.1	0.5	0.1	67	0.50	0.037
1197508	Soil		1.0	9.1	10.3	47	<0.1	15.3	8.7	675	2.03	5.5	0.4	1.7	2.3	27	<0.1	0.5	0.2	51	0.50	0.020
1197040	Soil		0.6	19.7	80.3	73	<0.1	16.9	11.8	497	2.67	3.1	0.7	1.5	4.6	34	<0.1	0.3	1.7	50	0.50	0.040
1196325	Soil		0.6	42.5	8.7	68	<0.1	25.4	30.2	829	5.63	4.1	0.8	1.9	2.2	38	<0.1	0.4	<0.1	166	0.66	0.073
1197047	Soil		0.2	9.6	6.2	24	<0.1	7.7	4.9	114	1.06	2.5	0.3	<0.5	1.3	101	<0.1	0.3	<0.1	27	0.37	0.008
1197050	Soil		0.2	61.7	3.8	69	<0.1	22.6	22.3	482	3.69	2.0	0.2	<0.5	1.1	71	<0.1	<0.1	<0.1	117	1.00	0.072
1197507	Soil		0.5	41.7	5.9	102	<0.1	28.9	25.3	608	5.51	2.6	1.7	0.5	5.4	77	0.1	0.2	<0.1	166	0.79	0.050
1196323	Soil		0.6	30.3	13.4	50	<0.1	25.5	12.3	473	2.66	8.4	0.5	4.4	3.1	32	0.1	0.5	0.1	61	0.58	0.066
1197134	Soil		1.1	20.8	10.6	50	0.1	21.9	11.1	393	2.49	8.1	0.5	1.5	3.8	19	<0.1	0.5	0.2	55	0.23	0.021
1196329	Soil		0.9	12.3	9.6	46	<0.1	16.6	9.4	254	2.71	6.5	0.4	0.6	2.6	22	<0.1	0.3	0.1	63	0.29	0.024
1192220	Soil		1.1	30.3	10.9	55	<0.1	21.6	11.8	380	2.96	6.3	1.1	1.7	6.3	29	<0.1	0.5	0.2	65	0.35	0.037
1192246	Soil		1.0	48.4	6.1	38	0.1	13.7	15.6	908	2.46	1.7	0.4	<0.5	1.5	27	<0.1	0.2	<0.1	81	0.49	0.027
1197133	Soil		0.6	73.0	6.8	56	<0.1	30.2	15.6	456	3.32	6.7	0.9	1.3	3.8	30	<0.1	0.4	<0.1	81	0.46	0.042
1192219	Soil		1.1	14.7	9.0	46	<0.1	20.1	9.5	424	2.52	7.7	0.5	3.0	3.5	21	<0.1	0.5	0.1	60	0.27	0.023
1192217	Soil		0.3	29.5	4.6	53	<0.1	27.3	22.8	665	4.15	3.0	1.3	1.4	4.9	38	<0.1	0.2	<0.1	129	0.66	0.073
1196331	Soil		1.3	17.6	112.1	57	<0.1	17.4	8.6	270	2.67	6.3	0.8	1.8	3.3	15	0.2	0.4	0.7	43	0.22	0.027
1192216	Soil		1.3	17.1	9.9	55	<0.1	23.6	10.0	487	2.61	9.6	0.4	3.0	3.5	21	<0.1	0.5	0.2	57	0.23	0.031
1196332	Soil		2.4	16.3	12.6	48	<0.1	10.0	46.4	299	3.28	7.2	0.7	<0.5	4.0	27	0.2	0.6	6.3	36	0.30	0.036
1196338	Soil		0.5	45.0	4.9	125	<0.1	12.8	16.3	305	4.86	3.3	1.0	1.4	4.1	30	<0.1	0.2	0.1	105	0.58	0.085
1192218	Soil		0.9	55.2	13.6	55	<0.1	23.1	11.4	304	3.31	7.7	1.2	<0.5	6.8	53	<0.1	0.5	0.2	70	0.46	0.024
1196319	Soil		0.6	23.9	7.2	94	<0.1	9.2	12.4	600	5.21	3.2	0.8	1.1	2.4	28	<0.1	0.3	<0.1	63	0.57	0.129
1196321	Soil		0.2	12.1	7.7	51	<0.1	12.6	11.0	345	2.61	0.6	0.2	1.4	0.9	18	<0.1	<0.1	<0.1	70	0.30	0.047
1192212	Soil		0.9	37.2	5.6	55	<0.1	26.4	15.3	372	3.09	5.6	0.3	1.5	1.6	24	<0.1	0.2	<0.1	77	0.49	0.058
1196339	Soil		0.9	38.0	22.0	72	<0.1	13.5	15.1	1842	3.76	4.0	0.4	1.2	1.5	21	0.1	0.2	0.1	108	0.37	0.045
1196784	Soil		0.5	47.3	3.9	64	<0.1	33.7	21.1	717	4.61	4.3	0.8	1.5	4.0	24	<0.1	0.4	<0.1	115	0.49	0.055
1196768	Soil		0.7	29.0	16.1	49	<0.1	23.5	11.6	452	2.60	7.1	0.7	20.6	3.5	23	0.1	0.4	0.2	68	0.42	0.030
1196777	Soil		0.3	56.4	2.7	64	<0.1	26.0	23.3	738	4.89	2.7	1.0	2.0	4.8	20	<0.1	0.2	<0.1	146	0.55	0.076
1196790	Soil		0.9	18.9	27.2	46	<0.1	14.8	7.5	234	2.57	6.7	0.6	3.2	3.0	20	<0.1	0.4	0.3	51	0.26	0.037
1196788	Soil		1.0	22.3	11.2	46	<0.1	20.0	9.6	268	2.84	5.6	0.7	2.4	4.9	21	<0.1	0.3	0.3	61	0.33	0.063
1196770	Soil		1.0	25.4	10.8	49	<0.1	24.4	11.4	326	2.84	8.7	0.6	2.3	4.0	22	<0.1	0.5	0.1	61	0.33	0.037

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
1197038	Soil	12	21	0.84	329	0.073	<1	1.71	0.013	0.30	<0.1	0.01	5.5	0.1	<0.05	6	<0.5	<0.2
1197508	Soil	7	26	0.39	365	0.039	<1	1.32	0.011	0.05	0.1	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
1197040	Soil	12	19	0.69	239	0.044	<1	1.54	0.012	0.13	<0.1	0.03	5.9	<0.1	<0.05	5	<0.5	<0.2
1196325	Soil	9	43	2.11	406	0.207	<1	2.57	0.010	0.12	<0.1	0.02	12.8	<0.1	<0.05	11	<0.5	<0.2
1197047	Soil	5	16	0.28	87	0.038	<1	1.02	0.017	0.02	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
1197050	Soil	2	74	1.42	321	0.249	<1	2.56	0.029	0.51	<0.1	<0.01	5.8	<0.1	<0.05	8	<0.5	<0.2
1197507	Soil	14	82	1.63	253	0.149	<1	2.68	0.017	0.16	<0.1	<0.01	17.5	<0.1	<0.05	11	0.7	<0.2
1196323	Soil	11	27	0.70	310	0.098	<1	1.33	0.025	0.10	0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
1197134	Soil	12	36	0.49	265	0.072	<1	1.50	0.012	0.06	0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
1196329	Soil	8	27	0.63	199	0.075	<1	1.74	0.015	0.09	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
1192220	Soil	16	42	0.78	200	0.097	<1	1.73	0.011	0.28	<0.1	<0.01	6.0	<0.1	<0.05	6	<0.5	<0.2
1192246	Soil	4	27	0.81	246	0.096	<1	1.54	0.022	0.08	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
1197133	Soil	14	56	1.33	385	0.130	<1	2.00	0.015	0.34	<0.1	0.03	6.0	0.1	<0.05	6	0.7	<0.2
1192219	Soil	9	34	0.58	247	0.074	<1	1.50	0.013	0.07	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
1192217	Soil	13	92	2.20	314	0.255	<1	2.61	0.021	0.78	<0.1	<0.01	8.9	0.2	<0.05	8	<0.5	<0.2
1196331	Soil	6	23	0.47	172	0.059	<1	1.51	0.011	0.22	<0.1	<0.01	5.9	0.1	<0.05	7	<0.5	<0.2
1192216	Soil	9	37	0.51	303	0.071	<1	1.63	0.010	0.11	0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
1196332	Soil	9	15	0.47	125	0.016	<1	1.77	0.008	0.04	<0.1	<0.01	7.0	<0.1	<0.05	8	<0.5	<0.2
1196338	Soil	18	21	1.22	458	0.124	<1	2.11	0.027	0.14	<0.1	0.02	16.5	<0.1	<0.05	10	<0.5	<0.2
1192218	Soil	11	39	0.84	241	0.109	<1	2.51	0.011	0.34	<0.1	<0.01	5.2	0.1	<0.05	8	<0.5	<0.2
1196319	Soil	8	16	1.37	840	0.258	<1	2.30	0.012	1.19	<0.1	0.02	7.8	0.3	<0.05	11	<0.5	<0.2
1196321	Soil	3	22	1.02	399	0.154	<1	1.64	0.014	0.85	<0.1	0.01	4.6	0.2	<0.05	6	<0.5	<0.2
1192212	Soil	5	58	1.27	218	0.150	<1	1.94	0.013	0.14	<0.1	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
1196339	Soil	11	17	0.66	725	0.006	5	1.61	0.010	0.07	<0.1	0.03	12.6	<0.1	<0.05	6	<0.5	<0.2
1196784	Soil	11	52	1.76	300	0.083	<1	2.57	0.008	0.57	<0.1	<0.01	9.7	0.1	<0.05	9	<0.5	<0.2
1196768	Soil	11	36	0.74	244	0.092	<1	1.40	0.012	0.10	0.2	0.01	4.2	0.1	<0.05	5	<0.5	<0.2
1196777	Soil	10	46	2.12	463	0.203	<1	2.74	0.010	0.99	<0.1	<0.01	11.5	0.3	<0.05	9	<0.5	<0.2
1196790	Soil	12	25	0.60	342	0.083	<1	1.37	0.010	0.08	0.2	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
1196788	Soil	14	34	0.81	308	0.083	<1	1.47	0.011	0.16	0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
1196770	Soil	12	36	0.59	257	0.072	<1	1.57	0.013	0.06	0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: HEN  
 Report Date: July 19, 2011

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# CERTIFICATE OF ANALYSIS

WHI11000179B.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196789	Soil	1.9	30.2	10.8	76	0.2	18.4	11.7	389	4.09	5.4	0.6	1.5	1.9	19	0.1	0.3	0.2	118	0.21	0.032
1196776	Soil	1.0	173.2	14.5	74	<0.1	23.2	22.7	722	4.61	5.7	0.7	2.3	2.6	22	<0.1	0.3	<0.1	129	0.41	0.051



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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000179B.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1196789	Soil	7	35	0.77	304	0.091	<1	1.99	0.013	0.08	<0.1	0.03	5.4	<0.1	<0.05	9	<0.5	<0.2
1196776	Soil	7	48	1.90	393	0.190	<1	2.66	0.011	1.36	<0.1	0.01	6.6	0.3	<0.05	7	<0.5	<0.2



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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000179B.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1196335	Soil	0.7	24.5	9.0	50	<0.1	18.5	9.1	281	2.37	8.4	0.6	5.6	3.5	31	<0.1	0.4	0.2	55	0.52	0.056
REP 1196335	QC	0.7	25.2	9.1	50	<0.1	18.6	9.2	287	2.43	8.3	0.6	4.1	3.6	31	0.1	0.5	0.1	57	0.52	0.057
1192248	Soil	1.3	28.7	11.8	49	0.2	24.2	11.7	531	2.65	9.6	0.9	1.9	4.3	34	<0.1	0.7	0.2	63	0.52	0.045
REP 1192248	QC	1.2	28.6	11.5	49	0.1	23.8	11.7	526	2.62	9.0	0.9	2.3	4.2	34	<0.1	0.6	0.2	61	0.51	0.045
1192272	Soil	0.6	11.9	19.3	34	<0.1	15.7	11.8	247	3.00	4.9	0.3	3.4	1.6	23	<0.1	0.3	0.2	86	0.57	0.064
REP 1192272	QC	0.5	11.5	19.6	33	<0.1	15.8	11.5	250	2.95	4.5	0.3	1.8	1.5	22	<0.1	0.3	0.2	85	0.56	0.064
1192274	Soil	0.5	44.4	5.2	74	<0.1	18.7	14.5	538	3.82	7.0	0.8	7.6	2.9	28	<0.1	0.4	<0.1	93	0.39	0.049
REP 1192274	QC	0.5	46.0	5.2	74	<0.1	19.3	15.3	554	3.86	7.7	0.8	4.1	2.9	27	<0.1	0.4	<0.1	93	0.40	0.048
1192273	Soil	1.1	24.5	10.2	56	<0.1	24.0	10.7	320	2.69	10.9	0.5	1.9	4.1	22	<0.1	0.7	0.2	61	0.34	0.029
REP 1192273	QC	1.0	23.9	9.9	57	<0.1	23.6	10.7	318	2.63	10.6	0.5	1.6	4.2	21	<0.1	0.6	0.2	60	0.32	0.027
1197041	Soil	1.2	16.0	9.1	63	<0.1	18.9	10.1	357	3.18	7.5	0.9	3.0	3.5	22	0.1	1.3	0.1	76	0.22	0.029
REP 1197041	QC	1.0	14.0	8.6	56	<0.1	17.0	9.1	322	2.92	7.0	0.8	1.3	3.2	20	0.1	1.1	0.1	73	0.20	0.027
1197037	Soil	0.8	16.5	9.1	45	<0.1	16.5	8.9	296	2.44	5.7	0.7	1.7	3.0	26	<0.1	0.4	0.1	56	0.43	0.037
REP 1197037	QC	0.9	15.5	8.8	44	<0.1	15.8	8.4	288	2.35	5.5	0.7	0.5	3.0	25	<0.1	0.4	0.1	56	0.42	0.038
1196323	Soil	0.6	30.3	13.4	50	<0.1	25.5	12.3	473	2.66	8.4	0.5	4.4	3.1	32	0.1	0.5	0.1	61	0.58	0.066
REP 1196323	QC	0.5	30.0	13.1	50	<0.1	25.4	12.6	463	2.66	8.1	0.5	2.3	3.0	32	<0.1	0.5	0.1	61	0.57	0.063
1192212	Soil	0.9	37.2	5.6	55	<0.1	26.4	15.3	372	3.09	5.6	0.3	1.5	1.6	24	<0.1	0.2	<0.1	77	0.49	0.058
REP 1192212	QC	0.8	36.5	5.4	50	<0.1	23.9	13.9	346	2.90	5.4	0.2	3.6	1.5	23	<0.1	0.2	<0.1	72	0.47	0.057
Reference Materials																					
STD DS8	Standard	14.0	116.0	128.7	325	1.8	40.2	8.1	625	2.52	26.4	3.0	112.4	7.5	66	2.2	5.9	6.9	44	0.73	0.080
STD DS8	Standard	14.3	113.1	127.4	321	1.7	40.0	7.6	607	2.42	25.1	3.0	112.3	7.5	66	2.4	5.6	6.8	43	0.69	0.077
STD DS8	Standard	12.9	110.6	122.9	313	1.8	38.0	7.7	581	2.35	25.1	2.7	113.4	6.5	60	2.2	5.6	6.7	41	0.65	0.076
STD DS8	Standard	13.0	114.4	124.1	323	1.8	38.6	7.7	598	2.40	24.9	2.7	110.4	6.6	63	2.2	5.5	6.7	43	0.66	0.078
STD DS8	Standard	13.3	112.0	121.2	321	1.7	39.5	7.5	618	2.44	26.7	2.4	110.9	6.2	60	2.5	5.6	6.5	41	0.67	0.077
STD DS8	Standard	13.4	108.8	116.8	317	1.7	37.8	7.4	589	2.37	25.6	2.4	102.2	6.0	58	2.1	5.3	6.4	41	0.65	0.077
STD DS8	Standard	12.9	112.2	123.9	314	1.7	37.2	7.4	605	2.43	25.8	2.7	104.3	6.8	65	2.5	5.8	7.2	44	0.70	0.079
STD DS8	Standard	13.1	111.1	123.7	311	1.8	37.6	7.3	603	2.42	26.2	2.7	104.0	6.8	69	2.3	5.8	7.0	42	0.68	0.082
STD DS8	Standard	11.7	111.3	122.8	332	1.8	37.2	7.4	604	2.38	26.2	2.5	119.3	6.1	55	2.3	5.2	6.1	42	0.65	0.077



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Project: HEN

Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000179B.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1196335	Soil	12	29	0.56	221	0.072	2	1.40	0.022	0.07	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
REP 1196335	QC	13	30	0.57	224	0.075	2	1.39	0.022	0.07	0.2	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
1192248	Soil	14	32	0.52	398	0.065	1	1.64	0.018	0.05	0.2	0.03	4.5	<0.1	<0.05	5	0.7	<0.2
REP 1192248	QC	14	31	0.51	387	0.065	2	1.60	0.017	0.05	0.1	0.03	4.5	<0.1	<0.05	5	0.5	<0.2
1192272	Soil	6	28	0.93	330	0.099	1	1.79	0.030	0.24	<0.1	<0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
REP 1192272	QC	5	28	0.90	327	0.095	<1	1.76	0.030	0.24	<0.1	<0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
1192274	Soil	12	19	1.30	391	0.184	<1	1.99	0.018	0.84	0.1	0.04	6.4	0.3	<0.05	6	<0.5	<0.2
REP 1192274	QC	12	20	1.28	399	0.188	1	2.02	0.017	0.83	0.1	0.03	6.1	0.3	<0.05	6	<0.5	<0.2
1192273	Soil	11	36	0.52	335	0.068	1	1.46	0.011	0.12	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
REP 1192273	QC	12	34	0.51	329	0.063	<1	1.47	0.010	0.11	0.2	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
1197041	Soil	11	32	0.61	190	0.034	<1	1.78	0.009	0.04	0.1	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
REP 1197041	QC	11	29	0.57	167	0.035	1	1.68	0.009	0.03	<0.1	0.02	4.3	<0.1	<0.05	7	<0.5	<0.2
1197037	Soil	10	25	0.52	256	0.059	1	1.43	0.016	0.05	0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
REP 1197037	QC	9	24	0.51	247	0.057	<1	1.40	0.016	0.05	0.2	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
1196323	Soil	11	27	0.70	310	0.098	<1	1.33	0.025	0.10	0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
REP 1196323	QC	10	26	0.69	310	0.096	<1	1.34	0.025	0.10	0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
1192212	Soil	5	58	1.27	218	0.150	<1	1.94	0.013	0.14	<0.1	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
REP 1192212	QC	5	54	1.26	208	0.145	<1	1.88	0.014	0.13	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	125	0.62	280	0.124	2	0.93	0.089	0.43	3.1	0.22	2.1	5.5	0.16	5	5.6	5.0
STD DS8	Standard	16	120	0.61	272	0.125	3	0.92	0.088	0.42	3.0	0.20	2.2	5.5	0.15	5	5.3	5.3
STD DS8	Standard	13	117	0.58	259	0.111	2	0.86	0.081	0.40	2.8	0.21	2.0	5.3	0.16	4	5.3	4.9
STD DS8	Standard	14	118	0.60	271	0.116	2	0.89	0.086	0.41	2.9	0.20	2.0	5.3	0.14	5	4.9	4.8
STD DS8	Standard	13	113	0.59	278	0.105	2	0.90	0.084	0.41	2.9	0.18	1.7	5.4	0.15	5	5.0	5.2
STD DS8	Standard	13	110	0.59	271	0.104	2	0.89	0.084	0.40	2.8	0.18	1.7	5.2	0.14	5	5.4	5.1
STD DS8	Standard	14	118	0.62	272	0.112	3	0.88	0.087	0.43	3.0	0.20	1.9	5.6	0.16	5	5.2	5.0
STD DS8	Standard	15	116	0.62	288	0.116	3	0.92	0.091	0.42	3.0	0.21	2.1	5.4	0.15	4	4.8	5.0
STD DS8	Standard	11	119	0.58	249	0.101	2	0.82	0.071	0.40	2.9	0.21	1.8	5.4	0.18	4	5.8	4.9

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





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**Project:** HEN

**Report Date:** July 19, 2011

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# QUALITY CONTROL REPORT

WHI11000179B.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8	Standard	12.7	115.7	128.4	339	1.8	40.6	8.2	658	2.61	26.6	2.7	108.6	6.5	56	2.3	5.1	6.3	45	0.66	0.084
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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**Project:** HEN

**Report Date:** July 19, 2011

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QUALITY CONTROL REPORT

WHI11000179B.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	12	123	0.62	253	0.108	2	0.87	0.077	0.41	3.0	0.22	1.9	5.6	0.17	5	5.2	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 06, 2011
Report Date: July 19, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000212.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID: HEN2011-03
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

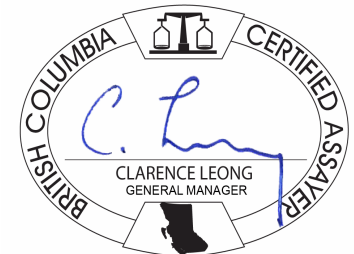
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



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Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000212.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1194772	Soil		0.9	23.5	24.1	55	<0.1	15.6	9.3	300	2.88	7.4	0.6	4.1	2.8	46	<0.1	0.4	0.3	72	0.39	0.045
1194752	Soil		0.9	23.2	6.6	63	<0.1	9.4	11.4	531	3.20	3.3	0.7	3.2	6.4	79	<0.1	0.2	0.1	76	0.31	0.050
1194751	Soil		1.5	156.3	8.9	104	<0.1	30.2	20.4	848	4.69	11.4	1.0	3.6	10.8	47	0.1	0.4	0.2	85	0.79	0.149
1194891	Soil		1.5	21.1	4.8	69	<0.1	8.4	16.0	881	4.65	4.9	0.9	8.4	10.9	41	<0.1	0.5	<0.1	124	0.25	0.038
1194757	Soil		1.1	53.9	6.9	49	<0.1	14.6	11.0	452	3.05	7.2	1.1	6.0	7.8	31	0.1	0.3	0.1	69	0.32	0.034
1194753	Soil		1.1	25.2	6.1	78	<0.1	10.5	13.7	695	3.87	4.1	0.9	<0.5	7.4	123	<0.1	0.2	<0.1	92	0.40	0.056
1194756	Soil		1.4	77.2	28.9	53	<0.1	11.6	10.7	494	3.00	6.2	0.8	2.5	5.4	61	0.1	0.3	0.3	73	0.36	0.038
1194755	Soil		2.4	93.1	13.8	66	<0.1	11.4	13.1	630	3.42	6.0	1.0	<0.5	7.4	37	<0.1	0.3	0.1	79	0.37	0.051
1194754	Soil		1.6	35.5	7.0	50	0.1	9.2	6.9	331	2.80	7.3	0.6	9.1	5.2	24	<0.1	0.3	0.2	75	0.29	0.030
1194760	Soil		0.7	65.0	6.2	51	<0.1	13.3	11.0	470	3.13	6.2	1.0	1.0	6.9	65	<0.1	0.3	<0.1	75	0.42	0.036
1194758	Soil		0.9	57.0	7.2	63	<0.1	13.4	12.8	509	3.55	8.6	0.8	1.1	5.3	47	0.1	0.3	0.1	77	0.40	0.059
1194761	Soil		1.1	51.6	7.8	60	<0.1	16.0	13.3	545	3.52	7.1	0.8	3.1	5.5	45	<0.1	0.3	0.1	74	0.32	0.035
1194759	Soil		0.9	56.1	9.5	57	<0.1	20.3	10.8	496	3.38	8.9	0.9	0.7	5.7	67	<0.1	0.4	0.1	75	0.52	0.057
1194762	Soil		1.8	54.3	13.5	57	<0.1	30.1	11.9	489	3.77	10.1	1.8	1.4	6.9	34	<0.1	0.7	0.3	92	0.28	0.023
1194763	Soil		0.8	21.6	5.6	65	<0.1	13.0	15.5	879	3.97	5.9	0.6	0.6	6.0	45	<0.1	0.3	<0.1	84	0.28	0.043
1194765	Soil		0.3	42.1	4.5	86	<0.1	8.1	18.4	923	6.15	3.5	0.9	0.7	2.8	180	<0.1	0.1	<0.1	121	0.75	0.079
1035406	Soil		2.2	59.8	6.2	115	<0.1	11.8	12.1	1215	4.65	5.0	0.9	1.8	3.8	22	<0.1	0.4	0.1	69	0.50	0.114
1035405	Soil		4.1	45.4	24.5	83	0.1	25.0	8.5	905	4.19	6.6	2.0	3.7	12.0	27	<0.1	1.0	0.3	33	0.39	0.021
1035419	Soil		3.1	35.3	8.0	155	<0.1	18.2	8.3	697	3.57	7.3	1.3	0.8	4.8	26	0.4	0.5	<0.1	41	0.35	0.044
1035418	Soil		1.6	53.0	9.5	120	<0.1	16.2	19.3	872	5.69	6.0	0.5	<0.5	1.4	141	0.2	0.3	<0.1	122	0.72	0.092
1035402	Soil		1.3	21.4	10.4	63	0.1	78.4	34.2	1535	6.69	7.4	0.5	2.3	1.1	38	<0.1	0.8	<0.1	187	1.77	0.105
1035414	Soil		1.2	31.3	14.2	68	<0.1	10.5	3.1	330	3.87	4.4	0.9	<0.5	3.5	54	0.1	0.4	0.2	10	0.60	0.020
1035415	Soil		1.5	34.6	175.1	68	0.3	25.8	9.0	418	3.35	10.8	1.1	6.2	5.9	30	0.2	0.8	2.7	47	0.43	0.025
1035416	Soil		1.5	14.7	13.4	48	0.2	20.4	7.4	230	3.04	10.6	0.4	2.1	2.4	30	0.1	0.6	0.2	62	0.43	0.020
1192026	Soil		1.4	18.8	11.1	86	<0.1	15.8	7.3	831	3.50	7.9	0.6	0.9	3.0	34	0.2	0.7	0.1	43	0.60	0.034
1035424	Soil		0.4	24.2	5.8	80	<0.1	12.0	20.9	1056	4.49	4.4	0.6	0.7	5.3	43	<0.1	0.7	<0.1	81	0.64	0.098
1192306	Soil		0.3	21.5	5.1	81	<0.1	10.2	20.0	1001	4.67	4.4	0.6	1.1	6.0	48	<0.1	0.6	<0.1	77	0.67	0.096
1035413	Soil		2.0	32.0	24.4	76	0.1	27.2	11.2	701	3.43	11.2	0.5	2.3	6.9	28	0.1	0.6	0.2	57	0.40	0.032
1035425	Soil		0.3	24.9	4.7	69	<0.1	10.4	17.1	664	3.98	5.0	0.8	1.6	3.5	47	<0.1	0.3	<0.1	90	0.47	0.045
1035422	Soil		2.0	42.1	36.5	119	0.2	48.0	23.2	616	4.46	15.2	1.3	<0.5	10.6	29	0.3	1.1	0.2	52	0.61	0.048

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000212.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1194772	Soil	9	33	0.66	187	0.086	1	1.78	0.022	0.05	0.1	<0.01	3.5	<0.1	0.13	6	0.7	<0.2
1194752	Soil	12	20	1.23	119	0.145	2	2.11	0.012	0.73	0.1	<0.01	2.7	0.3	0.10	7	0.6	<0.2
1194751	Soil	34	51	1.22	194	0.118	1	2.27	0.012	0.33	0.2	0.02	5.9	0.4	0.08	9	0.5	<0.2
1194891	Soil	15	21	1.91	143	0.196	2	3.12	0.014	1.23	0.1	0.01	8.8	0.4	<0.05	12	1.0	<0.2
1194757	Soil	22	30	0.79	253	0.143	2	2.12	0.014	0.26	0.1	<0.01	3.2	0.2	0.05	6	0.6	<0.2
1194753	Soil	16	21	1.42	152	0.188	1	2.49	0.015	1.02	0.1	0.02	3.4	0.4	0.06	8	0.7	<0.2
1194756	Soil	14	24	0.84	150	0.158	1	2.17	0.015	0.32	0.1	0.02	2.8	0.2	<0.05	8	0.6	<0.2
1194755	Soil	16	24	1.04	147	0.146	<1	2.10	0.014	0.49	0.1	0.02	3.1	0.2	<0.05	8	<0.5	<0.2
1194754	Soil	11	22	0.72	103	0.128	<1	1.61	0.014	0.18	0.2	0.02	3.1	0.1	0.07	8	<0.5	<0.2
1194760	Soil	17	25	0.93	212	0.160	<1	1.97	0.018	0.60	<0.1	0.02	3.9	0.3	<0.05	6	0.7	<0.2
1194758	Soil	13	27	0.91	182	0.148	1	2.32	0.015	0.37	0.1	0.01	2.9	0.2	<0.05	7	0.6	<0.2
1194761	Soil	15	31	0.93	187	0.158	<1	2.28	0.019	0.39	0.1	0.02	2.9	0.2	<0.05	7	0.8	<0.2
1194759	Soil	14	33	0.88	268	0.153	<1	1.99	0.018	0.39	0.2	0.02	4.1	0.2	<0.05	6	0.6	<0.2
1194762	Soil	21	43	0.67	386	0.172	1	3.07	0.020	0.10	0.2	0.06	5.8	0.1	<0.05	9	1.0	<0.2
1194763	Soil	8	26	1.15	172	0.197	<1	2.75	0.013	0.77	0.1	<0.01	2.5	0.3	<0.05	8	<0.5	<0.2
1194765	Soil	13	13	2.04	501	0.202	<1	3.41	0.025	1.54	0.1	<0.01	8.6	0.4	<0.05	10	<0.5	<0.2
1035406	Soil	16	16	1.21	539	0.116	<1	2.34	0.011	0.62	<0.1	0.08	5.2	0.2	0.06	8	1.1	<0.2
1035405	Soil	21	35	0.37	868	0.010	3	1.47	0.010	0.22	<0.1	0.04	8.3	<0.1	0.07	5	<0.5	<0.2
1035419	Soil	22	28	0.65	580	0.069	1	1.67	0.013	0.32	<0.1	0.02	6.3	0.1	<0.05	6	0.5	<0.2
1035418	Soil	4	33	1.31	1124	0.282	3	2.77	0.019	1.29	<0.1	0.02	3.8	0.4	0.09	8	0.8	0.2
1035402	Soil	8	277	2.67	160	0.041	4	3.32	0.020	0.06	<0.1	0.07	20.3	<0.1	0.07	13	0.7	<0.2
1035414	Soil	16	21	0.33	871	0.003	3	1.75	0.010	0.15	<0.1	0.04	13.5	<0.1	0.06	7	<0.5	<0.2
1035415	Soil	23	34	0.52	758	0.054	2	1.39	0.020	0.12	0.2	0.04	6.5	<0.1	0.05	5	0.8	<0.2
1035416	Soil	9	34	0.38	449	0.047	1	1.61	0.015	0.07	0.2	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
1192026	Soil	16	30	0.40	994	0.019	2	1.76	0.013	0.23	0.1	0.03	7.2	<0.1	<0.05	6	0.7	<0.2
1035424	Soil	14	18	1.39	333	0.108	1	2.27	0.017	0.71	<0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
1192306	Soil	15	17	1.42	279	0.083	<1	2.28	0.015	0.61	<0.1	<0.01	2.8	0.2	0.05	7	<0.5	<0.2
1035413	Soil	14	47	0.55	558	0.065	1	1.80	0.016	0.20	0.1	<0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
1035425	Soil	15	21	1.38	235	0.203	<1	2.46	0.012	0.74	<0.1	0.01	3.1	0.2	<0.05	7	<0.5	<0.2
1035422	Soil	27	55	0.66	238	0.060	<1	1.69	0.011	0.11	0.1	<0.01	6.6	<0.1	0.09	6	0.8	<0.2

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 Vancouver BC V6C 1H2 Canada

Project: HEN  
 Report Date: July 19, 2011

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000212.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1035423	Soil	0.5	78.0	5.8	107	<0.1	23.5	34.0	1281	6.35	5.1	0.6	1.4	2.5	77	<0.1	0.5	<0.1	137	0.90	0.092
1035403	Soil	32.6	131.5	58.1	348	0.9	130.2	12.3	823	3.47	1052	1.7	2.4	4.7	62	7.4	8.6	0.4	64	1.44	0.162
1194870	Soil	1.1	44.5	6.4	157	<0.1	12.7	24.7	706	6.52	8.9	1.3	1.0	2.9	33	0.3	0.2	<0.1	152	0.74	0.090
1194519	Soil	0.6	75.1	4.1	82	0.1	15.7	24.0	602	5.53	5.8	0.5	2.4	1.1	26	0.1	0.2	<0.1	174	0.96	0.096
1194887	Soil	1.4	33.5	7.6	106	<0.1	12.2	18.3	1021	5.59	12.9	1.1	0.8	4.8	66	<0.1	0.4	0.1	121	0.47	0.066
1194875	Soil	1.2	78.4	11.4	331	0.2	153.6	21.7	356	4.58	95.4	2.4	4.6	24.5	33	2.4	1.1	0.3	37	0.25	0.078
1194866	Soil	0.7	37.3	8.2	59	0.1	24.6	12.9	658	2.77	7.0	0.5	2.5	2.5	50	0.2	0.4	0.2	67	1.12	0.058
1194874	Soil	1.1	35.9	6.7	54	0.1	22.2	23.0	449	4.80	4.5	0.5	1.0	2.1	22	<0.1	0.3	<0.1	159	0.46	0.030
1035408	Soil	2.7	27.3	12.5	105	<0.1	28.4	9.5	808	3.42	6.3	0.9	3.6	3.8	37	0.2	0.5	0.2	49	0.59	0.034
1035401	Soil	1.3	60.6	56.1	233	0.3	31.4	37.2	2212	7.23	4.4	0.8	4.2	1.2	28	0.3	0.3	0.6	205	0.82	0.115
1035421	Soil	1.2	19.6	7.1	141	<0.1	15.5	9.6	1262	4.30	4.2	0.9	0.7	5.4	23	0.2	0.3	0.1	49	0.37	0.049
1035404	Soil	1.2	39.8	15.8	310	<0.1	14.2	19.1	2626	5.98	3.1	1.0	1.4	4.8	23	0.4	0.3	0.2	91	0.61	0.103
1035411	Soil	1.8	16.0	14.1	40	<0.1	21.9	7.4	525	2.44	5.2	0.4	<0.5	3.0	50	<0.1	0.7	0.2	42	0.48	0.020
1035410	Soil	2.3	68.1	33.7	88	0.4	57.5	13.0	370	3.00	20.7	1.5	3.3	5.0	70	0.2	0.5	0.3	126	0.49	0.076
1035420	Soil	0.6	96.2	13.8	112	<0.1	29.5	23.5	676	4.47	4.3	0.7	4.0	1.7	25	<0.1	0.3	<0.1	126	0.51	0.023
1035407	Soil	1.4	34.0	11.6	59	0.1	19.2	12.0	755	3.33	6.2	0.5	0.8	2.9	28	<0.1	0.5	0.1	62	0.53	0.021
1035417	Soil	2.2	18.9	14.0	52	0.1	26.4	8.5	237	2.87	7.1	0.5	3.7	4.3	47	<0.1	0.4	0.1	50	0.29	0.016
1035409	Soil	1.5	53.0	16.5	63	<0.1	27.2	9.7	424	3.18	8.3	1.0	5.9	3.9	57	0.1	0.6	0.2	47	0.37	0.027
1194871	Soil	1.5	66.5	23.6	120	0.1	35.6	19.8	719	5.50	5.2	1.0	2.0	4.9	52	0.5	0.2	0.2	136	0.92	0.104
1194867	Soil	1.6	122.1	32.1	49	0.1	20.9	33.7	394	6.43	53.1	1.6	2.2	3.6	45	<0.1	0.3	0.5	159	0.63	0.049
1194884	Soil	2.1	33.9	11.9	90	0.2	19.2	14.6	521	4.51	7.6	0.6	1.1	2.2	52	<0.1	0.2	0.1	136	0.38	0.038
1194877	Soil	9.5	102.1	17.0	216	0.4	65.1	11.5	279	3.94	63.5	4.2	3.1	6.5	51	1.1	0.6	0.2	58	0.35	0.141
1194886	Soil	0.9	31.0	9.3	62	0.4	24.4	13.3	500	3.31	9.2	0.7	0.9	5.1	28	<0.1	0.6	0.2	80	0.37	0.027
1194869	Soil	1.3	201.7	10.6	130	<0.1	21.0	30.8	1146	7.15	5.0	1.1	<0.5	3.6	41	0.2	0.2	0.2	142	0.63	0.084
1194883	Soil	0.9	37.3	9.2	64	0.2	24.0	10.8	617	2.92	13.5	0.9	2.5	3.5	52	0.2	0.5	0.1	60	2.59	0.050
1194882	Soil	1.6	36.6	42.8	177	0.1	21.2	8.2	791	3.81	12.7	1.1	0.9	6.1	28	0.5	0.5	0.2	49	0.34	0.032
1194881	Soil	1.8	18.5	13.0	71	<0.1	19.1	7.8	450	3.31	7.7	5.1	1.0	5.1	38	<0.1	0.4	0.2	50	0.55	0.021
1194876	Soil	4.2	146.7	11.3	139	0.3	37.8	11.5	248	3.96	15.0	2.2	<0.5	7.7	32	1.4	0.3	0.3	63	0.21	0.070
1194879	Soil	22.3	88.1	15.2	175	0.5	54.5	4.9	113	3.30	59.1	7.2	<0.5	5.1	117	1.0	0.8	0.2	175	0.45	0.290
1194880	Soil	13.3	103.2	13.7	447	0.9	85.0	9.3	595	3.99	8.6	4.9	<0.5	6.1	77	2.2	0.4	0.2	157	0.77	0.340

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1035423	Soil	7	49	2.19	517	0.194	<1	2.95	0.016	0.39	<0.1	<0.01	8.3	<0.1	<0.05	9	<0.5	<0.2
1035403	Soil	5	41	0.13	1458	0.005	3	0.59	0.003	0.17	0.1	0.19	5.4	0.3	<0.05	2	6.7	0.2
1194870	Soil	12	44	2.14	853	0.271	1	3.19	0.029	0.80	0.1	0.02	10.8	0.3	<0.05	13	0.9	<0.2
1194519	Soil	8	18	1.50	303	0.107	<1	2.63	0.037	0.42	<0.1	0.01	11.1	0.1	<0.05	9	0.8	<0.2
1194887	Soil	30	38	1.40	422	0.158	<1	2.78	0.014	1.05	<0.1	0.02	13.1	0.4	<0.05	10	0.6	<0.2
1194875	Soil	61	27	0.41	564	0.019	2	0.84	0.005	0.34	<0.1	0.07	4.3	0.1	0.05	3	3.6	<0.2
1194866	Soil	11	35	0.93	369	0.105	6	1.52	0.017	0.30	0.2	0.03	4.3	<0.1	<0.05	5	0.6	<0.2
1194874	Soil	7	24	1.35	337	0.229	2	2.26	0.018	0.64	<0.1	0.02	5.7	0.2	<0.05	8	<0.5	<0.2
1035408	Soil	24	38	0.61	580	0.069	6	1.56	0.011	0.27	0.2	0.04	7.3	<0.1	<0.05	6	0.8	<0.2
1035401	Soil	9	52	2.21	407	0.077	3	3.07	0.014	0.20	<0.1	0.13	16.5	<0.1	<0.05	12	0.5	<0.2
1035421	Soil	14	18	0.94	487	0.071	1	2.09	0.008	0.48	<0.1	0.08	9.1	0.1	<0.05	10	<0.5	<0.2
1035404	Soil	39	21	1.45	528	0.091	1	2.58	0.009	0.37	<0.1	0.15	13.4	0.1	<0.05	12	<0.5	<0.2
1035411	Soil	8	35	0.38	753	0.038	3	1.37	0.011	0.20	<0.1	0.02	4.9	<0.1	<0.05	4	0.5	<0.2
1035410	Soil	22	64	0.83	327	0.092	2	1.49	0.016	0.13	<0.1	0.04	6.6	<0.1	<0.05	5	<0.5	<0.2
1035420	Soil	11	40	1.66	711	0.142	2	2.32	0.026	0.21	<0.1	0.03	11.7	0.1	<0.05	7	<0.5	<0.2
1035407	Soil	11	24	0.46	1087	0.052	4	1.53	0.011	0.28	0.1	0.03	7.0	<0.1	<0.05	4	<0.5	<0.2
1035417	Soil	10	43	0.42	598	0.061	2	1.49	0.009	0.15	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
1035409	Soil	18	38	0.56	506	0.058	2	1.55	0.011	0.13	0.1	0.04	6.4	<0.1	<0.05	5	<0.5	<0.2
1194871	Soil	14	90	2.51	495	0.336	1	3.10	0.019	1.04	<0.1	0.04	8.3	0.4	<0.05	11	0.6	<0.2
1194867	Soil	17	25	1.20	357	0.235	<1	2.46	0.024	0.45	<0.1	0.03	10.7	0.2	<0.05	10	1.2	<0.2
1194884	Soil	7	30	0.75	537	0.243	1	2.32	0.015	0.62	<0.1	0.03	5.4	0.3	<0.05	8	<0.5	<0.2
1194877	Soil	20	52	0.62	585	0.059	2	1.50	0.015	0.42	<0.1	0.04	4.5	0.4	0.16	5	3.4	<0.2
1194886	Soil	13	34	0.69	471	0.147	2	1.77	0.017	0.28	0.1	0.04	6.0	0.1	<0.05	6	<0.5	<0.2
1194869	Soil	18	93	2.44	450	0.109	1	3.10	0.011	0.30	<0.1	0.03	14.9	<0.1	<0.05	13	2.3	<0.2
1194883	Soil	21	26	0.69	241	0.081	3	1.38	0.019	0.22	0.2	0.05	5.7	<0.1	<0.05	5	0.6	<0.2
1194882	Soil	15	35	0.67	189	0.088	1	1.85	0.010	0.27	<0.1	0.04	12.5	0.1	<0.05	7	<0.5	<0.2
1194881	Soil	16	33	0.46	121	0.074	<1	1.94	0.009	0.14	0.1	0.02	8.4	<0.1	<0.05	7	<0.5	<0.2
1194876	Soil	28	41	0.66	438	0.104	<1	1.92	0.017	0.44	<0.1	0.02	4.8	0.3	0.19	7	5.0	<0.2
1194879	Soil	16	45	0.28	341	0.017	1	1.01	0.017	0.21	0.3	0.02	3.1	0.3	0.22	3	10.0	0.2
1194880	Soil	22	61	0.85	479	0.068	2	1.73	0.020	0.46	0.1	0.03	5.2	0.3	0.24	6	7.1	0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000212.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1194520	Soil	14.3	97.0	13.6	498	0.9	96.1	8.7	555	3.72	9.8	4.5	1.0	6.4	59	2.4	0.5	0.2	140	0.74	0.341
1194878	Soil	10.8	60.8	11.8	104	0.5	32.3	5.8	157	3.01	46.0	2.2	1.2	6.4	51	0.2	0.7	0.2	54	0.23	0.090
1194885	Soil	1.5	19.6	11.5	76	0.1	24.4	8.4	591	2.87	7.5	0.7	1.5	4.1	29	0.1	0.4	0.1	54	0.41	0.038
1194872	Soil	1.0	36.5	7.3	69	0.1	12.7	20.5	673	6.17	4.7	1.3	1.2	6.7	21	<0.1	0.2	0.1	146	0.56	0.099
1192487	Soil	0.5	67.7	9.4	85	<0.1	17.5	18.0	473	4.12	4.7	0.6	0.6	2.2	35	<0.1	0.2	0.1	110	0.46	0.033
1192485	Soil	0.5	26.3	18.7	77	<0.1	18.2	8.7	467	3.12	3.8	0.9	1.5	5.8	22	<0.1	0.4	0.1	37	0.25	0.036
1192434	Soil	0.7	23.6	12.8	46	<0.1	23.3	8.6	244	2.52	8.9	0.9	2.5	4.1	26	<0.1	0.4	0.2	57	0.28	0.030
1192464	Soil	0.4	28.0	15.0	99	<0.1	35.4	16.9	581	4.24	3.4	2.2	0.5	23.5	23	<0.1	<0.1	<0.1	53	0.34	0.062
1192195	Soil	0.7	10.5	9.1	29	<0.1	11.5	2.4	167	1.53	2.9	0.3	1.2	1.9	22	<0.1	0.3	<0.1	13	0.23	0.012
1192166	Soil	0.6	26.6	26.0	104	<0.1	14.2	6.8	386	3.67	5.7	1.0	2.4	4.9	19	<0.1	0.4	0.4	39	0.20	0.024
1192436	Soil	0.7	44.5	7.1	66	<0.1	23.6	14.2	417	3.22	6.4	0.6	2.7	4.0	42	<0.1	0.4	<0.1	78	0.47	0.036
1192439	Soil	0.3	29.8	14.7	103	<0.1	35.5	17.0	718	4.59	2.8	2.4	1.0	24.7	26	<0.1	<0.1	<0.1	54	0.42	0.073
1192478	Soil	1.0	22.8	10.5	57	<0.1	22.7	10.9	320	3.13	9.7	0.8	3.6	5.2	17	<0.1	0.5	0.2	69	0.15	0.015
1192484	Soil	0.6	21.4	23.8	120	<0.1	15.6	9.4	383	3.31	6.8	0.8	2.6	8.3	13	<0.1	0.4	0.2	46	0.14	0.028
1192198	Soil	0.7	32.1	12.3	47	<0.1	15.5	10.9	347	3.03	6.7	0.9	2.3	3.3	21	<0.1	0.5	0.1	73	0.41	0.069
1192197	Soil	0.9	19.6	12.0	68	<0.1	20.2	9.7	318	2.92	9.6	0.5	1.8	5.0	15	<0.1	0.5	0.2	54	0.14	0.015
1192433	Soil	0.4	19.5	2.8	65	<0.1	15.5	19.9	748	4.22	2.4	1.1	0.6	7.8	34	<0.1	0.2	<0.1	121	0.35	0.028
1194873	Soil	0.7	48.2	5.6	57	0.2	14.1	20.6	694	5.66	5.6	0.5	2.1	1.6	27	0.2	0.6	0.2	186	1.07	0.050
1194518	Soil	3.2	85.7	13.8	121	0.4	14.3	17.8	654	6.65	33.1	0.7	2.1	3.4	18	0.2	0.3	0.3	143	0.20	0.051
1194868	Soil	1.2	30.1	6.7	89	<0.1	18.2	16.5	991	4.81	3.2	0.9	0.6	4.6	25	<0.1	0.2	0.1	96	1.16	0.080
1192442	Soil	1.0	23.4	9.6	49	<0.1	19.7	9.2	301	2.85	8.3	0.8	2.7	5.2	17	<0.1	0.6	0.2	62	0.15	0.017
1192200	Soil	0.2	14.2	7.3	47	<0.1	5.5	5.8	308	1.81	1.8	1.0	<0.5	13.1	19	<0.1	0.2	<0.1	37	0.23	0.012
1192187	Soil	0.9	24.8	13.9	54	<0.1	22.1	9.6	279	2.80	9.1	1.0	4.3	6.6	16	<0.1	0.6	0.2	59	0.15	0.014
1192488	Soil	0.4	49.5	4.8	59	<0.1	18.2	18.2	621	3.88	5.3	0.8	1.6	3.9	35	<0.1	0.3	<0.1	103	0.39	0.030
1192483	Soil	0.3	87.4	2.7	57	<0.1	14.6	20.0	529	3.54	2.2	0.3	<0.5	1.8	34	<0.1	0.2	<0.1	92	0.41	0.043
1192486	Soil	0.8	15.8	7.0	72	<0.1	32.3	19.9	558	3.96	2.7	0.8	1.0	6.2	43	<0.1	0.3	<0.1	91	0.61	0.043
1192491	Soil	1.1	15.7	10.9	64	<0.1	16.8	8.6	352	2.98	7.8	0.6	3.5	4.0	14	<0.1	0.5	0.2	58	0.13	0.023
1192199	Soil	0.3	25.2	5.3	60	<0.1	9.7	14.9	739	3.94	2.1	1.5	0.9	10.3	23	<0.1	0.2	<0.1	112	0.28	0.021
1192438	Soil	0.2	78.2	2.8	74	<0.1	16.9	23.3	790	4.73	1.7	0.7	0.7	2.5	35	<0.1	0.1	<0.1	129	0.67	0.064
1192489	Soil	1.0	30.3	52.9	106	<0.1	17.6	8.9	404	3.24	8.0	1.4	4.4	7.2	26	0.1	0.5	0.8	51	0.24	0.022

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Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1194520	Soil	23	66	0.96	453	0.077	1	1.89	0.012	0.47	0.1	0.03	4.9	0.4	0.09	6	8.3	<0.2
1194878	Soil	21	31	0.37	359	0.039	<1	1.06	0.015	0.17	0.1	0.03	2.6	0.2	0.14	3	3.8	<0.2
1194885	Soil	14	36	0.56	241	0.101	1	1.63	0.011	0.22	0.1	0.02	6.3	<0.1	<0.05	6	<0.5	<0.2
1194872	Soil	31	16	1.98	438	0.285	<1	2.95	0.015	0.81	0.1	0.02	14.3	0.3	<0.05	12	0.6	<0.2
1192487	Soil	11	19	0.97	397	0.180	<1	2.39	0.026	0.21	<0.1	0.02	4.5	0.1	<0.05	6	0.6	<0.2
1192485	Soil	28	19	0.43	474	0.035	1	1.40	0.009	0.32	<0.1	0.03	6.1	0.1	<0.05	5	<0.5	<0.2
1192434	Soil	17	34	0.49	373	0.063	<1	1.54	0.010	0.04	<0.1	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
1192464	Soil	44	42	1.29	437	0.223	<1	2.49	0.010	1.05	<0.1	0.02	4.1	0.4	<0.05	9	0.7	<0.2
1192195	Soil	7	17	0.14	316	0.002	1	0.77	0.007	0.06	<0.1	0.02	4.9	<0.1	<0.05	2	<0.5	<0.2
1192166	Soil	21	24	0.45	471	0.054	<1	1.68	0.009	0.12	<0.1	0.03	7.1	<0.1	<0.05	8	<0.5	<0.2
1192436	Soil	12	42	1.15	367	0.137	1	2.09	0.018	0.32	<0.1	0.03	4.7	0.1	<0.05	6	<0.5	<0.2
1192439	Soil	40	41	1.37	498	0.200	<1	2.55	0.010	1.29	<0.1	<0.01	4.9	0.4	<0.05	10	<0.5	<0.2
1192478	Soil	14	38	0.56	264	0.077	2	2.15	0.010	0.05	0.1	0.03	3.7	0.1	<0.05	6	<0.5	<0.2
1192484	Soil	17	25	0.59	203	0.097	1	1.99	0.009	0.28	<0.1	0.02	4.2	0.2	<0.05	7	0.5	<0.2
1192198	Soil	11	27	0.62	258	0.063	<1	1.86	0.022	0.06	0.1	0.02	5.8	<0.1	<0.05	6	<0.5	<0.2
1192197	Soil	10	33	0.54	252	0.077	1	2.00	0.007	0.13	0.1	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
1192433	Soil	15	24	1.75	235	0.246	1	2.67	0.013	0.80	<0.1	0.01	3.6	0.3	<0.05	8	<0.5	<0.2
1194873	Soil	7	13	1.49	351	0.087	3	2.49	0.021	0.34	<0.1	0.05	13.9	0.2	<0.05	8	<0.5	<0.2
1194518	Soil	9	26	1.41	358	0.111	<1	2.97	0.013	0.63	<0.1	0.02	8.0	0.3	0.07	10	1.7	0.4
1194868	Soil	20	81	1.27	619	0.057	3	2.37	0.010	0.37	<0.1	0.02	13.6	0.1	<0.05	8	0.6	<0.2
1192442	Soil	14	37	0.52	299	0.071	2	2.14	0.009	0.08	0.1	0.02	3.5	0.1	<0.05	6	<0.5	<0.2
1192200	Soil	24	10	0.56	119	0.054	<1	1.21	0.004	0.15	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
1192187	Soil	16	38	0.50	258	0.072	1	2.05	0.010	0.08	0.1	0.02	3.9	0.1	<0.05	6	0.7	<0.2
1192488	Soil	11	39	1.60	366	0.202	1	2.56	0.016	0.79	<0.1	0.02	5.8	0.2	<0.05	6	<0.5	<0.2
1192483	Soil	6	35	1.76	384	0.207	<1	2.43	0.018	0.79	<0.1	<0.01	2.7	0.2	<0.05	5	<0.5	<0.2
1192486	Soil	21	53	1.50	412	0.097	1	2.78	0.013	0.49	<0.1	0.01	7.0	0.2	<0.05	8	<0.5	<0.2
1192491	Soil	10	29	0.51	253	0.055	2	1.89	0.009	0.07	0.1	0.02	3.4	0.1	<0.05	6	0.5	<0.2
1192199	Soil	26	16	1.47	335	0.204	<1	2.41	0.014	0.81	<0.1	<0.01	5.8	0.2	<0.05	8	<0.5	<0.2
1192438	Soil	6	42	1.94	337	0.273	<1	2.89	0.022	1.10	<0.1	<0.01	4.6	0.3	<0.05	8	<0.5	<0.2
1192489	Soil	25	30	0.53	381	0.091	<1	1.85	0.010	0.16	0.1	0.03	4.9	0.2	<0.05	6	0.5	<0.2

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Project: HEN  
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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1193770	Soil		0.9	19.5	9.4	52	<0.1	19.5	8.9	271	2.84	8.4	0.8	4.4	4.7	18	<0.1	0.6	0.2	60	0.17	0.010
1192490	Soil		0.6	13.2	9.9	46	<0.1	14.5	5.2	169	2.06	4.0	0.6	5.6	3.0	23	<0.1	0.3	0.1	40	0.28	0.026
1192440	Soil		0.6	27.5	7.0	56	<0.1	8.5	12.3	442	3.47	4.1	0.7	1.1	5.6	17	<0.1	0.4	<0.1	30	0.17	0.022
1192196	Soil		1.0	21.7	10.5	45	<0.1	20.2	8.4	259	2.57	8.1	0.9	4.8	4.6	24	<0.1	0.5	0.2	54	0.26	0.013
1192179	Soil		0.7	33.3	10.6	91	<0.1	23.6	15.1	495	4.91	4.6	0.8	2.0	2.5	41	0.2	0.5	0.1	127	0.54	0.046
1192480	Soil		0.4	32.4	13.2	126	<0.1	15.7	14.9	783	4.84	4.1	1.3	2.1	12.1	43	0.1	0.2	<0.1	85	0.48	0.052
1194764	Soil		0.7	37.5	3.9	49	<0.1	9.8	8.9	624	3.39	3.2	1.3	1.0	14.6	28	<0.1	0.3	<0.1	72	0.31	0.031
1194895	Soil		2.6	85.7	10.6	72	<0.1	32.1	11.3	573	3.47	6.3	1.1	4.6	9.0	90	<0.1	0.5	0.1	60	0.79	0.067
1194894	Soil		1.2	88.2	7.9	57	<0.1	22.0	16.3	537	3.34	6.6	0.9	1.9	8.8	34	<0.1	0.4	0.1	68	0.37	0.044
1194889	Soil		1.1	25.6	5.5	62	<0.1	8.1	13.6	839	3.75	4.1	0.9	1.0	6.3	99	<0.1	0.4	<0.1	98	0.33	0.075
1194888	Soil		1.4	45.9	6.4	56	<0.1	9.5	12.6	706	3.61	3.9	0.6	0.6	8.5	36	<0.1	0.2	<0.1	95	0.42	0.094
1194890	Soil		0.8	16.9	7.3	43	<0.1	10.8	6.1	234	2.41	6.4	0.8	1.4	3.5	26	<0.1	0.2	0.1	63	0.24	0.032
1194814	Soil		1.1	20.6	7.7	49	<0.1	12.2	8.0	280	2.78	5.5	0.7	2.7	5.3	31	<0.1	0.4	0.1	63	0.30	0.029
1194776	Soil		1.3	15.6	9.0	50	<0.1	12.6	8.9	317	2.89	7.2	0.8	2.6	5.4	31	<0.1	0.4	0.1	70	0.33	0.044
1194775	Soil		1.5	32.3	6.9	60	<0.1	16.7	10.9	381	3.26	5.6	1.0	4.2	4.6	95	<0.1	0.3	0.1	75	0.66	0.086
1194771	Soil		1.2	23.9	16.5	60	0.1	20.7	9.4	247	2.78	7.7	0.7	2.8	3.2	32	<0.1	0.4	0.2	63	0.42	0.065
1194893	Soil		1.4	21.6	9.5	50	<0.1	13.4	9.6	337	3.14	6.8	0.6	2.0	5.5	22	<0.1	0.3	0.1	72	0.18	0.019
1194892	Soil		1.0	18.7	8.3	54	<0.1	10.8	11.1	638	3.60	8.5	0.8	1.5	9.1	37	<0.1	0.3	<0.1	82	0.29	0.043
1194774	Soil		1.2	19.7	9.5	50	<0.1	15.2	8.4	234	2.49	6.8	0.8	2.3	3.4	29	<0.1	0.4	0.1	59	0.35	0.035
1194773	Soil		0.9	33.7	10.8	60	<0.1	19.8	12.8	380	3.17	4.5	0.6	1.3	2.7	56	<0.1	0.2	0.1	83	0.62	0.088
1194770	Soil		1.6	33.7	13.9	60	<0.1	22.6	10.8	297	2.79	5.8	0.8	4.3	3.2	46	<0.1	0.5	0.2	64	0.53	0.066
1192437	Soil		1.2	73.0	7.8	35	<0.1	15.9	12.5	269	4.03	27.7	0.9	4.6	3.5	15	<0.1	1.3	0.1	50	0.36	0.079
1035495	Soil		1.3	9.3	20.2	42	0.1	9.8	5.0	218	2.26	5.9	0.5	4.2	1.6	13	<0.1	0.3	0.3	44	0.16	0.034
1035496	Soil		2.0	12.2	16.9	51	<0.1	19.1	6.5	236	2.61	5.4	0.4	2.1	4.2	19	<0.1	0.3	0.2	48	0.27	0.046
1035460	Soil		4.0	14.8	11.5	38	0.2	22.9	3.0	208	1.39	1.3	0.6	2.2	0.6	18	<0.1	0.2	0.2	24	0.27	0.031
1035482	Soil		1.3	13.5	12.1	48	<0.1	14.9	7.6	291	2.30	5.7	0.7	5.3	2.9	19	0.1	0.4	0.2	50	0.27	0.040
1035452	Soil		1.3	18.0	9.9	67	<0.1	12.7	11.1	494	3.38	5.3	0.7	1.9	5.2	12	<0.1	0.4	0.1	43	0.18	0.037
1035476	Soil		1.5	20.0	20.3	58	0.1	14.9	6.6	205	2.75	7.5	0.7	2.2	2.8	19	<0.1	0.4	0.2	53	0.21	0.032
1035487	Soil		1.1	14.5	41.7	47	0.2	12.6	5.6	228	2.16	4.0	0.6	2.3	2.1	19	0.1	0.2	0.4	43	0.25	0.040
1035458	Soil		1.5	11.4	16.9	36	0.2	10.5	3.8	132	1.67	5.2	0.4	2.1	1.0	16	<0.1	0.4	0.2	47	0.17	0.026

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1193770	Soil	16	36	0.57	211	0.090	1	1.94	0.009	0.09	0.1	0.02	3.7	0.1	<0.05	5	<0.5	<0.2
1192490	Soil	12	27	0.51	264	0.056	1	1.33	0.010	0.04	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
1192440	Soil	27	12	0.42	283	0.057	<1	1.61	0.009	0.27	<0.1	0.02	8.4	<0.1	<0.05	8	<0.5	<0.2
1192196	Soil	18	34	0.43	291	0.068	1	1.62	0.015	0.04	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2
1192179	Soil	10	38	1.02	930	0.075	1	2.59	0.014	0.31	<0.1	0.04	11.6	0.1	<0.05	9	<0.5	<0.2
1192480	Soil	26	31	1.34	525	0.244	<1	2.62	0.015	1.10	<0.1	0.02	6.0	0.4	<0.05	9	<0.5	<0.2
1194764	Soil	28	15	1.09	158	0.077	<1	2.13	0.008	0.51	<0.1	0.03	7.8	0.3	<0.05	8	<0.5	<0.2
1194895	Soil	18	51	0.81	187	0.095	1	1.75	0.018	0.08	0.2	0.03	5.6	<0.1	<0.05	6	<0.5	<0.2
1194894	Soil	16	31	0.82	149	0.104	<1	2.05	0.014	0.21	0.1	0.01	4.1	0.1	<0.05	6	<0.5	<0.2
1194889	Soil	9	16	1.43	152	0.172	<1	2.51	0.012	0.85	0.2	<0.01	4.0	0.3	<0.05	9	<0.5	<0.2
1194888	Soil	9	19	1.27	140	0.182	<1	2.50	0.011	0.89	0.1	0.01	4.2	0.3	<0.05	9	<0.5	<0.2
1194890	Soil	12	21	0.55	136	0.091	1	1.55	0.010	0.07	0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
1194814	Soil	12	24	0.66	121	0.120	3	1.79	0.013	0.14	0.2	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
1194776	Soil	12	22	0.64	117	0.116	<1	1.80	0.012	0.16	0.2	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1194775	Soil	12	27	0.73	190	0.100	<1	1.88	0.024	0.10	0.2	0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
1194771	Soil	10	33	0.54	230	0.070	2	1.58	0.019	0.04	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
1194893	Soil	10	25	0.80	122	0.102	2	2.10	0.010	0.07	0.1	0.01	3.3	0.1	<0.05	6	<0.5	<0.2
1194892	Soil	13	21	1.16	142	0.133	1	2.31	0.011	0.61	0.2	0.03	4.9	0.2	<0.05	9	<0.5	<0.2
1194774	Soil	11	30	0.52	205	0.078	2	1.62	0.013	0.04	0.2	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
1194773	Soil	9	40	0.78	192	0.109	<1	1.75	0.023	0.12	0.1	<0.01	5.4	0.1	<0.05	6	<0.5	<0.2
1194770	Soil	11	34	0.62	213	0.084	1	1.54	0.023	0.05	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
1192437	Soil	14	26	0.58	234	0.081	1	1.93	0.018	0.11	0.1	0.11	4.4	0.3	<0.05	7	0.6	<0.2
1035495	Soil	11	19	0.26	385	0.028	2	1.23	0.008	0.05	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
1035496	Soil	10	34	0.35	528	0.023	1	1.55	0.009	0.07	0.1	0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
1035460	Soil	11	37	0.16	376	0.045	2	0.72	0.014	0.11	0.1	0.03	2.2	0.1	<0.05	5	<0.5	<0.2
1035482	Soil	11	29	0.32	292	0.069	1	1.44	0.011	0.05	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
1035452	Soil	12	22	0.46	353	0.058	2	1.63	0.010	0.10	0.1	0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
1035476	Soil	11	29	0.35	407	0.065	2	1.82	0.011	0.05	0.1	0.03	3.2	<0.1	<0.05	6	0.6	<0.2
1035487	Soil	9	24	0.33	454	0.047	2	1.46	0.010	0.06	0.1	0.04	3.2	<0.1	<0.05	6	<0.5	<0.2
1035458	Soil	8	20	0.21	306	0.054	2	1.09	0.007	0.04	0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1035473	Soil		1.2	11.4	13.5	48	0.1	12.2	4.6	157	2.10	5.7	0.7	2.1	3.0	14	<0.1	0.3	0.2	47	0.18	0.020
1035485	Soil		0.8	12.2	8.3	52	<0.1	13.6	6.7	217	1.99	4.8	0.6	13.2	1.7	25	0.1	0.3	0.1	44	0.38	0.048
1035472	Soil		1.6	21.5	29.5	50	0.3	10.1	14.0	1136	2.80	5.9	1.6	2.0	3.7	30	0.2	0.3	0.2	49	0.45	0.038
1035486	Soil		1.0	19.5	9.1	57	0.1	18.8	10.5	473	2.27	6.3	0.9	23.5	2.2	37	0.3	0.4	0.1	46	0.60	0.070
1035451	Soil		1.8	13.7	18.6	48	0.1	15.8	6.2	224	2.11	5.8	0.7	4.1	1.2	29	<0.1	0.3	0.2	42	0.37	0.048
1035483	Soil		1.2	17.8	11.2	42	0.2	14.5	5.9	137	2.08	4.6	0.8	2.4	2.0	27	0.2	0.3	0.2	42	0.34	0.030
1035479	Soil		2.1	19.9	21.5	52	0.1	20.2	7.7	285	2.46	6.0	1.1	1.6	1.7	31	0.2	0.3	0.3	50	0.37	0.040
1035463	Soil		1.4	13.8	15.3	63	<0.1	15.3	8.5	335	2.93	7.3	0.6	2.1	3.6	16	<0.1	0.4	0.2	53	0.22	0.033
1197719	Soil		0.6	22.0	4.4	48	<0.1	13.0	12.0	381	2.82	5.1	0.4	0.7	4.1	27	<0.1	0.3	<0.1	66	0.42	0.044
1197570	Soil		1.0	38.4	7.1	94	<0.1	18.5	16.6	751	4.52	6.7	0.8	12.6	8.3	33	<0.1	0.5	0.1	97	0.58	0.069
1197785	Soil		1.2	20.3	9.5	48	<0.1	15.7	9.7	343	2.55	6.8	1.1	2.2	4.8	26	<0.1	0.4	0.1	54	0.46	0.039
1035481	Soil		0.7	12.0	11.4	43	0.1	12.4	5.3	153	2.01	4.5	0.5	1.0	2.0	21	0.1	0.3	0.2	44	0.33	0.032
1197717	Soil		0.8	26.5	7.8	55	<0.1	18.8	10.4	483	2.52	5.9	1.4	3.8	3.9	38	0.2	0.3	0.1	54	0.82	0.062
1197701	Soil		0.8	25.0	9.2	73	<0.1	19.6	16.4	556	3.87	7.4	0.6	0.9	6.7	20	<0.1	0.4	0.1	88	0.28	0.027
1197791	Soil		1.1	17.5	10.4	44	0.3	20.4	8.5	279	2.39	7.4	0.5	0.9	3.5	21	0.1	0.5	0.1	58	0.31	0.015
1035500	Soil		0.7	23.8	8.8	40	<0.1	17.0	8.9	288	2.76	5.6	1.2	1.8	7.5	21	<0.1	0.5	0.1	42	0.21	0.012
1197716	Soil		1.1	22.9	7.4	65	<0.1	20.0	15.3	373	3.55	11.1	1.1	3.5	9.4	24	<0.1	0.5	<0.1	81	0.39	0.024
1196875	Soil		0.9	28.9	8.4	60	<0.1	26.0	13.2	456	3.18	9.0	0.8	3.3	5.3	30	<0.1	0.5	0.1	70	0.45	0.041
1197720	Soil		1.0	17.3	6.5	53	<0.1	16.0	13.2	430	3.10	5.2	0.5	1.2	4.3	30	<0.1	0.3	<0.1	71	0.45	0.043
1197715	Soil		1.2	36.7	6.0	71	<0.1	14.6	15.8	529	4.17	13.3	1.1	2.0	9.9	22	<0.1	0.5	0.1	106	0.42	0.046
197703	Soil		0.7	15.9	4.8	102	<0.1	13.9	18.2	728	4.32	5.0	0.4	<0.5	6.4	19	<0.1	0.3	0.1	99	0.31	0.039
1197722	Soil		0.9	24.9	5.0	96	<0.1	11.0	16.5	740	4.92	3.8	0.9	0.6	9.1	26	<0.1	0.3	0.1	112	0.58	0.075
1197718	Soil		1.1	26.0	9.7	104	<0.1	24.1	25.8	721	5.98	17.3	1.2	<0.5	11.6	25	<0.1	0.3	<0.1	145	0.56	0.086
1197702	Soil		1.0	23.1	8.4	52	<0.1	24.2	10.6	309	2.73	9.6	0.6	1.9	3.3	24	<0.1	0.6	0.1	58	0.29	0.026
1035493	Soil		1.1	17.1	15.9	51	<0.1	18.9	8.2	225	2.83	9.1	0.5	1.7	2.8	21	<0.1	0.5	0.2	58	0.24	0.029
1194945	Soil		0.9	23.8	7.1	87	<0.1	16.8	7.3	1001	3.47	5.5	0.8	<0.5	3.5	25	<0.1	0.4	<0.1	36	0.29	0.031
1194937	Soil		22.5	98.0	12.9	480	0.2	137.1	18.1	664	4.81	41.0	3.0	1.0	5.2	80	1.7	0.6	0.2	177	1.25	0.486
1194847	Soil		0.6	68.2	13.5	63	0.2	36.1	19.2	589	3.33	4.1	0.4	1.6	3.6	146	<0.1	0.3	0.2	78	0.76	0.069
1035497	Soil		0.8	18.0	48.5	40	<0.1	12.9	9.6	322	3.02	5.6	0.6	1.3	2.6	16	<0.1	0.7	0.6	41	0.19	0.029
1035478	Soil		1.3	18.5	19.7	57	0.1	14.5	6.3	209	2.55	6.8	0.7	1.8	1.7	20	0.1	0.4	0.2	52	0.22	0.041

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Project: HEN  
 Report Date: July 19, 2011

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.5	0.2
1035473	Soil	13	23	0.32	322	0.056	1	1.42	0.009	0.06	0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
1035485	Soil	10	23	0.37	305	0.051	1	1.36	0.014	0.04	0.2	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1035472	Soil	26	23	0.26	531	0.043	2	1.39	0.012	0.07	0.1	0.03	4.3	<0.1	<0.05	6	0.7	<0.2
1035486	Soil	13	26	0.39	468	0.047	1	1.30	0.015	0.04	0.2	0.05	3.6	<0.1	<0.05	4	0.6	<0.2
1035451	Soil	11	29	0.31	655	0.040	2	1.49	0.010	0.05	0.2	0.04	3.0	<0.1	<0.05	5	0.5	<0.2
1035483	Soil	11	25	0.26	412	0.059	<1	1.57	0.011	0.05	0.1	0.05	3.1	<0.1	<0.05	6	<0.5	<0.2
1035479	Soil	15	35	0.33	631	0.062	2	1.51	0.013	0.06	0.2	0.05	3.7	<0.1	<0.05	6	<0.5	<0.2
1035463	Soil	10	29	0.42	349	0.065	2	1.76	0.010	0.06	0.1	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
1197719	Soil	8	16	0.86	194	0.114	2	1.63	0.009	0.42	<0.1	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2
1197570	Soil	20	27	1.11	311	0.163	1	2.24	0.017	0.61	0.1	0.04	6.3	0.2	<0.05	8	0.5	<0.2
1197785	Soil	18	25	0.50	336	0.076	1	1.50	0.013	0.07	0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
1035481	Soil	9	23	0.27	341	0.062	1	1.43	0.012	0.04	0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
1197717	Soil	19	23	0.59	324	0.081	2	1.39	0.016	0.14	0.2	0.07	3.8	<0.1	<0.05	4	<0.5	<0.2
1197701	Soil	16	26	1.17	224	0.176	1	2.14	0.011	0.88	<0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
1197791	Soil	13	30	0.48	251	0.068	1	1.43	0.010	0.06	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
1035500	Soil	15	24	0.54	347	0.029	1	1.84	0.010	0.06	<0.1	0.02	9.4	<0.1	<0.05	6	<0.5	<0.2
1197716	Soil	21	28	0.93	280	0.107	1	1.94	0.014	0.29	0.1	0.04	7.6	0.1	<0.05	6	0.6	<0.2
1196875	Soil	24	30	0.83	248	0.118	1	1.68	0.016	0.22	<0.1	0.03	5.4	0.1	<0.05	5	<0.5	<0.2
1197720	Soil	12	22	0.81	258	0.102	1	1.67	0.011	0.25	0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1197715	Soil	29	25	1.02	316	0.145	1	2.01	0.018	0.52	0.3	0.02	9.4	0.2	<0.05	7	<0.5	<0.2
197703	Soil	12	18	1.49	318	0.201	<1	2.59	0.010	1.19	<0.1	<0.01	2.3	0.2	0.08	7	<0.5	<0.2
1197722	Soil	12	18	1.33	298	0.099	<1	2.47	0.010	0.47	<0.1	0.01	7.8	0.1	<0.05	10	<0.5	<0.2
1197718	Soil	20	33	1.89	269	0.264	2	2.79	0.020	1.11	0.3	0.01	6.1	0.2	<0.05	12	0.5	<0.2
1197702	Soil	15	33	0.51	252	0.078	<1	1.53	0.015	0.10	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
1035493	Soil	10	31	0.38	532	0.035	1	1.91	0.012	0.05	0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
1194945	Soil	18	24	0.44	198	0.059	<1	1.69	0.009	0.31	0.1	0.02	8.7	0.1	<0.05	7	<0.5	<0.2
1194937	Soil	23	80	0.77	303	0.062	1	1.60	0.012	0.30	0.2	0.02	9.6	0.3	<0.05	8	3.4	<0.2
1194847	Soil	13	67	1.48	267	0.133	1	2.00	0.021	0.49	0.1	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
1035497	Soil	8	22	0.32	294	0.030	1	1.64	0.008	0.07	0.1	<0.01	4.1	<0.1	<0.05	5	0.6	<0.2
1035478	Soil	12	26	0.29	468	0.052	2	1.77	0.011	0.06	0.2	0.04	3.2	<0.1	<0.05	7	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1035494	Soil	1.1	13.3	42.1	55	0.1	13.0	6.6	290	2.75	5.8	0.9	1.4	4.0	20	<0.1	0.3	0.5	40	0.27	0.037
1194808	Soil	1.0	30.9	4.3	65	<0.1	8.2	7.7	761	3.36	1.7	0.5	1.8	3.8	11	<0.1	0.1	<0.1	36	0.24	0.038
1035498	Soil	1.0	18.5	9.7	46	<0.1	20.5	9.8	266	2.82	8.3	0.5	3.6	2.9	20	<0.1	0.5	0.1	58	0.22	0.033
1035477	Soil	1.6	28.8	22.2	60	0.3	15.9	5.8	185	2.66	7.5	1.3	2.6	0.6	30	0.2	0.4	0.3	46	0.32	0.065
1035457	Soil	1.3	23.4	23.1	56	0.2	18.6	7.7	321	2.66	6.4	1.0	<0.5	1.1	26	0.2	0.3	0.3	52	0.34	0.066
1035480	Soil	1.3	21.4	19.8	56	0.1	19.2	11.7	636	3.48	7.5	1.1	3.1	3.0	34	<0.1	0.4	0.2	58	0.51	0.036
1035484	Soil	0.7	14.6	7.1	49	<0.1	12.2	7.7	236	2.10	4.4	0.6	2.7	2.0	27	0.2	0.3	0.1	43	0.47	0.057
1035492	Soil	0.9	22.2	7.7	54	0.2	16.9	9.9	423	2.24	5.1	0.6	2.7	1.9	33	0.3	0.4	0.1	48	0.46	0.061
1035499	Soil	0.9	25.8	8.9	42	<0.1	19.7	9.2	286	3.05	6.4	1.2	0.8	6.4	23	<0.1	0.6	0.2	42	0.24	0.013
1035462	Soil	1.2	11.1	13.5	54	<0.1	12.7	5.4	207	2.38	6.7	0.5	3.1	2.3	18	<0.1	0.3	0.2	47	0.24	0.037
1197723	Soil	0.5	22.1	4.8	104	<0.1	10.2	23.0	1057	5.59	2.6	0.7	0.7	4.5	67	<0.1	0.2	<0.1	123	0.91	0.085
1197573	Soil	1.1	20.2	9.9	58	<0.1	21.3	13.0	573	3.14	6.4	1.0	1.6	5.1	36	0.2	0.4	0.1	64	0.68	0.044
1197790	Soil	1.1	19.0	10.5	93	<0.1	11.4	19.6	823	4.59	3.0	1.0	0.6	5.6	43	0.3	0.3	<0.1	97	0.95	0.071
1197789	Soil	1.0	14.4	8.6	58	<0.1	21.9	11.2	409	3.09	9.2	0.4	1.7	3.6	15	<0.1	0.5	0.1	64	0.16	0.036
1197721	Soil	0.9	31.0	10.3	61	<0.1	22.3	12.6	508	3.04	7.8	0.8	3.8	4.2	39	0.2	0.5	0.1	64	0.94	0.066
1197582	Soil	1.1	47.2	6.7	91	<0.1	23.7	16.3	733	4.50	7.7	0.6	2.1	5.4	30	<0.1	0.4	<0.1	91	0.53	0.043
1197724	Soil	0.5	23.1	4.6	109	<0.1	11.7	24.1	1127	5.91	2.7	0.7	0.9	4.6	69	<0.1	0.2	<0.1	132	0.93	0.089
1197726	Soil	1.2	40.1	7.0	91	<0.1	22.7	18.7	729	4.63	5.5	0.6	3.3	7.2	44	<0.1	0.4	<0.1	99	0.65	0.061
1197788	Soil	0.8	17.3	9.9	74	<0.1	13.1	12.3	587	3.33	5.5	0.7	3.1	3.8	35	0.3	0.3	0.1	67	0.83	0.042
1197787	Soil	1.6	17.4	12.2	49	<0.1	20.9	10.9	287	3.05	8.1	0.5	0.9	3.6	25	<0.1	0.5	0.2	66	0.35	0.027
1197725	Soil	1.6	35.4	9.1	99	<0.1	16.3	20.3	954	5.66	5.2	1.6	0.5	11.2	41	<0.1	0.5	0.1	127	0.82	0.084
1197714	Soil	1.3	22.8	8.9	70	<0.1	23.6	14.2	539	3.94	8.2	0.8	1.6	6.4	29	<0.1	0.4	<0.1	84	0.48	0.069
1194915	Soil	1.0	19.6	10.2	54	<0.1	18.5	8.0	372	2.94	7.5	0.7	2.5	2.7	23	<0.1	0.5	<0.1	41	0.27	0.033
1194782	Soil	1.0	85.1	5.8	80	<0.1	25.3	16.8	536	4.22	4.7	0.7	0.7	4.2	38	<0.1	0.4	<0.1	75	0.67	0.093
1194914	Soil	1.0	18.4	11.1	53	<0.1	21.2	8.5	267	2.83	9.1	0.7	0.9	3.5	24	<0.1	0.5	0.1	53	0.30	0.042
1197574	Soil	0.5	18.7	7.3	47	<0.1	17.6	8.4	306	2.21	6.1	0.5	2.0	3.1	38	<0.1	0.4	0.1	50	0.89	0.056
1194909	Soil	1.2	12.9	11.1	33	<0.1	12.0	5.6	199	1.88	5.5	0.7	1.5	3.1	11	<0.1	1.1	0.1	33	0.11	0.013
1194922	Soil	1.5	15.8	10.0	54	<0.1	19.2	8.8	407	3.19	7.6	0.4	1.2	2.8	11	<0.1	0.4	0.1	51	0.18	0.053
1194910	Soil	1.1	23.5	8.7	47	<0.1	17.4	9.5	219	2.80	8.0	0.6	3.2	3.5	21	<0.1	0.6	0.1	53	0.26	0.030
1194921	Soil	1.1	24.2	9.7	46	<0.1	23.9	8.6	213	2.52	7.9	0.7	3.5	3.9	20	<0.1	0.5	0.1	57	0.28	0.016



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1035494	Soil	15	21	0.32	704	0.042	2	1.48	0.011	0.08	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
1194808	Soil	23	10	0.68	123	0.096	<1	1.54	0.007	0.51	0.1	<0.01	8.3	0.2	<0.05	7	<0.5	<0.2
1035498	Soil	11	30	0.42	290	0.053	<1	1.85	0.010	0.05	0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
1035477	Soil	16	25	0.26	846	0.032	2	1.81	0.012	0.07	0.1	0.08	3.8	<0.1	<0.05	7	0.8	<0.2
1035457	Soil	16	28	0.31	683	0.055	<1	1.68	0.012	0.08	0.2	0.04	4.2	0.1	<0.05	7	<0.5	<0.2
1035480	Soil	18	37	0.31	835	0.043	1	2.78	0.013	0.09	<0.1	0.05	6.7	<0.1	<0.05	9	0.6	<0.2
1035484	Soil	12	21	0.32	349	0.059	1	1.30	0.014	0.05	0.2	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
1035492	Soil	11	25	0.40	355	0.056	1	1.35	0.019	0.04	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
1035499	Soil	18	25	0.55	375	0.031	1	2.14	0.009	0.08	<0.1	0.02	10.1	0.1	<0.05	8	<0.5	<0.2
1035462	Soil	11	24	0.31	363	0.050	1	1.46	0.010	0.06	0.2	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
1197723	Soil	19	13	1.91	572	0.222	1	3.06	0.013	1.03	<0.1	<0.01	5.1	0.2	<0.05	11	<0.5	<0.2
1197573	Soil	21	30	0.67	281	0.101	1	1.72	0.017	0.22	0.2	0.05	4.1	0.1	<0.05	6	<0.5	<0.2
1197790	Soil	15	18	1.59	343	0.196	2	2.45	0.015	1.04	<0.1	0.04	2.4	0.2	<0.05	7	<0.5	<0.2
1197789	Soil	11	36	0.48	233	0.090	<1	1.72	0.012	0.22	0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
1197721	Soil	15	28	0.68	281	0.097	1	1.71	0.022	0.18	0.2	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
1197582	Soil	17	32	1.33	287	0.160	<1	2.29	0.020	0.57	0.2	0.05	4.1	0.2	<0.05	7	<0.5	<0.2
1197724	Soil	19	13	2.00	602	0.238	<1	3.23	0.013	1.11	<0.1	<0.01	5.1	0.2	<0.05	11	<0.5	<0.2
1197726	Soil	18	31	1.45	379	0.199	1	2.68	0.014	0.64	0.1	0.03	4.3	0.3	<0.05	8	<0.5	<0.2
1197788	Soil	14	22	0.81	261	0.115	2	1.72	0.020	0.42	0.2	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
1197787	Soil	14	31	0.56	283	0.085	<1	1.72	0.015	0.10	0.2	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
1197725	Soil	21	24	1.45	366	0.114	<1	2.96	0.014	0.60	0.1	0.01	10.0	0.1	<0.05	11	<0.5	<0.2
1197714	Soil	19	34	1.03	339	0.124	1	2.14	0.013	0.59	0.2	0.02	6.0	0.2	<0.05	7	0.5	<0.2
1194915	Soil	12	25	0.29	442	0.027	<1	1.42	0.010	0.09	0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
1194782	Soil	20	24	1.30	546	0.108	<1	2.18	0.023	0.23	<0.1	0.02	8.6	<0.1	<0.05	9	<0.5	<0.2
1194914	Soil	15	32	0.40	374	0.048	<1	1.74	0.009	0.06	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
1197574	Soil	8	26	0.56	235	0.074	3	1.25	0.018	0.13	0.2	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
1194909	Soil	11	23	0.22	202	0.017	1	1.14	0.006	0.06	0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1194922	Soil	7	29	0.43	190	0.094	<1	1.66	0.007	0.27	0.2	0.01	3.3	0.1	<0.05	6	<0.5	<0.2
1194910	Soil	12	27	0.35	525	0.038	1	1.34	0.010	0.05	0.1	0.03	4.9	<0.1	<0.05	4	1.2	<0.2
1194921	Soil	14	40	0.39	363	0.066	2	1.53	0.011	0.04	0.1	0.02	4.5	<0.1	<0.05	5	0.9	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1194920	Soil	0.7	18.1	9.0	41	<0.1	17.9	7.5	169	2.36	7.9	0.5	5.1	3.1	16	<0.1	0.4	0.2	56	0.25	0.037
1194928	Soil	1.2	18.5	12.5	44	<0.1	20.4	7.5	189	2.38	7.3	0.8	3.5	3.4	21	<0.1	0.5	0.2	55	0.30	0.028
1194780	Soil	1.1	23.7	22.1	56	<0.1	19.5	8.9	358	2.80	7.4	0.8	2.5	3.7	23	<0.1	0.5	0.2	52	0.31	0.032
1194917	Soil	1.4	36.7	10.0	64	<0.1	29.5	9.7	401	3.17	8.2	0.6	2.7	5.2	25	<0.1	0.6	0.2	56	0.37	0.030
1194927	Soil	1.4	29.0	14.2	57	<0.1	23.1	9.8	366	2.76	8.4	1.0	2.7	3.9	26	0.1	0.6	0.2	58	0.36	0.025
1194929	Soil	1.0	17.4	10.0	41	<0.1	17.6	7.3	177	2.33	7.2	0.7	1.0	3.2	21	<0.1	0.4	0.2	56	0.30	0.029
1194918	Soil	0.8	12.9	12.2	53	<0.1	12.7	8.8	254	3.05	3.8	0.6	3.5	3.3	23	<0.1	0.4	<0.1	45	0.35	0.029
1194925	Soil	1.9	20.8	15.2	49	<0.1	28.6	10.7	222	3.03	10.3	0.6	1.7	3.6	19	<0.1	0.6	0.2	65	0.25	0.024
1194919	Soil	0.8	41.3	12.6	164	<0.1	50.1	22.3	999	4.83	5.8	1.1	2.0	2.5	36	<0.1	0.5	0.1	137	0.66	0.037
1194911	Soil	1.9	31.4	9.3	47	<0.1	33.4	8.2	366	2.70	8.8	0.7	3.0	4.0	25	<0.1	0.6	0.2	53	0.34	0.026
1194926	Soil	1.6	18.6	50.9	38	<0.1	16.1	7.1	237	2.82	8.4	0.6	1.1	2.6	18	<0.1	0.9	0.3	55	0.26	0.029
1194916	Soil	1.7	101.2	26.0	292	<0.1	15.3	10.1	756	5.15	9.5	1.4	1.0	6.5	19	0.2	0.4	0.5	43	0.30	0.048
1197224	Soil	0.8	16.6	11.5	50	<0.1	15.8	7.3	271	3.11	5.4	0.8	1.8	3.0	23	<0.1	0.3	0.2	40	0.30	0.020
1194923	Soil	1.3	29.7	12.3	62	<0.1	29.6	9.8	471	2.97	9.2	0.6	10.8	3.9	30	<0.1	0.5	0.2	62	0.46	0.053
1194931	Soil	1.0	17.5	21.8	43	<0.1	15.9	7.1	208	2.47	7.8	0.5	0.6	3.1	19	<0.1	0.4	0.2	56	0.27	0.032
1194907	Soil	1.5	17.2	9.9	50	<0.1	19.3	7.0	279	2.84	6.0	0.6	<0.5	4.8	23	<0.1	0.6	<0.1	43	0.30	0.016
1194908	Soil	0.8	24.4	11.7	49	<0.1	16.7	9.1	514	3.80	5.3	0.7	1.7	3.0	21	0.1	1.2	0.1	50	0.29	0.046
1197222	Soil	1.0	13.9	7.8	46	<0.1	13.7	6.8	230	2.30	4.6	0.9	1.2	2.6	18	<0.1	0.3	<0.1	34	0.23	0.012
1194912	Soil	0.9	18.3	8.6	43	<0.1	19.4	8.4	179	2.51	9.0	0.7	<0.5	3.4	20	<0.1	0.5	0.2	59	0.29	0.038
1197217	Soil	1.4	24.9	9.9	57	<0.1	30.3	9.9	374	3.14	9.1	0.9	3.2	5.1	30	<0.1	0.6	0.1	59	0.42	0.034
1197218	Soil	0.4	4.2	14.1	9	<0.1	4.9	2.4	91	1.08	3.9	0.4	<0.5	1.6	22	<0.1	2.3	0.3	14	0.32	0.006
1197219	Soil	1.3	18.0	14.0	51	<0.1	22.7	9.7	257	2.97	9.7	0.9	<0.5	4.2	21	<0.1	0.7	0.2	54	0.24	0.019
1194924	Soil	1.1	24.7	29.0	52	<0.1	21.3	9.2	330	2.78	7.6	0.8	2.5	3.9	26	<0.1	0.5	0.3	63	0.36	0.033
1197220	Soil	1.6	14.1	20.0	53	<0.1	19.5	8.1	215	3.29	8.7	0.6	<0.5	3.1	14	<0.1	0.9	0.2	44	0.15	0.023
1194932	Soil	0.9	84.1	6.8	76	<0.1	22.3	16.0	532	4.07	4.7	0.6	1.5	4.2	34	<0.1	0.4	<0.1	78	0.62	0.096
1197221	Soil	1.3	17.0	15.5	59	<0.1	23.0	8.8	229	3.11	8.5	0.8	0.9	4.6	19	<0.1	0.7	0.2	53	0.21	0.014
1194913	Soil	1.9	21.8	16.3	68	<0.1	23.9	8.8	552	3.48	8.0	0.7	2.8	4.4	21	<0.1	0.5	0.1	44	0.29	0.042
1194930	Soil	1.2	32.2	12.5	82	<0.1	23.2	14.2	771	4.28	5.1	1.1	<0.5	6.9	27	<0.1	0.3	0.1	61	0.33	0.028
1197749	Soil	0.9	35.1	5.1	91	<0.1	10.2	23.6	713	5.05	2.3	0.2	<0.5	1.5	21	0.1	<0.1	<0.1	156	0.53	0.100
1197743	Soil	2.7	39.3	9.3	84	<0.1	44.5	13.2	377	3.91	25.6	0.6	2.0	2.8	30	0.2	0.4	0.2	109	0.53	0.080

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1194920	Soil	10	28	0.37	237	0.047	<1	1.52	0.008	0.04	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
1194928	Soil	12	36	0.37	363	0.055	1	1.53	0.011	0.03	0.1	0.03	3.9	<0.1	<0.05	5	0.8	<0.2
1194780	Soil	15	33	0.42	829	0.056	1	1.56	0.010	0.06	0.1	0.02	5.6	<0.1	<0.05	5	0.7	<0.2
1194917	Soil	19	40	0.42	489	0.074	<1	1.70	0.013	0.12	0.1	0.03	6.6	<0.1	<0.05	5	0.8	<0.2
1194927	Soil	16	38	0.41	511	0.070	<1	1.71	0.011	0.05	0.1	0.04	6.2	<0.1	<0.05	5	0.8	<0.2
1194929	Soil	13	34	0.38	345	0.059	1	1.46	0.011	0.04	0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
1194918	Soil	13	19	0.45	391	0.024	2	1.66	0.008	0.14	<0.1	0.01	5.6	<0.1	<0.05	6	0.7	<0.2
1194925	Soil	11	48	0.43	281	0.058	<1	1.94	0.010	0.05	0.2	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
1194919	Soil	11	111	1.42	620	0.111	1	2.49	0.022	0.14	<0.1	0.03	11.8	<0.1	<0.05	9	<0.5	<0.2
1194911	Soil	14	48	0.37	468	0.062	2	1.48	0.015	0.05	0.1	0.04	5.9	<0.1	<0.05	4	0.6	<0.2
1194926	Soil	7	27	0.28	243	0.035	<1	1.67	0.007	0.05	<0.1	<0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
1194916	Soil	20	20	0.56	560	0.168	1	1.89	0.010	0.62	<0.1	0.03	7.3	0.3	<0.05	8	<0.5	<0.2
1197224	Soil	11	24	0.51	299	0.109	2	1.55	0.014	0.19	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
1194923	Soil	13	39	0.60	358	0.110	<1	1.67	0.018	0.13	0.2	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
1194931	Soil	12	26	0.34	231	0.071	2	1.52	0.017	0.08	0.2	0.02	3.4	0.1	<0.05	6	<0.5	<0.2
1194907	Soil	18	30	0.39	274	0.040	1	1.63	0.012	0.06	<0.1	0.03	6.4	<0.1	<0.05	6	0.6	<0.2
1194908	Soil	19	22	0.38	439	0.023	2	1.70	0.010	0.11	<0.1	0.03	10.2	<0.1	<0.05	6	<0.5	<0.2
1197222	Soil	11	23	0.52	205	0.102	<1	1.78	0.018	0.07	<0.1	0.02	5.0	<0.1	<0.05	7	0.7	<0.2
1194912	Soil	14	32	0.43	297	0.059	<1	1.72	0.011	0.04	0.2	0.01	3.5	<0.1	<0.05	5	0.7	<0.2
1197217	Soil	18	49	0.60	360	0.076	1	1.92	0.014	0.09	0.1	0.03	6.1	<0.1	<0.05	6	0.7	<0.2
1197218	Soil	6	8	0.09	110	0.016	2	0.71	0.004	0.03	<0.1	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
1197219	Soil	12	37	0.46	247	0.075	<1	1.99	0.011	0.06	<0.1	0.02	4.8	0.1	<0.05	6	0.5	<0.2
1194924	Soil	16	36	0.43	477	0.092	1	1.80	0.013	0.07	0.1	0.02	5.2	<0.1	<0.05	6	<0.5	<0.2
1197220	Soil	7	33	0.35	213	0.041	2	1.88	0.009	0.08	0.1	0.03	4.9	<0.1	<0.05	6	0.9	<0.2
1194932	Soil	17	21	1.19	496	0.113	<1	2.07	0.020	0.21	<0.1	0.03	7.1	<0.1	<0.05	8	0.9	<0.2
1197221	Soil	18	37	0.45	271	0.051	2	1.91	0.011	0.07	<0.1	0.02	5.1	<0.1	<0.05	6	0.8	<0.2
1194913	Soil	15	38	0.35	641	0.038	2	1.64	0.011	0.10	<0.1	0.03	7.9	<0.1	<0.05	6	<0.5	<0.2
1194930	Soil	27	38	0.94	668	0.157	2	2.49	0.019	0.37	<0.1	0.02	10.6	0.2	<0.05	9	<0.5	<0.2
1197749	Soil	2	23	1.87	249	0.261	1	3.39	0.029	0.72	<0.1	<0.01	4.9	0.2	<0.05	9	<0.5	<0.2
1197743	Soil	10	79	1.16	284	0.141	2	2.25	0.013	0.19	0.2	0.02	4.0	0.1	<0.05	9	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1196134	Soil		3.1	50.8	10.0	89	<0.1	40.3	13.5	465	3.34	59.4	1.1	<0.5	4.1	24	0.2	0.5	0.2	89	0.54	0.097
1196133	Soil		3.3	61.4	8.4	100	<0.1	54.0	15.7	562	4.25	80.3	1.4	<0.5	3.9	26	0.3	0.5	0.2	93	0.61	0.129
1198190	Soil		1.4	15.4	9.4	58	<0.1	14.0	10.1	303	2.85	5.9	0.9	2.5	5.7	20	<0.1	0.4	0.3	68	0.35	0.024
1198197	Soil		2.3	27.0	8.9	68	0.2	20.3	11.0	470	2.69	5.8	4.2	<0.5	6.7	46	0.3	0.5	<0.1	53	1.18	0.079
1197744	Soil		2.7	54.0	23.1	87	0.2	50.9	16.1	445	3.13	116.7	1.3	<0.5	10.4	55	0.3	2.7	0.1	25	1.33	0.046
1193663	Soil		2.4	25.1	15.4	99	0.1	26.8	7.5	220	2.38	22.3	1.1	0.7	1.5	19	0.3	0.4	0.1	92	0.39	0.085
1198173	Soil		1.2	17.8	11.6	60	<0.1	20.1	8.8	331	2.95	6.2	1.0	0.7	7.3	15	<0.1	0.4	0.1	61	0.18	0.028
1198172	Soil		1.4	19.9	18.9	63	<0.1	22.0	12.6	509	3.72	5.2	1.0	<0.5	6.7	24	<0.1	0.3	0.1	67	0.37	0.055
1198175	Soil		1.8	13.5	14.8	59	<0.1	16.5	9.4	385	3.42	8.0	0.7	2.5	6.0	14	<0.1	0.5	0.1	75	0.20	0.025
1198184	Soil		1.1	16.1	8.7	52	<0.1	16.9	10.6	324	2.72	6.6	0.6	<0.5	4.1	21	<0.1	0.4	<0.1	62	0.30	0.038
1198199	Soil		1.9	11.2	11.5	29	<0.1	10.9	3.6	155	1.29	2.8	0.7	1.4	1.3	12	0.1	0.2	0.1	33	0.16	0.034
1198179	Soil		3.2	23.5	9.2	65	0.1	29.4	12.0	381	3.14	4.4	1.0	<0.5	6.7	25	<0.1	0.3	<0.1	69	0.60	0.061
1198174	Soil		3.0	17.0	10.9	80	<0.1	19.4	11.2	614	3.97	5.9	0.9	<0.5	4.1	13	<0.1	0.3	<0.1	73	0.17	0.043
1198200	Soil		2.2	20.6	8.7	73	<0.1	15.1	12.4	685	5.54	8.0	0.9	<0.5	7.9	8	0.1	0.4	0.1	94	0.11	0.062
1198181	Soil		1.0	15.6	7.8	57	0.1	15.0	7.4	225	2.21	6.3	0.7	2.1	1.5	27	0.3	0.4	<0.1	44	0.39	0.053
1198198	Soil		3.4	27.6	15.4	65	0.4	22.1	13.0	660	3.13	7.0	2.4	2.5	5.8	34	0.2	0.5	0.2	59	0.77	0.064
1198187	Soil		1.2	20.8	9.0	56	<0.1	15.3	11.0	461	3.19	4.8	1.0	0.9	7.2	25	0.1	0.4	<0.1	65	0.51	0.038
1198201	Soil		13.5	13.8	10.9	73	<0.1	11.5	11.7	553	3.83	4.8	0.4	<0.5	1.3	15	0.1	0.2	0.1	83	0.23	0.041
1198188	Soil		1.0	19.6	9.6	75	<0.1	13.8	13.9	759	3.64	5.2	0.6	<0.5	5.1	27	0.1	0.3	<0.1	85	0.51	0.052
1198183	Soil		1.5	19.2	8.5	49	<0.1	18.5	10.2	278	2.79	10.3	0.7	2.6	2.9	21	<0.1	0.6	<0.1	57	0.30	0.029
1193780	Soil		0.8	28.1	7.5	52	<0.1	18.1	11.2	1054	2.58	5.2	0.8	<0.5	3.5	33	0.6	0.4	<0.1	53	0.71	0.040
1198186	Soil		1.0	13.7	6.5	41	<0.1	13.3	7.9	255	2.59	6.1	0.5	0.7	2.9	21	<0.1	0.4	<0.1	59	0.32	0.029
1198176	Soil		1.7	10.0	10.2	45	<0.1	14.0	7.5	286	2.31	5.1	0.5	2.6	2.7	16	<0.1	0.2	<0.1	58	0.24	0.031
1193782	Soil		0.8	17.6	6.7	50	<0.1	14.6	7.7	361	2.56	5.3	0.5	<0.5	3.7	35	0.1	0.4	<0.1	50	0.81	0.043
1198178	Soil		2.0	13.1	7.9	57	<0.1	14.3	9.7	475	2.89	4.4	0.7	<0.5	3.2	18	<0.1	0.2	<0.1	60	0.37	0.058
1198185	Soil		1.0	16.4	6.1	62	<0.1	12.6	13.6	761	3.54	4.2	0.7	<0.5	6.6	26	<0.1	0.3	0.3	73	0.54	0.054
1198193	Soil		1.0	12.4	7.0	52	<0.1	14.1	6.5	179	2.03	7.2	0.5	1.8	1.0	20	0.2	0.4	<0.1	50	0.29	0.045
1198194	Soil		1.0	15.8	7.3	47	<0.1	13.9	7.0	225	1.93	6.5	0.6	1.8	1.8	21	0.2	0.3	<0.1	46	0.34	0.047
1198182	Soil		0.9	12.5	7.3	49	<0.1	12.6	7.2	254	2.10	7.1	0.6	1.1	0.8	20	0.2	0.3	<0.1	51	0.30	0.051
1198192	Soil		1.5	18.9	7.3	77	<0.1	14.6	13.4	510	3.83	5.6	1.0	1.9	7.7	21	<0.1	0.4	<0.1	85	0.42	0.039

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1196134	Soil	11	58	0.94	266	0.096	1	1.90	0.011	0.16	0.2	0.02	4.0	0.1	<0.05	7	<0.5	<0.2
1196133	Soil	13	74	1.06	356	0.105	<1	2.12	0.010	0.26	0.1	0.01	5.0	0.2	<0.05	8	0.6	<0.2
1198190	Soil	16	22	0.62	248	0.080	<1	1.51	0.010	0.20	0.1	0.03	3.4	0.2	<0.05	6	<0.5	<0.2
1198197	Soil	57	35	0.59	323	0.073	2	1.66	0.013	0.12	0.2	0.10	3.5	0.1	0.08	6	<0.5	<0.2
1197744	Soil	21	22	0.10	905	0.003	4	0.74	0.004	0.12	<0.1	0.09	3.1	<0.1	<0.05	2	1.4	<0.2
1193663	Soil	11	36	0.58	180	0.056	<1	1.57	0.010	0.04	0.1	0.03	2.7	<0.1	<0.05	5	0.7	<0.2
1198173	Soil	14	31	0.56	185	0.061	<1	1.90	0.009	0.08	0.1	0.05	3.5	0.1	<0.05	6	<0.5	<0.2
1198172	Soil	42	29	1.03	277	0.103	2	2.14	0.009	0.40	<0.1	0.03	5.6	0.3	<0.05	7	0.5	<0.2
1198175	Soil	13	26	0.68	159	0.137	<1	1.99	0.008	0.12	0.2	0.02	2.8	0.2	<0.05	9	<0.5	<0.2
1198184	Soil	10	26	0.61	259	0.092	<1	1.53	0.011	0.22	0.2	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
1198199	Soil	13	19	0.22	117	0.072	<1	0.83	0.009	0.08	0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
1198179	Soil	17	54	0.95	166	0.120	<1	1.93	0.013	0.22	0.2	0.03	2.7	0.2	<0.05	8	<0.5	<0.2
1198174	Soil	19	28	0.82	196	0.103	<1	1.99	0.007	0.28	0.1	0.02	6.6	0.2	<0.05	8	<0.5	<0.2
1198200	Soil	10	28	1.21	146	0.185	<1	2.84	0.009	0.54	0.1	0.02	5.7	0.2	<0.05	12	0.6	<0.2
1198181	Soil	14	24	0.40	221	0.048	1	1.40	0.014	0.06	0.2	0.08	2.7	<0.1	<0.05	5	0.6	<0.2
1198198	Soil	39	37	0.61	248	0.072	<1	2.02	0.016	0.11	0.2	0.08	4.0	0.1	<0.05	7	0.6	<0.2
1198187	Soil	23	23	0.65	277	0.098	1	1.75	0.012	0.45	0.1	0.05	5.7	0.1	<0.05	6	<0.5	<0.2
1198201	Soil	9	21	1.08	152	0.167	1	2.07	0.007	0.31	0.1	<0.01	3.4	0.2	<0.05	9	<0.5	<0.2
1198188	Soil	15	24	0.98	306	0.168	<1	2.07	0.011	0.69	0.1	0.03	3.2	0.2	<0.05	7	<0.5	<0.2
1198183	Soil	13	28	0.42	226	0.069	<1	1.46	0.013	0.07	0.2	0.03	3.3	<0.1	<0.05	5	0.8	<0.2
1193780	Soil	15	19	0.55	308	0.082	<1	1.47	0.018	0.24	0.1	0.03	3.7	<0.1	<0.05	5	0.9	<0.2
1198186	Soil	10	22	0.48	201	0.074	<1	1.42	0.011	0.14	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
1198176	Soil	11	30	0.63	134	0.094	<1	1.57	0.008	0.08	0.2	0.02	2.3	0.1	<0.05	7	<0.5	<0.2
1193782	Soil	12	21	0.52	308	0.075	1	1.47	0.016	0.18	0.1	0.04	3.5	<0.1	<0.05	5	0.7	<0.2
1198178	Soil	16	26	0.78	170	0.111	<1	1.79	0.010	0.21	0.1	0.03	2.8	0.1	<0.05	7	<0.5	<0.2
1198185	Soil	23	18	0.93	331	0.124	1	1.89	0.012	0.54	0.1	0.04	4.2	0.2	<0.05	6	<0.5	<0.2
1198193	Soil	10	22	0.39	167	0.050	1	1.26	0.012	0.05	0.2	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
1198194	Soil	11	22	0.33	169	0.052	1	1.14	0.014	0.05	0.3	0.03	2.2	<0.1	<0.05	4	0.7	<0.2
1198182	Soil	11	21	0.34	163	0.046	<1	1.25	0.011	0.05	0.2	0.04	2.1	<0.1	<0.05	4	0.6	<0.2
1198192	Soil	17	24	0.94	256	0.100	1	1.97	0.012	0.39	0.1	0.02	5.1	0.1	<0.05	8	0.6	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1196529	Soil	0.5	46.1	10.1	74	<0.1	16.9	12.8	418	3.43	7.5	0.6	1.7	1.7	25	<0.1	0.5	0.2	93	0.66	0.082
1196524	Soil	0.2	39.5	2.3	25	<0.1	13.7	10.3	218	1.71	2.9	0.2	<0.5	0.2	15	<0.1	0.3	<0.1	50	0.56	0.083
1198195	Soil	1.0	15.3	7.9	54	<0.1	14.5	9.0	359	2.22	7.5	0.7	<0.5	3.8	23	0.2	0.4	<0.1	47	0.40	0.065
1198189	Soil	0.5	29.9	8.0	67	0.1	25.4	9.4	353	2.47	9.1	0.4	0.5	3.2	35	0.2	0.7	<0.1	46	0.66	0.063
1196532	Soil	0.6	62.7	6.8	41	<0.1	21.5	15.2	432	3.85	8.7	0.6	1.0	2.6	34	<0.1	0.6	<0.1	96	0.80	0.089
1196526	Soil	0.7	39.3	6.9	42	<0.1	22.1	12.0	320	2.59	11.5	0.6	3.4	3.1	21	<0.1	0.6	0.2	67	0.57	0.072
1196530	Soil	1.0	40.4	6.3	48	<0.1	15.3	11.1	290	3.09	4.3	1.2	1.8	2.0	28	0.2	0.6	0.1	81	0.78	0.070
1198177	Soil	2.7	15.6	9.5	60	<0.1	18.3	10.6	420	3.45	9.1	0.8	2.5	5.8	17	0.1	0.4	0.2	73	0.22	0.057
1196535	Soil	1.1	55.1	12.4	127	0.2	29.5	11.3	794	3.94	10.0	0.9	7.2	5.2	25	0.2	1.2	0.2	65	0.38	0.016
1196521	Soil	0.8	43.0	14.2	74	<0.1	28.9	10.3	522	3.08	11.5	0.5	2.7	4.5	29	<0.1	0.9	0.1	64	0.48	0.055
1196525	Soil	0.5	33.9	5.9	41	<0.1	18.9	9.7	245	1.87	5.1	0.4	0.6	2.4	31	<0.1	0.3	0.1	45	0.41	0.066
1196531	Soil	0.8	51.6	6.4	46	0.1	23.4	11.9	321	2.78	9.2	1.4	3.4	3.8	26	<0.1	0.5	0.1	71	0.54	0.072
1196508	Soil	1.3	11.0	1.7	49	0.1	4.1	2.0	451	0.37	1.1	2.5	0.6	0.8	97	0.4	0.2	0.1	11	3.47	0.093
1196520	Soil	0.9	42.5	5.3	99	<0.1	20.7	13.7	623	3.89	6.7	0.8	2.3	4.0	29	<0.1	0.8	<0.1	95	0.54	0.071
1196513	Soil	1.0	41.8	7.2	69	<0.1	16.6	14.0	722	3.63	11.1	0.8	1.5	8.7	34	<0.1	0.7	<0.1	96	0.44	0.033
1196519	Soil	0.7	21.6	5.8	48	<0.1	14.2	12.0	495	2.72	3.1	0.3	0.9	2.1	29	<0.1	0.4	<0.1	69	0.60	0.090
1196536	Soil	1.0	37.8	9.1	59	<0.1	28.5	12.4	370	2.87	11.6	0.8	3.1	4.9	31	<0.1	0.8	0.2	69	0.43	0.027
1196523	Soil	0.4	33.3	7.4	55	0.1	22.9	8.8	370	2.49	8.6	0.7	3.7	2.9	69	<0.1	0.7	0.1	51	1.33	0.073
1196509	Soil	1.4	16.6	8.5	54	0.2	18.2	9.1	506	3.01	8.2	0.6	<0.5	4.4	26	<0.1	0.7	0.3	54	0.49	0.024
1196537	Soil	1.0	78.0	26.2	119	<0.1	28.6	9.7	842	4.64	9.4	1.8	5.9	18.7	28	0.3	1.1	0.2	60	0.44	0.030
1196512	Soil	1.7	18.3	7.9	71	<0.1	19.4	15.1	802	4.12	13.2	0.9	<0.5	8.2	27	<0.1	1.0	0.3	89	0.31	0.040
1196538	Soil	0.7	42.6	16.2	64	<0.1	29.3	11.1	522	2.75	11.4	0.6	5.1	4.6	38	0.1	0.8	0.2	60	0.54	0.030
1196522	Soil	0.6	45.3	13.0	73	<0.1	29.9	10.6	466	3.11	12.5	0.5	3.8	4.2	30	<0.1	0.9	0.1	66	0.51	0.051
1196507	Soil	1.0	113.4	120.5	132	0.1	17.9	12.3	847	4.33	7.6	1.0	3.5	5.4	27	0.1	0.8	1.1	85	0.41	0.030
1196514	Soil	1.0	29.2	9.3	68	<0.1	12.5	18.6	786	3.94	7.3	0.6	0.5	4.1	32	<0.1	0.5	0.1	102	0.41	0.048
1196511	Soil	4.6	72.7	7.0	52	0.2	51.3	22.5	683	5.28	28.4	1.7	4.1	18.3	27	<0.1	0.8	0.7	85	0.58	0.096
1196518	Soil	0.8	19.5	6.7	78	<0.1	19.6	16.3	755	3.81	7.2	0.6	<0.5	4.1	43	0.1	0.5	0.1	94	0.44	0.057
1196541	Soil	1.0	73.4	87.9	118	0.2	22.2	8.8	993	3.83	8.6	1.1	5.0	5.6	30	0.4	0.9	0.7	48	1.10	0.043
1196528	Soil	0.8	84.6	10.6	136	<0.1	26.8	14.3	670	4.14	21.5	0.9	5.1	3.5	34	0.1	1.1	0.2	108	0.67	0.056
1196515	Soil	0.9	34.4	6.4	66	<0.1	13.2	14.3	642	3.73	10.6	0.8	2.1	8.1	33	<0.1	0.7	<0.1	86	0.51	0.041

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1196529	Soil	11	18	0.67	152	0.092	<1	1.66	0.024	0.19	<0.1	0.04	7.2	<0.1	<0.05	6	<0.5	<0.2
1196524	Soil	5	17	0.42	89	0.067	<1	0.89	0.030	0.06	<0.1	0.01	4.0	<0.1	<0.05	3	<0.5	<0.2
1198195	Soil	14	23	0.40	215	0.058	<1	1.23	0.013	0.07	0.3	0.05	3.1	<0.1	<0.05	4	0.6	<0.2
1198189	Soil	13	23	0.54	296	0.064	<1	1.28	0.023	0.06	0.2	0.05	3.2	<0.1	<0.05	4	0.8	<0.2
1196532	Soil	13	34	0.81	160	0.103	<1	2.09	0.027	0.06	0.2	0.05	7.6	<0.1	<0.05	8	<0.5	<0.2
1196526	Soil	10	26	0.52	127	0.062	1	1.16	0.028	0.05	0.1	0.03	4.5	<0.1	0.10	4	<0.5	<0.2
1196530	Soil	13	28	0.61	106	0.085	1	1.55	0.026	0.05	0.1	0.03	5.8	<0.1	0.07	6	<0.5	<0.2
1198177	Soil	12	36	0.64	184	0.081	2	2.11	0.008	0.10	0.2	0.02	3.7	0.1	0.06	8	<0.5	<0.2
1196535	Soil	28	82	0.55	306	0.042	<1	1.88	0.011	0.08	0.1	0.11	13.1	<0.1	<0.05	9	0.6	<0.2
1196521	Soil	18	30	0.58	246	0.069	1	1.56	0.017	0.08	0.1	0.06	6.6	<0.1	<0.05	6	0.5	<0.2
1196525	Soil	6	29	0.33	167	0.050	<1	1.38	0.014	0.07	0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
1196531	Soil	13	32	0.56	154	0.083	<1	1.56	0.022	0.06	0.1	0.04	5.1	<0.1	<0.05	5	0.5	<0.2
1196508	Soil	2	5	0.22	277	0.007	15	0.20	0.014	0.08	<0.1	0.09	0.5	<0.1	0.26	<1	0.6	<0.2
1196520	Soil	17	30	0.76	249	0.050	<1	1.94	0.015	0.07	<0.1	0.05	10.9	<0.1	<0.05	9	0.5	<0.2
1196513	Soil	15	21	1.17	255	0.183	<1	2.20	0.011	0.72	0.1	0.03	5.6	0.2	<0.05	7	<0.5	<0.2
1196519	Soil	7	22	0.45	318	0.067	1	1.55	0.018	0.10	<0.1	0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
1196536	Soil	17	39	0.60	254	0.095	<1	1.69	0.020	0.08	0.1	0.04	6.6	<0.1	<0.05	5	0.5	<0.2
1196523	Soil	13	25	0.58	335	0.067	3	1.27	0.023	0.07	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
1196509	Soil	15	31	0.34	271	0.046	2	1.62	0.013	0.12	0.1	0.02	5.7	0.2	<0.05	5	<0.5	<0.2
1196537	Soil	44	27	0.62	283	0.032	1	2.13	0.018	0.11	0.1	0.10	10.3	<0.1	<0.05	13	<0.5	<0.2
1196512	Soil	18	28	0.98	311	0.096	2	2.09	0.009	0.49	0.1	0.03	5.5	0.2	<0.05	8	<0.5	<0.2
1196538	Soil	17	31	0.52	325	0.080	1	1.51	0.021	0.07	0.2	0.05	4.8	<0.1	<0.05	5	<0.5	<0.2
1196522	Soil	17	31	0.58	230	0.074	1	1.54	0.018	0.09	0.2	0.07	6.6	<0.1	<0.05	6	<0.5	<0.2
1196507	Soil	20	26	1.23	222	0.041	<1	2.46	0.011	0.07	0.1	0.05	11.3	<0.1	<0.05	12	<0.5	<0.2
1196514	Soil	8	18	1.43	293	0.194	1	2.38	0.008	0.83	<0.1	<0.01	3.2	0.2	<0.05	7	<0.5	<0.2
1196511	Soil	42	48	1.51	339	0.106	1	2.57	0.012	0.69	<0.1	0.03	5.5	0.3	<0.05	8	<0.5	<0.2
1196518	Soil	12	28	0.96	343	0.185	2	2.39	0.011	0.61	0.1	0.02	4.4	0.2	<0.05	7	<0.5	<0.2
1196541	Soil	33	24	0.44	350	0.038	<1	1.42	0.017	0.08	0.2	0.08	9.9	<0.1	<0.05	7	0.5	<0.2
1196528	Soil	14	26	0.88	308	0.087	1	2.03	0.025	0.09	0.1	0.11	8.1	<0.1	<0.05	7	<0.5	<0.2
1196515	Soil	18	22	0.91	310	0.108	2	2.19	0.008	0.38	<0.1	0.03	5.1	0.1	<0.05	7	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1196516	Soil	1.1	39.8	8.8	49	<0.1	34.5	10.9	397	3.00	30.8	0.8	1.2	12.8	18	<0.1	0.7	0.3	73	0.32	0.055
1196510	Soil	1.3	18.4	7.6	54	<0.1	19.0	12.8	536	3.26	22.4	0.6	4.3	6.5	25	<0.1	0.5	0.1	71	0.40	0.034
1194841	Soil	0.4	9.7	4.5	63	<0.1	11.4	19.9	510	4.05	4.8	0.3	2.3	6.1	35	<0.1	0.2	<0.1	81	0.24	0.032
1194831	Soil	1.0	25.9	5.0	67	<0.1	12.0	13.4	871	3.53	4.8	0.9	2.7	8.5	28	<0.1	0.3	<0.1	83	0.35	0.045
1196533	Soil	0.6	70.7	6.1	47	<0.1	25.9	15.6	427	3.63	8.0	0.6	2.7	3.0	31	<0.1	0.7	<0.1	95	0.71	0.080
1196527	Soil	0.8	46.9	9.0	79	0.1	32.1	11.5	380	2.85	13.9	0.7	5.4	4.7	29	0.1	0.7	0.1	66	0.46	0.039
1194840	Soil	0.3	12.0	7.2	112	<0.1	9.6	16.3	676	3.81	4.6	0.4	1.4	7.3	41	<0.1	0.2	<0.1	88	0.41	0.056
1194839	Soil	0.8	16.4	10.8	48	<0.1	16.0	7.3	234	2.34	8.3	0.4	1.3	3.3	16	<0.1	0.4	0.1	57	0.14	0.018
1196517	Soil	1.1	79.4	10.9	76	0.1	43.2	17.2	392	3.38	31.8	0.9	1.1	9.7	19	0.2	2.6	0.1	91	0.31	0.054
1196534	Soil	1.5	161.7	19.2	465	0.4	20.6	17.6	564	3.89	18.9	0.7	2.2	3.3	26	0.8	0.7	0.1	97	0.43	0.027
1194845	Soil	1.1	14.0	9.6	66	<0.1	14.4	13.1	624	3.70	6.6	0.4	1.5	4.4	39	<0.1	0.3	0.2	91	0.18	0.030
1194813	Soil	0.7	12.3	6.4	90	<0.1	15.1	21.4	937	4.51	8.1	0.3	0.7	4.5	15	<0.1	0.3	<0.1	104	0.18	0.071
1194812	Soil	0.7	17.9	8.0	72	<0.1	19.8	14.3	479	3.49	8.1	0.5	2.6	5.1	21	<0.1	0.4	0.1	85	0.20	0.022
1194843	Soil	0.3	26.9	9.6	109	<0.1	10.5	20.4	1122	4.82	3.0	0.9	1.7	10.0	49	<0.1	0.2	<0.1	113	0.42	0.049
1194806	Soil	0.7	14.8	7.7	76	<0.1	17.1	15.9	570	3.87	7.0	0.4	1.7	5.1	42	<0.1	0.4	<0.1	94	0.17	0.017
1194805	Soil	0.4	15.4	11.3	120	<0.1	8.1	17.0	954	4.49	2.9	0.6	<0.5	5.9	91	<0.1	0.1	<0.1	112	0.28	0.022
1194844	Soil	0.2	20.3	5.3	94	<0.1	12.1	21.4	820	4.52	2.3	0.4	<0.5	8.3	33	<0.1	0.2	<0.1	106	0.33	0.069
1194842	Soil	0.3	21.2	5.7	74	<0.1	10.3	16.0	635	3.70	2.9	0.9	2.2	10.1	163	<0.1	0.2	<0.1	88	0.44	0.056
1194832	Soil	1.1	32.1	9.6	66	<0.1	17.8	10.6	637	3.51	7.9	0.9	1.0	10.2	28	<0.1	0.4	0.1	68	0.29	0.031
1194833	Soil	0.4	12.0	3.8	135	<0.1	11.5	20.5	1651	5.06	4.9	0.5	1.6	4.6	49	<0.1	0.2	0.1	95	0.44	0.067
1194823	Soil	4.5	143.6	19.3	96	0.1	14.5	11.8	396	2.69	15.4	3.3	2.3	6.0	47	0.2	0.4	0.3	49	0.43	0.048
1194837	Soil	0.6	19.8	8.1	69	<0.1	11.8	13.4	558	4.24	6.9	0.5	1.3	4.0	22	<0.1	0.4	<0.1	105	0.17	0.019
1194835	Soil	1.1	20.5	4.5	68	<0.1	15.4	18.8	873	4.75	6.1	0.7	1.8	6.8	20	<0.1	0.2	<0.1	131	0.23	0.044
1194834	Soil	1.9	111.3	2.9	69	<0.1	11.0	20.2	957	5.30	4.0	1.0	1.1	8.6	27	<0.1	0.2	<0.1	150	0.32	0.045
1194818	Soil	0.2	62.3	4.7	39	<0.1	24.2	16.8	302	2.37	3.9	0.4	3.7	2.1	48	<0.1	0.2	<0.1	64	0.71	0.109
1194838	Soil	1.2	39.2	8.7	125	<0.1	10.1	13.5	717	3.84	4.5	0.6	0.8	4.8	30	<0.1	0.3	<0.1	98	0.25	0.013
1194827	Soil	1.6	61.9	8.7	53	<0.1	18.5	10.8	403	3.12	6.7	1.4	1.1	5.2	37	<0.1	0.4	0.1	77	0.30	0.041
1194828	Soil	2.4	51.1	14.2	58	0.3	13.1	10.0	540	3.04	3.8	0.6	0.6	2.6	45	0.1	0.3	0.3	69	0.35	0.106
1194836	Soil	0.8	30.3	4.3	64	<0.1	9.4	13.6	764	4.45	4.9	1.0	1.6	10.1	31	<0.1	0.2	<0.1	101	0.25	0.052
1194820	Soil	0.6	51.5	10.0	62	0.2	30.6	17.4	440	3.84	6.0	0.6	1.6	3.2	35	0.1	0.3	0.2	97	0.42	0.089

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
			ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
			1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
1196516	Soil		19	65	0.88	254	0.111	<1	1.91	0.009	0.38	<0.1	0.04	5.1	0.2	<0.05	8	<0.5	<0.2
1196510	Soil		15	28	0.70	416	0.112	2	1.74	0.012	0.50	0.1	0.02	5.3	0.1	<0.05	6	<0.5	<0.2
1194841	Soil		8	17	1.62	266	0.265	<1	3.28	0.010	1.26	0.1	0.01	1.6	0.4	<0.05	7	<0.5	<0.2
1194831	Soil		18	20	1.08	213	0.194	<1	2.15	0.014	0.78	0.2	0.01	4.5	0.3	<0.05	8	<0.5	<0.2
1196533	Soil		12	36	0.76	179	0.099	<1	1.96	0.029	0.09	0.1	0.07	7.5	<0.1	<0.05	7	<0.5	<0.2
1196527	Soil		19	39	0.52	241	0.092	4	1.58	0.016	0.10	0.2	0.06	5.8	<0.1	<0.05	5	<0.5	<0.2
1194840	Soil		13	16	1.27	322	0.200	<1	2.44	0.012	0.94	<0.1	0.02	3.2	0.4	<0.05	9	<0.5	<0.2
1194839	Soil		9	26	0.38	135	0.080	<1	1.98	0.008	0.06	0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
1196517	Soil		19	70	1.10	214	0.101	1	2.23	0.011	0.16	0.1	0.02	6.8	0.1	<0.05	8	<0.5	<0.2
1196534	Soil		11	28	0.66	361	0.081	<1	1.95	0.018	0.15	0.1	0.03	8.3	<0.1	<0.05	7	<0.5	<0.2
1194845	Soil		10	24	1.02	191	0.197	<1	2.41	0.009	0.43	0.2	<0.01	1.9	0.2	<0.05	8	<0.5	<0.2
1194813	Soil		6	25	1.58	222	0.284	<1	3.41	0.009	0.94	0.1	0.01	1.7	0.3	<0.05	8	<0.5	<0.2
1194812	Soil		10	28	1.08	285	0.187	<1	2.63	0.010	0.34	0.1	0.01	2.6	0.2	<0.05	7	<0.5	<0.2
1194843	Soil		30	17	1.81	294	0.268	<1	3.28	0.018	1.34	<0.1	0.01	3.5	0.4	<0.05	10	0.6	<0.2
1194806	Soil		12	28	1.17	252	0.229	<1	3.15	0.010	0.54	0.1	0.01	2.3	0.2	<0.05	8	<0.5	<0.2
1194805	Soil		10	14	1.67	220	0.300	<1	3.40	0.012	0.95	0.2	<0.01	3.4	0.3	<0.05	9	<0.5	<0.2
1194844	Soil		10	22	1.80	175	0.290	<1	3.22	0.009	1.07	0.1	<0.01	1.4	0.3	<0.05	8	<0.5	<0.2
1194842	Soil		20	17	1.44	340	0.231	<1	2.53	0.013	1.15	0.2	0.01	2.9	0.3	<0.05	7	<0.5	<0.2
1194832	Soil		17	29	0.87	204	0.146	<1	2.07	0.010	0.48	0.1	0.01	3.8	0.2	<0.05	7	0.7	<0.2
1194833	Soil		8	16	2.99	754	0.318	<1	4.70	0.014	1.51	0.2	0.02	7.9	0.4	<0.05	11	0.5	<0.2
1194823	Soil		28	22	0.45	142	0.078	1	1.50	0.010	0.18	<0.1	0.02	3.9	0.1	<0.05	5	0.7	<0.2
1194837	Soil		5	23	1.28	178	0.213	<1	2.87	0.009	0.98	0.1	0.02	3.6	0.3	<0.05	9	<0.5	<0.2
1194835	Soil		16	22	1.72	240	0.282	<1	3.13	0.010	1.27	0.2	0.01	5.3	0.3	<0.05	9	0.6	<0.2
1194834	Soil		11	18	2.08	277	0.332	<1	3.52	0.010	1.99	0.2	0.01	6.1	0.5	<0.05	10	0.5	<0.2
1194818	Soil		8	41	1.06	135	0.123	<1	1.65	0.048	0.16	<0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
1194838	Soil		14	19	1.34	236	0.246	<1	2.73	0.012	0.65	0.1	<0.01	4.3	0.3	<0.05	8	0.5	<0.2
1194827	Soil		15	24	0.80	148	0.152	<1	1.91	0.012	0.41	0.1	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
1194828	Soil		8	17	0.74	185	0.157	<1	1.69	0.010	0.49	0.1	0.03	2.1	0.2	<0.05	7	0.8	<0.2
1194836	Soil		15	15	1.58	205	0.262	<1	2.98	0.010	1.43	0.2	<0.01	5.6	0.5	<0.05	10	0.6	<0.2
1194820	Soil		11	50	1.02	180	0.144	<1	2.13	0.018	0.38	0.1	0.01	6.8	0.2	<0.05	8	0.6	<0.2



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1194826	Soil	5.9	43.5	10.7	31	0.1	9.1	4.9	127	3.21	5.1	1.7	2.4	11.1	44	<0.1	0.3	0.1	35	0.14	0.040
1194829	Soil	2.3	98.9	6.4	53	0.2	15.9	10.8	445	3.09	5.1	1.0	1.5	7.6	25	<0.1	0.3	0.1	81	0.27	0.022
1194830	Soil	1.0	73.3	11.7	62	0.1	18.3	12.1	504	3.42	7.0	1.4	3.3	14.8	48	<0.1	0.4	0.2	70	0.32	0.046
1194819	Soil	0.6	46.9	7.1	53	<0.1	23.7	14.0	465	2.86	5.5	0.6	2.9	3.5	63	<0.1	0.4	0.1	70	0.49	0.072
1194897	Soil	0.2	59.4	2.8	29	<0.1	74.6	27.8	410	2.78	2.7	0.7	1.4	1.2	34	<0.1	0.2	<0.1	108	0.88	0.039
1194938	Soil	4.3	70.4	16.4	269	0.3	61.1	17.5	707	4.22	25.3	1.4	2.1	7.4	45	0.9	0.3	0.2	105	1.95	0.087
1194824	Soil	1.1	33.5	7.4	58	<0.1	21.2	9.7	329	2.59	8.8	1.2	4.9	6.6	37	<0.1	0.5	0.1	61	0.38	0.050
1194825	Soil	4.9	48.6	8.1	34	0.2	10.6	4.3	189	3.83	4.9	3.6	1.5	10.1	84	<0.1	0.2	0.2	63	0.33	0.044
1194900	Soil	0.3	121.9	6.2	43	<0.1	23.6	17.1	411	3.02	3.6	0.3	<0.5	1.2	57	<0.1	0.2	<0.1	83	1.24	0.316
1194940	Soil	1.4	50.8	85.7	108	0.7	20.1	10.5	456	3.52	8.2	0.8	1.9	3.7	35	0.3	0.5	0.7	64	0.47	0.030
1194821	Soil	1.0	50.6	3.6	285	<0.1	16.3	19.9	1077	5.64	6.8	0.6	<0.5	1.5	44	0.2	0.2	<0.1	94	0.56	0.118
1194822	Soil	0.2	23.2	1.7	40	<0.1	9.6	12.7	262	2.33	2.3	0.1	<0.5	0.8	11	<0.1	<0.1	<0.1	62	0.33	0.021
1194851	Soil	0.1	17.7	8.2	19	<0.1	18.4	10.7	238	1.41	1.8	0.2	1.3	0.7	26	<0.1	0.1	<0.1	61	0.64	0.032
1194939	Soil	4.1	304.4	36.4	400	0.2	38.6	15.5	378	5.12	21.4	2.6	0.9	8.1	65	3.1	0.6	0.1	124	0.45	0.068
1194852	Soil	0.5	15.9	19.9	77	<0.1	13.8	6.7	385	2.26	3.1	0.5	2.2	4.6	65	<0.1	0.2	0.1	52	0.49	0.053
1194898	Soil	0.2	184.6	7.5	48	0.2	24.9	35.5	418	3.73	<0.5	0.2	2.8	0.4	43	<0.1	<0.1	<0.1	134	0.99	0.144
1194849	Soil	<0.1	124.6	0.4	18	0.1	22.7	17.4	218	1.79	<0.5	<0.1	2.1	<0.1	32	<0.1	<0.1	<0.1	83	0.77	0.028
1194850	Soil	<0.1	324.7	0.3	27	0.1	43.6	38.5	289	3.16	0.5	0.1	2.2	0.1	51	<0.1	<0.1	<0.1	142	0.93	0.036
1194811	Soil	0.5	57.6	3.4	57	<0.1	13.2	19.5	917	4.69	3.1	0.5	<0.5	2.0	83	0.1	0.3	0.1	114	1.30	0.225
1194899	Soil	0.3	109.3	4.7	30	0.1	24.7	19.1	233	2.71	4.7	0.3	1.0	2.0	31	<0.1	0.2	<0.1	89	0.69	0.103





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Project: HEN  
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CERTIFICATE OF ANALYSIS

WHI11000212.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1194826	Soil	29	13	0.32	185	0.047	<1	1.08	0.027	0.23	<0.1	<0.01	1.5	0.1	0.27	4	1.5	<0.2
1194829	Soil	11	23	0.84	104	0.148	<1	2.11	0.010	0.30	0.1	0.01	4.1	0.2	<0.05	7	<0.5	<0.2
1194830	Soil	30	25	0.88	162	0.174	<1	2.44	0.011	0.43	0.2	0.01	6.2	0.2	<0.05	8	0.5	<0.2
1194819	Soil	10	39	0.73	277	0.122	<1	2.07	0.019	0.24	0.1	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
1194897	Soil	11	158	3.28	187	0.165	<1	2.43	0.043	0.22	0.1	0.02	11.8	0.1	<0.05	4	0.7	<0.2
1194938	Soil	25	49	0.74	438	0.054	<1	1.54	0.008	0.42	<0.1	0.04	9.3	0.5	<0.05	6	1.6	<0.2
1194824	Soil	14	29	0.47	158	0.096	<1	1.32	0.017	0.14	0.2	0.01	5.0	<0.1	<0.05	5	0.6	<0.2
1194825	Soil	22	22	0.63	226	0.091	<1	1.68	0.032	0.22	<0.1	0.02	4.1	0.2	0.17	6	1.5	<0.2
1194900	Soil	4	75	1.26	130	0.129	<1	1.80	0.060	0.25	0.2	<0.01	6.9	0.1	<0.05	5	<0.5	<0.2
1194940	Soil	10	36	0.49	600	0.091	<1	1.60	0.016	0.15	<0.1	0.03	3.9	0.1	<0.05	6	1.6	0.2
1194821	Soil	5	22	1.22	273	0.316	<1	2.52	0.023	1.43	<0.1	0.01	6.8	0.2	<0.05	10	0.8	<0.2
1194822	Soil	5	59	1.19	224	0.132	<1	1.59	0.025	0.31	<0.1	<0.01	4.3	0.1	<0.05	4	0.6	<0.2
1194851	Soil	4	82	1.26	55	0.079	<1	0.99	0.052	0.07	<0.1	<0.01	8.2	<0.1	<0.05	2	<0.5	<0.2
1194939	Soil	22	54	1.40	337	0.253	<1	2.90	0.026	0.90	<0.1	0.02	7.4	0.5	0.13	9	2.8	<0.2
1194852	Soil	15	20	0.63	196	0.057	<1	1.78	0.011	0.31	<0.1	0.01	3.1	0.2	<0.05	8	0.6	<0.2
1194898	Soil	2	41	2.39	252	0.159	<1	2.47	0.079	0.66	<0.1	<0.01	7.9	0.3	<0.05	6	<0.5	<0.2
1194849	Soil	<1	60	1.74	62	0.096	<1	1.27	0.078	0.17	<0.1	0.02	8.5	<0.1	<0.05	3	0.6	<0.2
1194850	Soil	<1	42	2.25	94	0.146	<1	1.91	0.107	0.30	<0.1	0.01	10.5	<0.1	<0.05	4	<0.5	<0.2
1194811	Soil	9	16	1.03	246	0.134	3	1.81	0.034	0.33	0.2	0.02	7.7	<0.1	<0.05	8	0.8	<0.2
1194899	Soil	5	39	0.92	125	0.107	1	1.47	0.067	0.23	0.1	0.02	5.4	<0.1	<0.05	4	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11000212.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1194756	Soil	1.4	77.2	28.9	53	<0.1	11.6	10.7	494	3.00	6.2	0.8	2.5	5.4	61	0.1	0.3	0.3	73	0.36	0.038
REP 1194756	QC	1.5	78.6	29.1	54	<0.1	10.9	10.3	488	2.86	6.3	0.8	1.8	5.6	60	0.1	0.3	0.3	69	0.34	0.043
1192026	Soil	1.4	18.8	11.1	86	<0.1	15.8	7.3	831	3.50	7.9	0.6	0.9	3.0	34	0.2	0.7	0.1	43	0.60	0.034
REP 1192026	QC	1.4	18.2	10.9	79	<0.1	15.2	7.4	873	3.53	7.8	0.7	<0.5	3.0	34	0.1	0.6	0.1	42	0.64	0.034
1035408	Soil	2.7	27.3	12.5	105	<0.1	28.4	9.5	808	3.42	6.3	0.9	3.6	3.8	37	0.2	0.5	0.2	49	0.59	0.034
REP 1035408	QC	2.5	27.6	12.6	105	0.1	27.5	9.5	811	3.40	6.3	0.9	1.1	3.7	38	0.2	0.5	0.2	50	0.57	0.034
1192166	Soil	0.6	26.6	26.0	104	<0.1	14.2	6.8	386	3.67	5.7	1.0	2.4	4.9	19	<0.1	0.4	0.4	39	0.20	0.024
REP 1192166	QC	0.6	26.3	26.8	105	<0.1	14.2	6.5	383	3.71	5.9	1.0	2.0	4.9	19	<0.1	0.4	0.4	39	0.20	0.023
1192187	Soil	0.9	24.8	13.9	54	<0.1	22.1	9.6	279	2.80	9.1	1.0	4.3	6.6	16	<0.1	0.6	0.2	59	0.15	0.014
REP 1192187	QC	1.2	24.4	14.5	54	<0.1	21.6	9.1	273	2.71	8.8	1.1	2.8	6.6	17	<0.1	0.6	0.2	58	0.15	0.014
1194890	Soil	0.8	16.9	7.3	43	<0.1	10.8	6.1	234	2.41	6.4	0.8	1.4	3.5	26	<0.1	0.2	0.1	63	0.24	0.032
REP 1194890	QC	0.9	16.9	7.3	46	<0.1	10.8	6.1	245	2.41	6.5	0.9	2.2	3.4	26	<0.1	0.2	0.1	66	0.24	0.034
1035487	Soil	1.1	14.5	41.7	47	0.2	12.6	5.6	228	2.16	4.0	0.6	2.3	2.1	19	0.1	0.2	0.4	43	0.25	0.040
REP 1035487	QC	1.1	14.7	41.4	46	0.2	13.2	5.7	224	2.15	4.0	0.6	2.0	2.1	20	<0.1	0.3	0.4	45	0.26	0.042
1035472	Soil	1.6	21.5	29.5	50	0.3	10.1	14.0	1136	2.80	5.9	1.6	2.0	3.7	30	0.2	0.3	0.2	49	0.45	0.038
REP 1035472	QC	1.6	21.7	29.2	51	0.3	10.7	14.4	1166	2.80	5.9	1.7	2.4	3.7	30	0.2	0.3	0.2	50	0.47	0.041
1197718	Soil	1.1	26.0	9.7	104	<0.1	24.1	25.8	721	5.98	17.3	1.2	<0.5	11.6	25	<0.1	0.3	<0.1	145	0.56	0.086
REP 1197718	QC	1.2	24.6	9.8	106	<0.1	22.9	24.7	722	5.95	17.3	1.2	1.2	11.5	25	0.1	0.4	<0.1	140	0.57	0.086
1197790	Soil	1.1	19.0	10.5	93	<0.1	11.4	19.6	823	4.59	3.0	1.0	0.6	5.6	43	0.3	0.3	<0.1	97	0.95	0.071
REP 1197790	QC	1.1	19.2	10.7	90	0.1	10.9	19.1	809	4.49	3.3	1.0	0.8	5.4	43	0.2	0.2	<0.1	93	0.91	0.073
1194914	Soil	1.0	18.4	11.1	53	<0.1	21.2	8.5	267	2.83	9.1	0.7	0.9	3.5	24	<0.1	0.5	0.1	53	0.30	0.042
REP 1194914	QC	1.0	17.7	9.8	49	<0.1	20.8	8.6	270	2.82	9.0	0.7	1.8	3.2	24	<0.1	0.5	0.1	51	0.30	0.037
1194922	Soil	1.5	15.8	10.0	54	<0.1	19.2	8.8	407	3.19	7.6	0.4	1.2	2.8	11	<0.1	0.4	0.1	51	0.18	0.053
REP 1194922	QC	1.3	16.3	10.0	54	<0.1	19.0	9.1	420	3.25	7.8	0.4	3.2	3.0	11	0.1	0.4	0.1	52	0.18	0.050
1194913	Soil	1.9	21.8	16.3	68	<0.1	23.9	8.8	552	3.48	8.0	0.7	2.8	4.4	21	<0.1	0.5	0.1	44	0.29	0.042
REP 1194913	QC	2.0	21.8	18.2	69	<0.1	26.6	8.8	557	3.54	8.2	0.7	3.0	4.3	22	<0.1	0.5	0.1	44	0.29	0.045
1198199	Soil	1.9	11.2	11.5	29	<0.1	10.9	3.6	155	1.29	2.8	0.7	1.4	1.3	12	0.1	0.2	0.1	33	0.16	0.034
REP 1198199	QC	2.1	10.8	11.0	29	<0.1	10.1	3.6	150	1.28	2.7	0.6	<0.5	1.3	13	<0.1	0.2	<0.1	33	0.17	0.034

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QUALITY CONTROL REPORT

WHI11000212.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1194756	Soil	14	24	0.84	150	0.158	1	2.17	0.015	0.32	0.1	0.02	2.8	0.2	<0.05	8	0.6	<0.2
REP 1194756	QC	14	24	0.85	159	0.142	2	2.14	0.014	0.32	0.1	0.01	2.7	0.2	<0.05	7	0.7	<0.2
1192026	Soil	16	30	0.40	994	0.019	2	1.76	0.013	0.23	0.1	0.03	7.2	<0.1	<0.05	6	0.7	<0.2
REP 1192026	QC	16	28	0.41	1021	0.019	4	1.84	0.013	0.24	0.1	0.02	7.2	<0.1	<0.05	6	<0.5	<0.2
1035408	Soil	24	38	0.61	580	0.069	6	1.56	0.011	0.27	0.2	0.04	7.3	<0.1	<0.05	6	0.8	<0.2
REP 1035408	QC	25	37	0.61	583	0.072	4	1.55	0.012	0.27	0.2	0.04	7.6	<0.1	<0.05	6	<0.5	<0.2
1192166	Soil	21	24	0.45	471	0.054	<1	1.68	0.009	0.12	<0.1	0.03	7.1	<0.1	<0.05	8	<0.5	<0.2
REP 1192166	QC	21	24	0.44	483	0.054	<1	1.68	0.009	0.12	<0.1	0.03	7.3	<0.1	<0.05	8	0.5	<0.2
1192187	Soil	16	38	0.50	258	0.072	1	2.05	0.010	0.08	0.1	0.02	3.9	0.1	<0.05	6	0.7	<0.2
REP 1192187	QC	16	37	0.49	252	0.069	1	2.03	0.010	0.08	0.1	0.02	4.0	0.1	<0.05	6	<0.5	<0.2
1194890	Soil	12	21	0.55	136	0.091	1	1.55	0.010	0.07	0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
REP 1194890	QC	12	22	0.57	135	0.092	1	1.56	0.010	0.08	0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
1035487	Soil	9	24	0.33	454	0.047	2	1.46	0.010	0.06	0.1	0.04	3.2	<0.1	<0.05	6	<0.5	<0.2
REP 1035487	QC	10	23	0.33	466	0.050	2	1.54	0.010	0.05	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
1035472	Soil	26	23	0.26	531	0.043	2	1.39	0.012	0.07	0.1	0.03	4.3	<0.1	<0.05	6	0.7	<0.2
REP 1035472	QC	27	24	0.27	525	0.044	2	1.44	0.013	0.07	0.1	0.03	4.3	<0.1	<0.05	6	0.5	<0.2
1197718	Soil	20	33	1.89	269	0.264	2	2.79	0.020	1.11	0.3	0.01	6.1	0.2	<0.05	12	0.5	<0.2
REP 1197718	QC	20	31	1.84	269	0.261	<1	2.76	0.019	1.04	0.4	0.02	6.1	0.2	<0.05	12	<0.5	<0.2
1197790	Soil	15	18	1.59	343	0.196	2	2.45	0.015	1.04	<0.1	0.04	2.4	0.2	<0.05	7	<0.5	<0.2
REP 1197790	QC	14	17	1.60	332	0.191	1	2.46	0.015	1.01	<0.1	0.05	2.4	0.2	<0.05	7	<0.5	<0.2
1194914	Soil	15	32	0.40	374	0.048	<1	1.74	0.009	0.06	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
REP 1194914	QC	14	30	0.40	379	0.044	2	1.69	0.011	0.06	0.2	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
1194922	Soil	7	29	0.43	190	0.094	<1	1.66	0.007	0.27	0.2	0.01	3.3	0.1	<0.05	6	<0.5	<0.2
REP 1194922	QC	7	30	0.45	192	0.094	2	1.63	0.007	0.27	0.2	<0.01	3.4	<0.1	<0.05	6	0.7	<0.2
1194913	Soil	15	38	0.35	641	0.038	2	1.64	0.011	0.10	<0.1	0.03	7.9	<0.1	<0.05	6	<0.5	<0.2
REP 1194913	QC	16	42	0.35	658	0.040	3	1.68	0.011	0.10	<0.1	0.03	7.5	<0.1	<0.05	6	<0.5	<0.2
1198199	Soil	13	19	0.22	117	0.072	<1	0.83	0.009	0.08	0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
REP 1198199	QC	13	20	0.23	117	0.057	<1	0.82	0.009	0.07	0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2

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QUALITY CONTROL REPORT

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		1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1198195	Soil	1.0	15.3	7.9	54	<0.1	14.5	9.0	359	2.22	7.5	0.7	<0.5	3.8	23	0.2	0.4	<0.1	47	0.40	0.065
REP 1198195	QC	1.1	15.5	7.9	55	<0.1	14.8	9.3	360	2.24	7.5	0.7	3.7	3.5	24	0.2	0.4	<0.1	48	0.41	0.066
1196526	Soil	0.7	39.3	6.9	42	<0.1	22.1	12.0	320	2.59	11.5	0.6	3.4	3.1	21	<0.1	0.6	0.2	67	0.57	0.072
REP 1196526	QC	0.8	38.8	6.7	39	<0.1	22.7	12.4	320	2.70	12.0	0.6	3.2	2.9	22	<0.1	0.6	0.1	70	0.60	0.078
1196522	Soil	0.6	45.3	13.0	73	<0.1	29.9	10.6	466	3.11	12.5	0.5	3.8	4.2	30	<0.1	0.9	0.1	66	0.51	0.051
REP 1196522	QC	0.6	45.2	13.2	71	<0.1	29.1	10.0	486	3.09	12.6	0.6	5.3	4.6	29	<0.1	0.8	0.1	67	0.48	0.050
1194812	Soil	0.7	17.9	8.0	72	<0.1	19.8	14.3	479	3.49	8.1	0.5	2.6	5.1	21	<0.1	0.4	0.1	85	0.20	0.022
REP 1194812	QC	0.7	18.0	7.7	73	<0.1	19.9	14.6	479	3.51	8.1	0.5	3.0	4.9	20	<0.1	0.4	<0.1	85	0.19	0.023
1194824	Soil	1.1	33.5	7.4	58	<0.1	21.2	9.7	329	2.59	8.8	1.2	4.9	6.6	37	<0.1	0.5	0.1	61	0.38	0.050
REP 1194824	QC	1.1	34.3	7.8	60	<0.1	21.0	9.8	330	2.63	8.7	1.2	6.5	6.5	38	<0.1	0.4	0.1	62	0.38	0.052
1194899	Soil	0.3	109.3	4.7	30	0.1	24.7	19.1	233	2.71	4.7	0.3	1.0	2.0	31	<0.1	0.2	<0.1	89	0.69	0.103
REP 1194899	QC	0.4	114.2	5.1	32	0.1	25.5	19.3	240	2.86	4.2	0.3	4.0	2.0	32	<0.1	0.2	<0.1	91	0.68	0.103
Reference Materials																					
STD DS8	Standard	13.8	104.9	131.9	328	1.8	36.2	7.2	627	2.55	27.7	2.7	128.4	6.5	73	2.3	6.3	7.1	40	0.68	0.083
STD DS8	Standard	14.3	118.5	129.9	357	1.9	42.6	8.0	694	2.83	30.6	2.9	128.8	7.1	80	2.3	6.8	7.5	45	0.78	0.092
STD DS8	Standard	12.7	113.2	129.0	312	1.8	37.3	7.6	607	2.46	26.2	2.7	126.6	6.6	58	2.3	5.3	6.7	41	0.65	0.078
STD DS8	Standard	13.5	115.6	131.9	320	1.9	38.5	7.9	638	2.54	27.2	2.8	115.5	6.6	61	2.2	5.5	7.0	43	0.70	0.082
STD DS8	Standard	12.0	109.0	121.7	307	1.7	38.4	7.5	588	2.33	26.4	2.6	90.2	6.0	63	2.3	5.3	6.4	42	0.68	0.078
STD DS8	Standard	13.0	111.5	120.5	311	1.7	37.6	7.3	616	2.43	26.2	2.6	106.6	5.9	59	2.2	5.4	6.1	41	0.69	0.077
STD DS8	Standard	14.2	116.2	128.1	328	1.8	40.5	8.2	682	2.69	29.1	2.6	119.0	6.8	66	2.5	5.7	6.5	44	0.76	0.085
STD DS8	Standard	14.3	118.9	129.3	338	1.9	43.1	8.1	675	2.67	29.9	2.7	128.2	6.5	72	2.3	6.1	6.5	44	0.75	0.087
STD DS8	Standard	13.6	118.8	120.4	327	1.7	41.5	7.5	628	2.44	27.8	2.6	111.8	6.9	71	2.6	5.9	6.6	42	0.73	0.075
STD DS8	Standard	13.3	115.4	124.5	320	1.7	39.7	8.0	617	2.44	27.8	2.7	109.2	7.1	71	2.5	5.6	6.8	42	0.72	0.080
STD DS8	Standard	13.1	111.7	127.2	325	1.8	38.3	7.6	632	2.53	26.3	2.8	118.6	7.3	68	2.0	5.8	6.8	41	0.72	0.078
STD DS8	Standard	13.5	111.9	125.2	319	1.8	37.3	7.6	626	2.49	26.1	2.9	110.0	7.1	68	2.4	5.7	6.8	42	0.69	0.078
STD DS8	Standard	13.2	109.7	127.0	318	1.8	37.6	7.4	635	2.41	25.6	2.8	118.3	7.2	68	2.2	6.0	6.8	45	0.67	0.074
STD DS8	Standard	14.3	114.3	133.8	319	1.7	38.2	7.7	635	2.59	26.5	2.9	115.5	7.4	73	2.3	6.5	7.0	46	0.71	0.080
STD DS8	Standard	14.4	122.1	125.2	331	1.8	42.0	8.4	644	2.61	27.7	2.5	106.4	6.6	62	2.5	5.7	7.0	48	0.75	0.085
STD DS8	Standard	14.6	120.2	121.7	328	1.9	42.5	8.4	666	2.64	28.1	2.5	117.3	6.5	66	2.3	5.7	6.9	47	0.78	0.081



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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000212.2

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
1198195	Soil	14	23	0.40	215	0.058	<1	1.23	0.013	0.07	0.3	0.05	3.1	<0.1	<0.05	4	0.6	<0.2
REP 1198195	QC	14	23	0.40	208	0.061	<1	1.21	0.013	0.07	0.3	0.07	3.1	<0.1	<0.05	4	0.7	<0.2
1196526	Soil	10	26	0.52	127	0.062	1	1.16	0.028	0.05	0.1	0.03	4.5	<0.1	0.10	4	<0.5	<0.2
REP 1196526	QC	10	25	0.55	132	0.070	1	1.19	0.028	0.05	0.2	0.03	4.7	<0.1	0.09	4	<0.5	<0.2
1196522	Soil	17	31	0.58	230	0.074	1	1.54	0.018	0.09	0.2	0.07	6.6	<0.1	<0.05	6	<0.5	<0.2
REP 1196522	QC	18	31	0.58	225	0.074	1	1.53	0.018	0.09	0.2	0.07	6.4	<0.1	<0.05	6	<0.5	<0.2
1194812	Soil	10	28	1.08	285	0.187	<1	2.63	0.010	0.34	0.1	0.01	2.6	0.2	<0.05	7	<0.5	<0.2
REP 1194812	QC	10	28	1.07	287	0.179	1	2.60	0.010	0.34	0.2	0.02	2.5	0.2	<0.05	7	<0.5	<0.2
1194824	Soil	14	29	0.47	158	0.096	<1	1.32	0.017	0.14	0.2	0.01	5.0	<0.1	<0.05	5	0.6	<0.2
REP 1194824	QC	15	29	0.48	161	0.095	<1	1.34	0.017	0.13	0.2	0.02	4.9	<0.1	<0.05	5	0.5	<0.2
1194899	Soil	5	39	0.92	125	0.107	1	1.47	0.067	0.23	0.1	0.02	5.4	<0.1	<0.05	4	<0.5	<0.2
REP 1194899	QC	4	43	0.92	123	0.107	<1	1.47	0.071	0.22	0.1	0.02	5.5	<0.1	<0.05	4	0.6	<0.2
Reference Materials																		
STD DS8	Standard	13	113	0.68	286	0.104	3	0.89	0.096	0.41	3.0	0.19	2.0	5.6	0.25	5	6.6	5.1
STD DS8	Standard	15	133	0.67	312	0.122	3	1.03	0.108	0.45	3.1	0.19	2.1	5.8	0.24	5	6.8	5.9
STD DS8	Standard	12	117	0.60	257	0.104	3	0.87	0.078	0.39	3.0	0.19	2.0	5.6	0.15	5	5.1	5.6
STD DS8	Standard	13	121	0.62	275	0.112	3	0.90	0.087	0.40	3.0	0.21	2.2	5.8	0.17	5	5.9	5.6
STD DS8	Standard	12	109	0.55	264	0.109	2	0.83	0.091	0.42	3.2	0.19	2.3	5.7	0.14	5	5.3	5.3
STD DS8	Standard	14	112	0.59	260	0.109	2	0.91	0.094	0.42	3.0	0.19	2.5	5.6	0.10	5	5.1	5.0
STD DS8	Standard	15	120	0.65	284	0.114	3	0.98	0.100	0.45	3.2	0.19	2.2	6.2	0.15	5	6.1	5.6
STD DS8	Standard	16	117	0.67	305	0.109	3	0.96	0.100	0.46	3.6	0.22	2.1	6.2	0.13	6	6.2	6.3
STD DS8	Standard	15	115	0.61	295	0.119	3	0.93	0.109	0.42	3.2	0.20	2.3	5.9	0.13	5	5.2	5.5
STD DS8	Standard	15	118	0.61	283	0.123	2	0.95	0.109	0.45	3.2	0.19	2.6	6.1	0.12	5	5.2	5.5
STD DS8	Standard	15	118	0.63	289	0.115	3	0.95	0.102	0.45	3.1	0.20	2.6	5.6	0.17	5	4.7	5.3
STD DS8	Standard	15	117	0.62	286	0.114	3	0.95	0.092	0.44	3.2	0.20	2.7	5.7	0.16	5	5.4	4.9
STD DS8	Standard	14	108	0.62	285	0.107	3	0.87	0.093	0.42	3.0	0.21	2.2	5.9	0.11	5	5.5	5.2
STD DS8	Standard	17	116	0.64	313	0.121	3	0.97	0.104	0.43	3.2	0.21	2.3	5.8	0.07	5	6.7	5.1
STD DS8	Standard	15	131	0.65	297	0.126	2	1.00	0.101	0.43	3.1	0.21	2.5	5.8	0.16	5	6.6	5.5
STD DS8	Standard	14	132	0.64	299	0.128	3	0.99	0.101	0.44	3.0	0.22	2.3	5.6	0.14	5	6.2	5.6

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000212.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8	Standard	14.0	113.6	129.4	339	1.9	39.6	7.6	646	2.50	28.5	2.9	119.2	6.9	71	2.6	6.2	7.2	43	0.71	0.084
STD DS8	Standard	13.7	111.3	128.1	330	1.9	38.8	7.5	636	2.51	28.0	3.0	120.4	7.1	71	2.7	6.1	7.3	42	0.70	0.080
STD DS8	Standard	14.4	123.1	127.8	323	1.9	41.8	8.3	639	2.55	27.8	2.9	115.7	7.0	67	2.4	5.6	6.9	45	0.67	0.082
STD DS8	Standard	14.4	122.0	129.5	331	1.9	41.9	8.2	644	2.54	27.3	3.1	108.7	7.2	70	2.3	5.6	7.0	44	0.68	0.083
STD DS8	Standard	14.2	120.1	131.0	325	1.9	42.1	8.3	632	2.50	27.0	3.2	115.0	7.5	71	2.2	5.9	6.9	45	0.70	0.081
STD DS8	Standard	13.8	116.6	125.6	321	1.8	41.4	8.1	608	2.44	26.2	3.0	118.4	7.3	69	2.4	5.8	6.9	45	0.69	0.078
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	1.9	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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**Project:** HEN  
**Report Date:** July 19, 2011

**Page:** 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI11000212.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	14	118	0.66	288	0.118	3	0.92	0.087	0.44	3.2	0.21	2.1	5.6	0.18	5	5.6	5.3
STD DS8	Standard	15	116	0.63	295	0.119	1	0.91	0.085	0.44	3.2	0.24	2.1	5.7	0.15	4	4.9	4.9
STD DS8	Standard	15	126	0.63	284	0.129	3	0.93	0.081	0.42	3.0	0.22	2.1	5.6	0.15	5	5.6	5.6
STD DS8	Standard	15	126	0.63	294	0.130	2	0.93	0.084	0.42	2.9	0.21	2.2	5.7	0.15	5	5.4	5.2
STD DS8	Standard	16	124	0.64	292	0.131	2	0.95	0.089	0.43	2.9	0.22	2.1	5.7	0.16	5	5.7	5.2
STD DS8	Standard	16	122	0.62	289	0.133	1	0.92	0.087	0.42	3.2	0.21	2.0	5.4	0.15	5	6.1	5.1
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 06, 2011
Report Date: July 19, 2011
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI11000213.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID: HEN2011-03
P.O. Number
Number of Samples: 109

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

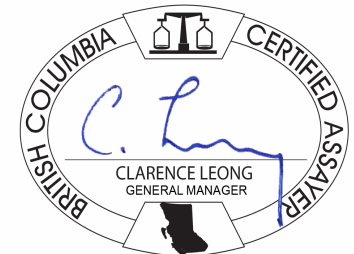
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000213.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1193528	Soil		1.0	14.6	11.0	43	0.1	19.2	8.2	244	2.45	7.9	0.6	1.7	4.1	14	<0.1	0.5	0.2	62	0.15	0.014
1193544	Soil		1.1	13.4	9.9	40	<0.1	17.5	6.3	165	2.41	5.9	0.4	1.1	2.5	17	<0.1	0.5	0.1	53	0.19	0.014
1193531	Soil		0.9	19.0	10.7	43	<0.1	20.7	8.9	218	2.68	9.0	0.8	1.4	4.2	17	<0.1	0.5	0.2	67	0.19	0.015
1193520	Soil		0.6	25.0	7.8	59	<0.1	13.5	12.2	390	4.21	5.4	0.5	1.4	3.7	21	<0.1	0.6	<0.1	49	0.25	0.022
1193518	Soil		0.9	23.7	9.5	48	<0.1	18.3	7.4	302	2.44	7.6	1.0	1.7	4.5	16	<0.1	0.6	0.1	50	0.15	0.012
1193514	Soil		1.5	17.8	11.7	49	<0.1	23.0	8.2	268	2.69	9.4	0.6	1.3	4.3	14	<0.1	0.7	0.2	64	0.16	0.017
1193516	Soil		1.5	20.5	13.4	63	<0.1	27.2	11.9	492	3.31	8.4	0.7	0.8	4.1	33	<0.1	0.6	0.1	75	0.46	0.036
1193547	Soil		1.0	10.2	8.9	32	<0.1	13.5	5.5	175	2.04	6.1	0.3	0.8	2.9	14	<0.1	0.4	0.2	57	0.17	0.019
1193535	Soil		1.3	21.2	14.0	50	<0.1	24.5	7.6	218	3.06	5.9	0.9	2.0	4.3	32	<0.1	0.8	0.1	56	0.36	0.014
1193517	Soil		1.4	16.6	11.0	48	<0.1	25.0	8.9	351	2.53	8.1	0.5	0.7	3.5	23	<0.1	0.6	0.2	63	0.26	0.017
1193523	Soil		1.6	22.5	11.4	70	<0.1	27.0	9.2	399	3.35	9.2	0.7	0.8	5.7	17	<0.1	0.6	0.2	55	0.19	0.023
1193530	Soil		1.1	11.4	10.4	33	<0.1	11.2	4.9	252	2.15	3.9	0.5	9.5	2.7	16	<0.1	0.3	0.1	39	0.22	0.044
1193513	Soil		1.1	23.4	12.8	61	<0.1	30.6	8.9	268	2.63	9.1	0.7	1.7	5.1	25	<0.1	0.7	0.2	60	0.28	0.035
1193522	Soil		1.2	20.7	11.0	50	<0.1	22.1	10.4	524	2.77	9.5	0.5	1.7	4.0	17	<0.1	0.6	0.2	67	0.19	0.019
1193533	Soil		1.1	16.6	16.1	42	<0.1	19.5	6.4	215	2.20	5.7	0.6	0.8	2.6	18	<0.1	0.5	0.2	46	0.22	0.030
1193548	Soil		1.1	15.3	10.9	38	<0.1	14.4	5.7	288	2.13	4.7	0.7	1.7	2.9	21	<0.1	0.4	0.1	43	0.27	0.041
1193543	Soil		1.2	21.1	39.6	79	<0.1	29.0	9.9	435	2.90	9.2	0.7	1.1	5.3	18	<0.1	0.6	0.6	66	0.18	0.028
1193541	Soil		1.1	15.1	10.9	57	<0.1	21.5	8.9	299	2.51	7.9	0.5	0.7	3.9	18	<0.1	0.5	0.2	65	0.21	0.036
1193539	Soil		1.3	19.3	13.6	54	<0.1	24.6	8.7	311	2.92	9.2	0.7	2.0	4.8	17	<0.1	0.6	0.2	58	0.19	0.017
1193508	Soil		1.2	18.6	13.1	70	0.1	25.4	10.4	611	2.73	6.6	0.6	1.8	4.0	27	<0.1	0.5	0.2	53	0.34	0.051
1193510	Soil		1.5	21.6	14.4	50	<0.1	28.2	9.4	294	2.83	9.9	0.6	0.7	5.1	18	<0.1	0.7	0.2	63	0.17	0.016
1193529	Soil		0.9	24.8	10.0	78	<0.1	21.2	10.2	313	3.58	5.5	1.0	1.7	4.8	24	<0.1	0.6	0.1	51	0.26	0.014
1193512	Soil		1.1	26.5	14.0	85	<0.1	24.5	8.5	393	3.69	7.7	0.8	1.9	4.6	28	<0.1	0.5	0.1	46	0.35	0.039
1194568	Soil		1.0	23.8	8.2	75	0.2	18.4	13.2	677	3.11	5.8	0.3	1.4	2.1	43	<0.1	0.3	0.1	78	0.42	0.061
1194570	Soil		1.2	36.1	9.8	45	<0.1	30.7	12.0	351	2.48	6.9	0.6	2.1	3.9	46	<0.1	0.4	0.1	65	0.46	0.026
1194620	Soil		1.2	47.6	8.6	51	<0.1	31.7	11.9	308	2.84	7.7	0.8	5.5	4.6	36	<0.1	0.5	0.1	74	0.49	0.045
1194785	Soil		2.9	32.0	15.2	192	0.2	22.6	7.8	1109	5.12	8.5	2.3	1.4	3.5	45	0.2	0.3	0.1	63	0.60	0.044
1194605	Soil		0.5	117.1	4.7	50	<0.1	23.6	21.7	441	3.31	4.2	0.6	1.5	2.4	49	<0.1	0.3	<0.1	92	1.11	0.253
1194569	Soil		0.7	47.3	5.8	42	<0.1	30.0	15.4	295	2.91	4.9	0.3	<0.5	3.0	50	<0.1	0.2	<0.1	80	0.46	0.031
1194602	Soil		1.5	63.2	12.5	51	<0.1	24.2	14.5	328	3.16	4.3	0.8	2.4	3.3	35	<0.1	0.2	0.3	79	0.84	0.127

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1193528	Soil	10	33	0.44	235	0.060	<1	1.82	0.008	0.03	0.2	0.01	2.4	0.1	<0.05	5	<0.5	<0.2
1193544	Soil	8	29	0.39	167	0.057	<1	1.70	0.010	0.04	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
1193531	Soil	13	35	0.45	306	0.067	<1	1.94	0.011	0.03	0.2	0.01	3.2	<0.1	<0.05	6	0.6	<0.2
1193520	Soil	19	19	0.72	802	0.039	1	2.16	0.011	0.13	<0.1	<0.01	5.7	0.1	<0.05	7	<0.5	<0.2
1193518	Soil	17	32	0.42	415	0.054	2	1.55	0.011	0.06	0.2	<0.01	4.8	<0.1	<0.05	4	<0.5	<0.2
1193514	Soil	10	42	0.46	237	0.061	<1	2.06	0.008	0.05	0.2	0.01	3.1	0.1	<0.05	6	<0.5	<0.2
1193516	Soil	11	39	0.62	404	0.111	2	1.94	0.022	0.10	0.1	0.01	5.5	<0.1	<0.05	6	0.6	<0.2
1193547	Soil	9	24	0.29	185	0.062	<1	1.32	0.008	0.04	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
1193535	Soil	18	39	0.55	342	0.031	<1	2.04	0.012	0.05	<0.1	0.02	6.7	<0.1	<0.05	7	<0.5	<0.2
1193517	Soil	10	39	0.46	324	0.054	<1	1.99	0.009	0.05	0.2	0.01	2.7	0.1	<0.05	6	<0.5	<0.2
1193523	Soil	11	43	0.47	336	0.064	1	2.05	0.012	0.08	0.2	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
1193530	Soil	11	20	0.32	291	0.043	<1	1.29	0.009	0.10	0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
1193513	Soil	16	45	0.48	339	0.071	<1	1.62	0.013	0.09	0.2	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1193522	Soil	10	37	0.48	278	0.062	<1	1.91	0.012	0.05	0.1	0.02	2.9	<0.1	<0.05	6	0.7	<0.2
1193533	Soil	12	30	0.36	231	0.055	<1	1.52	0.011	0.06	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1193548	Soil	13	27	0.34	276	0.045	<1	1.46	0.012	0.08	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
1193543	Soil	13	44	0.53	332	0.077	1	2.01	0.010	0.07	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
1193541	Soil	11	36	0.46	275	0.062	<1	1.79	0.008	0.04	0.2	0.01	2.7	0.1	<0.05	5	<0.5	<0.2
1193539	Soil	12	41	0.51	219	0.076	1	2.03	0.009	0.09	<0.1	0.01	3.5	<0.1	<0.05	6	0.5	<0.2
1193508	Soil	12	37	0.44	379	0.073	<1	1.61	0.012	0.17	0.2	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
1193510	Soil	11	46	0.48	269	0.065	<1	2.06	0.012	0.06	0.1	0.02	3.2	0.1	<0.05	5	0.5	<0.2
1193529	Soil	21	31	0.57	298	0.032	<1	2.19	0.012	0.04	<0.1	0.03	6.8	<0.1	<0.05	9	<0.5	<0.2
1193512	Soil	20	33	0.45	331	0.041	<1	1.68	0.012	0.17	<0.1	0.02	9.5	<0.1	<0.05	7	0.5	<0.2
1194568	Soil	7	28	0.66	233	0.087	<1	1.90	0.023	0.13	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
1194570	Soil	14	44	0.69	214	0.092	<1	1.71	0.025	0.06	0.1	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
1194620	Soil	14	45	0.74	214	0.108	1	1.69	0.030	0.06	0.1	0.03	5.7	<0.1	<0.05	5	<0.5	<0.2
1194785	Soil	14	33	0.67	184	0.088	<1	2.53	0.012	0.42	<0.1	0.02	14.1	0.2	<0.05	12	<0.5	<0.2
1194605	Soil	9	48	1.26	250	0.149	<1	2.06	0.031	0.28	<0.1	0.02	6.1	0.1	<0.05	6	<0.5	<0.2
1194569	Soil	12	55	1.07	150	0.123	<1	2.29	0.020	0.11	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
1194602	Soil	13	32	0.97	153	0.129	<1	1.95	0.045	0.14	0.1	<0.01	6.6	<0.1	<0.05	7	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1194786	Soil		1.5	26.3	7.9	96	0.1	25.5	13.1	914	4.57	10.1	0.8	1.1	3.2	52	0.2	0.5	0.1	108	0.72	0.116
1194621	Soil		4.1	45.9	12.0	98	0.2	20.5	12.5	955	4.64	8.7	1.5	2.1	5.6	51	<0.1	0.2	0.1	80	0.64	0.079
1194610	Soil		0.9	111.7	7.1	50	<0.1	25.9	22.0	381	3.75	6.1	0.4	0.8	4.4	29	<0.1	0.3	<0.1	86	0.48	0.049
1194609	Soil		0.6	51.5	3.7	69	<0.1	10.1	20.3	728	4.70	3.6	0.7	<0.5	3.1	56	<0.1	0.2	<0.1	124	0.89	0.202
1194784	Soil		2.6	15.1	7.2	214	0.1	11.2	6.2	833	6.31	4.4	0.7	<0.5	2.5	49	0.3	0.1	<0.1	25	0.37	0.052
1194626	Soil		1.4	24.7	8.0	201	0.2	15.0	11.3	1440	5.70	3.1	0.4	<0.5	2.1	57	0.4	0.2	<0.1	52	0.72	0.141
1194608	Soil		0.7	46.9	6.8	52	0.2	15.0	10.8	559	2.69	3.6	0.3	0.8	1.7	56	<0.1	0.4	0.1	69	0.55	0.049
1194783	Soil		1.4	64.5	5.8	66	<0.1	14.4	16.1	752	6.81	24.5	1.0	2.5	4.6	60	<0.1	0.5	<0.1	104	0.97	0.243
1194622	Soil		1.3	26.3	11.2	78	0.2	24.4	9.9	569	2.96	9.9	0.6	2.1	4.5	48	0.2	0.6	0.1	54	0.63	0.046
1194614	Soil		1.6	23.3	10.5	65	0.2	21.5	11.0	900	3.30	5.1	0.4	2.1	3.7	43	0.1	0.4	0.1	57	0.55	0.065
1194607	Soil		4.8	20.2	15.8	68	<0.1	27.6	8.7	397	3.06	7.9	2.5	6.7	5.8	37	<0.1	0.6	0.3	47	0.39	0.026
1194619	Soil		0.7	36.9	8.4	50	<0.1	15.2	13.0	385	2.99	3.6	0.4	<0.5	2.9	51	<0.1	0.3	0.2	75	0.57	0.066
1194603	Soil		0.8	15.9	11.9	86	<0.1	15.4	12.0	818	3.89	4.9	1.7	1.3	15.8	43	<0.1	0.3	0.1	67	0.50	0.083
1194611	Soil		2.2	15.9	18.9	86	0.1	22.1	10.1	1970	2.75	5.4	0.5	2.0	1.9	75	0.3	0.5	0.2	56	0.26	0.045
1194615	Soil		1.6	13.3	9.2	70	<0.1	17.9	6.6	471	2.88	6.9	0.5	<0.5	3.2	19	<0.1	0.5	0.1	48	0.15	0.026
1194601	Soil		1.1	25.8	7.8	39	<0.1	23.6	9.5	357	2.22	5.7	0.4	<0.5	2.9	59	<0.1	0.4	0.1	56	0.46	0.025
1194604	Soil		0.9	23.6	10.4	83	<0.1	14.4	11.1	684	3.51	5.4	1.7	2.2	16.6	57	<0.1	0.3	<0.1	66	0.55	0.090
1194612	Soil		1.4	20.1	11.7	69	0.2	19.4	9.8	864	2.78	5.1	0.4	2.4	3.3	41	<0.1	0.4	0.1	53	0.58	0.053
1196130	Soil		4.7	63.6	12.2	149	<0.1	56.4	19.3	844	4.31	121.4	1.6	3.2	7.5	23	0.4	0.6	0.1	133	0.47	0.111
1194606	Soil		1.3	23.9	10.5	54	0.1	28.8	10.6	453	2.97	11.1	0.9	3.9	5.1	39	<0.1	0.7	0.2	61	0.45	0.035
1194624	Soil		1.5	38.4	9.7	114	0.3	13.8	14.3	877	4.30	6.8	0.7	<0.5	4.1	79	0.2	0.3	0.1	107	0.53	0.074
1194613	Soil		1.4	19.6	10.8	85	<0.1	14.8	7.2	508	2.80	4.6	1.1	<0.5	6.4	28	<0.1	0.4	0.2	37	0.32	0.032
1197748	Soil		1.6	38.2	3.7	66	<0.1	11.9	21.3	808	4.95	3.3	1.1	1.9	4.5	59	<0.1	0.4	<0.1	150	0.72	0.063
1194567	Soil		0.7	15.2	9.7	60	<0.1	18.8	8.3	191	2.67	8.6	0.6	1.8	2.5	32	<0.1	0.4	0.2	59	0.24	0.050
1194625	Soil		1.9	12.9	14.3	129	0.1	15.1	9.5	782	3.09	3.2	1.1	1.2	6.5	34	0.2	0.4	0.2	43	0.37	0.074
1194618	Soil		2.5	15.7	9.7	71	0.1	18.4	8.9	639	2.79	4.3	0.6	1.4	3.0	29	0.2	0.3	0.1	40	0.29	0.040
1198384	Soil		1.2	36.3	17.6	121	0.2	26.4	18.1	807	4.42	13.6	0.8	1.1	1.8	30	0.4	0.3	0.2	83	1.18	0.134
1196129	Soil		4.9	45.7	9.5	141	0.1	36.9	9.6	301	3.31	77.4	1.3	1.4	4.1	37	0.5	0.7	0.2	129	0.52	0.144
1197745	Soil		1.0	25.1	6.4	104	<0.1	11.3	21.8	697	5.50	4.8	1.3	<0.5	3.3	44	<0.1	0.4	<0.1	133	0.66	0.039
1197747	Soil		0.9	33.1	3.8	79	<0.1	10.2	22.4	824	5.13	2.7	0.4	<0.5	3.6	56	<0.1	0.3	<0.1	138	0.64	0.064

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 Vancouver BC V6C 1H2 Canada

Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000213.2

Method Analyte	1DX15																	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1194786	Soil	9	33	0.91	275	0.155	<1	2.66	0.020	0.39	<0.1	0.01	8.5	0.1	<0.05	10	<0.5	<0.2
1194621	Soil	15	31	0.97	202	0.160	<1	2.21	0.015	0.67	<0.1	0.02	10.9	0.2	<0.05	11	0.9	<0.2
1194610	Soil	8	31	0.82	204	0.161	<1	2.72	0.031	0.13	0.1	<0.01	4.3	0.1	<0.05	8	0.6	<0.2
1194609	Soil	11	16	1.46	181	0.154	<1	2.89	0.019	0.60	<0.1	0.01	5.8	0.1	<0.05	11	<0.5	<0.2
1194784	Soil	7	18	0.75	323	0.272	<1	3.41	0.013	1.40	0.1	0.01	8.7	0.4	<0.05	16	<0.5	<0.2
1194626	Soil	6	29	1.18	413	0.251	<1	3.15	0.023	1.11	<0.1	<0.01	7.7	0.3	0.18	12	<0.5	<0.2
1194608	Soil	6	20	0.62	258	0.088	<1	1.66	0.028	0.20	0.1	0.01	3.5	<0.1	0.13	5	<0.5	<0.2
1194783	Soil	25	16	1.13	317	0.069	<1	3.05	0.017	0.42	<0.1	0.05	12.3	0.2	0.09	16	1.3	<0.2
1194622	Soil	15	31	0.57	300	0.102	2	1.69	0.018	0.26	0.2	<0.01	6.1	<0.1	0.10	6	0.7	<0.2
1194614	Soil	10	32	0.64	534	0.126	2	2.02	0.020	0.41	0.1	0.02	5.1	0.1	0.06	6	0.7	<0.2
1194607	Soil	15	42	0.61	191	0.083	1	1.82	0.015	0.16	0.2	<0.01	4.3	0.2	<0.05	6	0.7	<0.2
1194619	Soil	10	22	0.76	202	0.110	<1	1.91	0.028	0.15	<0.1	<0.01	4.3	0.1	<0.05	6	0.5	<0.2
1194603	Soil	37	23	0.99	254	0.175	<1	2.24	0.015	0.85	<0.1	<0.01	3.5	0.3	<0.05	8	0.7	<0.2
1194611	Soil	8	32	0.44	361	0.043	<1	2.12	0.014	0.08	0.1	0.03	3.3	0.1	<0.05	7	0.8	<0.2
1194615	Soil	9	27	0.49	197	0.086	<1	1.84	0.010	0.17	0.1	0.02	4.5	0.1	<0.05	6	0.6	<0.2
1194601	Soil	11	36	0.66	218	0.076	<1	1.58	0.027	0.05	0.1	<0.01	3.7	<0.1	<0.05	5	0.5	<0.2
1194604	Soil	39	23	1.05	202	0.221	<1	2.27	0.019	0.73	<0.1	0.02	5.8	0.3	<0.05	9	<0.5	<0.2
1194612	Soil	11	26	0.56	324	0.098	1	1.51	0.016	0.35	0.1	0.01	5.0	0.1	<0.05	6	<0.5	<0.2
1196130	Soil	21	81	1.34	494	0.162	<1	2.49	0.014	0.69	<0.1	<0.01	5.6	0.4	<0.05	9	1.4	<0.2
1194606	Soil	16	38	0.55	262	0.087	1	1.46	0.029	0.07	0.1	0.02	4.6	<0.1	<0.05	5	0.7	<0.2
1194624	Soil	11	25	0.91	366	0.167	1	2.48	0.015	0.62	<0.1	0.01	9.7	0.3	<0.05	9	0.9	<0.2
1194613	Soil	24	22	0.51	233	0.096	<1	1.63	0.015	0.36	0.1	<0.01	5.2	0.2	<0.05	6	0.8	<0.2
1197748	Soil	8	22	1.66	329	0.156	2	3.06	0.040	0.10	0.3	0.02	9.1	<0.1	<0.05	8	<0.5	<0.2
1194567	Soil	12	27	0.54	264	0.074	1	2.02	0.013	0.06	0.1	0.01	2.4	0.1	<0.05	6	<0.5	<0.2
1194625	Soil	24	21	0.48	417	0.077	1	1.88	0.013	0.31	<0.1	0.01	4.7	0.2	<0.05	8	<0.5	<0.2
1194618	Soil	9	25	0.48	301	0.081	1	1.44	0.015	0.26	0.1	0.01	3.9	0.1	<0.05	6	0.5	<0.2
1198384	Soil	8	26	1.27	349	0.151	1	1.94	0.024	0.41	<0.1	0.02	5.7	0.2	0.06	8	0.5	<0.2
1196129	Soil	14	43	0.97	211	0.089	1	1.88	0.012	0.07	0.2	0.01	3.6	0.2	<0.05	7	1.0	<0.2
1197745	Soil	8	19	1.82	446	0.164	3	3.32	0.012	0.40	<0.1	0.02	6.0	0.3	<0.05	8	0.7	<0.2
1197747	Soil	4	22	1.89	255	0.207	2	3.24	0.033	0.16	0.1	<0.01	5.8	<0.1	<0.05	8	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

Page: 4 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11000213.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197620	Soil	2.7	37.4	20.7	96	0.2	29.0	13.1	465	3.04	7.9	1.5	4.3	3.7	27	0.2	0.4	0.2	87	0.43	0.089
1196934	Soil	3.1	49.6	18.4	83	<0.1	38.6	12.4	310	4.69	3.1	0.8	<0.5	1.3	22	<0.1	0.2	0.2	91	0.34	0.058
1196930	Soil	2.9	44.3	16.8	104	0.2	66.5	24.1	371	4.81	2.4	1.1	<0.5	1.8	24	0.3	0.2	0.1	88	0.45	0.153
1196131	Soil	4.4	66.5	11.2	150	<0.1	59.1	19.1	804	4.34	119.1	1.6	<0.5	7.6	25	0.4	0.5	0.1	133	0.48	0.107
1196931	Soil	0.9	65.8	6.0	73	0.1	34.7	35.1	596	4.88	14.2	0.5	3.3	1.6	29	<0.1	0.3	0.4	98	0.45	0.040
1196935	Soil	2.4	31.1	37.5	67	0.4	22.8	9.9	242	3.00	5.7	0.7	<0.5	2.1	20	<0.1	0.3	0.3	69	0.21	0.048
1193664	Soil	1.6	37.5	15.1	77	0.1	31.0	14.8	535	3.38	48.7	1.1	2.4	4.6	30	0.1	0.8	0.2	71	0.63	0.088
1198385	Soil	1.1	29.7	15.9	77	0.2	23.6	14.2	503	3.27	24.4	0.9	1.6	3.4	31	0.2	0.4	0.2	68	0.77	0.069
1196933	Soil	1.2	25.8	8.6	41	<0.1	13.5	7.3	175	3.05	6.8	0.4	2.4	0.9	16	<0.1	0.3	0.2	69	0.18	0.040
1193660	Soil	2.0	34.3	20.9	87	0.1	32.8	18.9	831	3.89	62.9	0.9	1.1	2.5	35	0.3	0.7	0.2	72	1.14	0.105
1196132	Soil	4.1	74.2	10.9	108	<0.1	52.0	19.9	711	4.43	101.9	1.1	<0.5	4.4	25	0.3	0.6	0.3	102	0.56	0.142
1197746	Soil	1.1	26.6	3.3	79	<0.1	8.9	18.9	575	4.15	2.6	0.5	<0.5	2.8	43	<0.1	0.1	<0.1	110	0.68	0.066
1197742	Soil	1.6	32.4	9.6	63	0.1	28.2	11.3	374	2.78	11.8	1.2	2.3	4.0	28	0.1	0.3	0.2	70	0.40	0.057
1196932	Soil	1.6	61.7	9.9	93	0.3	34.0	34.4	568	7.73	1.1	0.7	2.2	2.2	29	<0.1	<0.1	0.7	106	0.42	0.146
1193662	Soil	2.4	26.4	20.8	84	0.2	29.7	11.2	255	2.85	25.1	0.9	3.3	4.0	21	0.2	0.5	0.3	88	0.35	0.058
1197750	Soil	1.0	25.9	5.5	75	<0.1	11.9	18.6	585	4.27	3.7	0.4	<0.5	2.9	46	<0.1	0.2	<0.1	114	0.55	0.063
1197740	Soil	2.8	44.1	9.1	80	0.1	41.4	12.4	390	3.24	31.6	0.8	1.1	2.7	27	0.2	0.4	0.2	90	0.56	0.087
1197741	Soil	1.3	19.7	5.6	130	<0.1	21.2	19.3	1330	5.41	4.9	1.6	1.7	11.5	28	0.2	0.3	<0.1	112	0.58	0.087
1196135	Soil	3.1	64.3	8.5	93	0.2	62.8	18.1	702	3.78	33.8	1.2	<0.5	3.4	33	0.3	0.4	0.1	107	0.83	0.132
1193661	Soil	5.5	118.4	34.1	249	0.2	132.4	9.0	385	3.32	705.6	2.3	1.1	4.9	26	1.3	6.6	2.4	246	1.48	0.654
1194942	Soil	0.7	22.1	6.2	118	<0.1	9.1	6.0	597	3.64	5.5	1.1	4.0	4.1	28	<0.1	0.3	<0.1	38	0.36	0.055
1194846	Soil	0.6	37.3	8.3	52	0.1	17.3	16.7	385	3.20	4.2	0.4	1.6	1.8	25	<0.1	0.3	0.2	81	0.45	0.060
1194944	Soil	0.4	31.1	10.3	87	<0.1	19.9	10.1	636	3.20	4.7	0.7	3.0	2.8	30	0.1	0.3	<0.1	60	0.49	0.082
1194949	Soil	0.3	84.9	5.9	103	<0.1	13.2	17.9	772	3.74	4.0	0.4	1.1	1.9	98	<0.1	0.1	<0.1	102	0.54	0.030
1194943	Soil	0.8	24.4	12.0	118	<0.1	11.4	7.6	535	3.48	4.2	1.0	<0.5	5.3	33	<0.1	0.2	0.1	55	0.29	0.036
1194948	Soil	0.7	80.2	7.3	98	0.2	13.5	14.0	1383	3.62	5.6	1.0	1.5	4.9	70	0.1	0.3	0.1	83	0.44	0.032
1194947	Soil	1.6	22.1	15.5	114	<0.1	4.6	5.7	533	3.17	3.4	7.2	<0.5	4.4	68	0.2	0.2	<0.1	31	1.32	0.029
1194941	Soil	0.7	37.9	26.2	287	0.3	16.3	11.1	706	4.44	4.7	1.9	3.5	9.8	30	0.3	0.4	0.2	61	0.47	0.059
1194950	Soil	0.6	61.1	7.0	99	<0.1	32.7	18.4	825	4.75	5.9	0.9	<0.5	3.9	37	0.1	0.2	0.1	109	0.66	0.049
1194946	Soil	0.9	21.3	9.3	70	0.1	17.8	9.0	547	2.85	8.7	0.7	1.4	4.4	40	0.1	0.5	0.1	52	0.50	0.037

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Page: 4 of 5 Part 2

CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1197620	Soil	14	37	0.72	300	0.092	1	1.70	0.021	0.06	0.2	0.02	4.0	<0.1	<0.05	6	0.7	<0.2
1196934	Soil	11	47	1.01	187	0.219	<1	2.10	0.017	0.15	0.1	0.01	2.7	0.1	0.11	10	1.1	<0.2
1196930	Soil	16	31	1.48	420	0.244	<1	2.06	0.034	0.49	<0.1	<0.01	2.6	0.3	0.09	8	1.6	<0.2
1196131	Soil	21	77	1.34	519	0.160	<1	2.43	0.014	0.66	<0.1	<0.01	6.0	0.4	<0.05	9	1.2	<0.2
1196931	Soil	6	19	0.85	421	0.165	<1	2.34	0.029	0.14	<0.1	0.01	5.6	0.1	<0.05	7	<0.5	0.3
1196935	Soil	11	29	0.62	178	0.143	<1	1.57	0.013	0.09	<0.1	0.03	2.4	0.1	<0.05	7	<0.5	<0.2
1193664	Soil	19	35	1.04	304	0.089	1	1.97	0.019	0.15	0.1	0.04	6.1	0.2	<0.05	7	0.8	<0.2
1198385	Soil	14	31	0.85	323	0.088	<1	1.71	0.019	0.06	0.1	0.03	4.8	0.1	<0.05	6	0.8	<0.2
1196933	Soil	7	24	0.45	147	0.142	1	1.27	0.014	0.08	<0.1	<0.01	1.8	0.1	<0.05	6	0.7	<0.2
1193660	Soil	16	28	0.77	240	0.073	1	1.44	0.018	0.09	0.1	0.03	5.8	0.1	<0.05	5	0.6	<0.2
1196132	Soil	16	80	1.18	392	0.104	<1	2.57	0.013	0.46	0.1	0.02	5.9	0.2	<0.05	8	0.7	<0.2
1197746	Soil	6	20	1.57	454	0.172	1	2.77	0.034	0.37	<0.1	<0.01	4.6	0.2	<0.05	7	<0.5	<0.2
1197742	Soil	16	44	0.74	253	0.086	1	1.62	0.012	0.07	0.1	0.04	3.5	<0.1	<0.05	6	<0.5	<0.2
1196932	Soil	16	19	1.29	577	0.254	1	2.17	0.035	0.86	<0.1	0.01	4.9	0.4	0.22	10	<0.5	0.4
1193662	Soil	13	41	0.64	231	0.068	<1	1.79	0.010	0.04	0.1	0.02	3.3	<0.1	<0.05	5	0.7	<0.2
1197750	Soil	7	24	1.32	420	0.170	<1	2.89	0.024	0.25	<0.1	<0.01	4.7	<0.1	<0.05	7	<0.5	<0.2
1197740	Soil	10	68	0.99	368	0.124	1	1.80	0.015	0.12	0.1	0.02	3.6	0.1	<0.05	7	0.6	<0.2
1197741	Soil	18	23	1.16	529	0.033	<1	2.46	0.010	0.32	<0.1	0.02	12.6	<0.1	<0.05	12	<0.5	<0.2
1196135	Soil	11	92	1.37	603	0.162	<1	2.12	0.018	0.30	0.1	0.02	4.9	0.2	<0.05	8	0.6	<0.2
1193661	Soil	22	122	0.70	144	0.031	<1	1.79	0.014	0.11	0.2	0.03	5.2	0.2	<0.05	6	1.1	0.2
1194942	Soil	20	17	0.51	253	0.090	1	1.75	0.009	0.50	<0.1	0.02	10.6	0.1	<0.05	8	<0.5	<0.2
1194846	Soil	7	25	0.88	115	0.132	2	1.78	0.018	0.24	0.1	0.02	3.0	0.1	<0.05	7	<0.5	<0.2
1194944	Soil	12	37	0.67	191	0.090	<1	1.63	0.020	0.40	<0.1	0.01	5.8	0.1	<0.05	6	<0.5	<0.2
1194949	Soil	13	17	1.38	298	0.145	<1	2.18	0.028	0.71	<0.1	0.02	7.5	0.2	<0.05	8	<0.5	<0.2
1194943	Soil	19	26	0.59	259	0.110	<1	1.97	0.009	0.63	<0.1	0.01	6.7	0.2	<0.05	8	<0.5	<0.2
1194948	Soil	29	26	0.79	476	0.124	<1	2.13	0.021	0.48	<0.1	0.01	10.1	0.2	<0.05	8	<0.5	<0.2
1194947	Soil	38	10	0.56	54	0.059	1	1.45	0.011	0.37	<0.1	0.04	9.2	0.1	0.09	7	1.3	<0.2
1194941	Soil	36	18	0.92	241	0.067	<1	1.99	0.011	0.35	<0.1	0.06	8.1	0.2	<0.05	10	<0.5	<0.2
1194950	Soil	19	77	1.65	218	0.121	<1	2.67	0.022	0.56	<0.1	0.02	13.2	0.2	<0.05	10	<0.5	<0.2
1194946	Soil	15	27	0.57	266	0.087	<1	1.62	0.016	0.25	0.1	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000213.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1194936	Soil	6.8	88.0	13.7	228	0.6	58.6	18.3	483	3.91	2.4	5.5	0.8	11.4	84	0.9	0.1	0.2	72	0.45	0.063
1194848	Soil	0.2	261.1	2.4	35	0.1	22.9	32.0	382	3.24	1.9	0.2	4.2	0.5	37	<0.1	0.1	<0.1	124	0.70	0.056
1194896	Soil	3.0	14.2	8.0	86	<0.1	5.3	4.8	627	3.15	1.9	1.6	1.8	12.4	15	<0.1	0.1	0.1	16	0.28	0.022
1194807	Soil	3.4	12.4	8.4	94	<0.1	13.3	7.5	828	3.32	3.9	1.5	0.7	5.7	29	0.2	0.3	0.2	42	0.36	0.025
1194809	Soil	0.7	35.0	15.4	96	0.1	19.3	14.5	1109	4.26	3.6	1.1	1.6	6.5	50	0.1	0.3	0.1	91	1.05	0.061
1194810	Soil	0.3	31.7	6.4	109	<0.1	11.8	19.3	1343	5.80	1.8	0.5	<0.5	1.5	43	0.2	0.1	<0.1	104	2.08	0.220
1193515	Soil	0.7	15.4	20.8	58	0.2	17.1	7.1	262	2.59	7.4	0.7	1.6	4.2	17	<0.1	0.6	0.4	53	0.17	0.018
1193524	Soil	0.9	21.3	10.3	49	<0.1	28.2	11.5	255	3.00	10.5	0.6	7.2	4.6	17	<0.1	0.6	0.2	63	0.16	0.023
1193507	Soil	0.9	19.3	9.5	66	<0.1	24.0	8.7	408	2.93	9.8	0.5	1.1	4.5	26	0.1	0.7	0.1	59	0.29	0.025
1193521	Soil	1.2	15.6	9.4	61	<0.1	17.9	8.9	461	3.09	10.1	0.5	1.7	4.1	23	<0.1	0.7	0.2	60	0.22	0.032
1193540	Soil	0.9	14.0	9.6	42	<0.1	15.2	7.0	211	2.50	7.4	0.6	0.6	3.2	21	<0.1	0.4	0.2	64	0.23	0.018
1193532	Soil	1.2	15.4	10.8	50	0.1	17.3	8.6	291	2.79	9.7	1.0	3.1	5.6	17	<0.1	0.6	0.2	64	0.16	0.017
1193506	Soil	1.0	17.5	9.8	65	<0.1	23.5	8.8	392	2.75	9.1	0.5	<0.5	4.3	25	<0.1	0.6	0.1	57	0.27	0.025
1193526	Soil	1.2	21.0	10.5	51	<0.1	24.4	9.2	248	2.82	8.9	1.2	2.1	5.6	26	<0.1	0.6	0.2	61	0.25	0.014
1193545	Soil	1.1	18.0	10.1	49	<0.1	21.3	8.7	274	2.83	9.4	0.5	5.2	4.8	16	<0.1	0.6	0.2	63	0.14	0.021
1193527	Soil	1.1	17.7	9.3	48	<0.1	24.8	10.6	240	2.71	9.1	0.8	2.5	4.9	20	<0.1	0.7	0.2	62	0.21	0.025
1193519	Soil	0.7	15.7	8.4	50	<0.1	14.9	8.1	248	3.09	5.6	0.7	2.5	3.2	32	<0.1	0.5	0.1	50	0.30	0.019
1193511	Soil	0.8	11.8	9.0	85	0.1	17.2	11.5	1280	2.29	3.0	0.3	1.3	2.3	31	0.2	0.4	0.1	54	0.35	0.043
1193509	Soil	0.8	12.1	9.2	86	0.2	17.2	11.1	1504	2.27	2.8	0.3	0.6	2.1	31	0.2	0.4	0.1	54	0.34	0.044



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CERTIFICATE OF ANALYSIS

WHI11000213.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
1194936	Soil	23	42	1.66	737	0.121	<1	2.67	0.015	0.88	<0.1	0.02	4.0	0.6	0.15	8	2.3	<0.2
1194848	Soil	2	31	1.77	165	0.123	<1	1.65	0.056	0.56	<0.1	0.02	8.2	0.2	<0.05	4	0.6	<0.2
1194896	Soil	49	7	0.42	111	0.042	<1	1.15	0.006	0.37	<0.1	0.01	6.6	0.2	<0.05	6	<0.5	<0.2
1194807	Soil	12	22	0.48	278	0.090	<1	1.86	0.011	0.35	<0.1	0.02	5.7	0.2	<0.05	7	0.7	<0.2
1194809	Soil	35	29	0.96	273	0.063	2	2.07	0.012	0.45	<0.1	0.04	11.6	0.2	<0.05	8	<0.5	<0.2
1194810	Soil	13	24	1.52	239	0.085	<1	2.51	0.013	0.46	<0.1	0.02	12.9	0.2	<0.05	10	<0.5	<0.2
1193515	Soil	14	31	0.44	403	0.038	<1	1.66	0.009	0.07	0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
1193524	Soil	11	37	0.54	293	0.054	<1	2.29	0.011	0.05	0.1	0.02	2.7	0.1	<0.05	6	0.5	<0.2
1193507	Soil	13	37	0.51	504	0.066	<1	1.77	0.011	0.10	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
1193521	Soil	10	33	0.54	356	0.068	<1	2.00	0.012	0.09	0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
1193540	Soil	12	30	0.48	261	0.067	<1	1.75	0.011	0.03	0.1	0.01	2.9	0.1	<0.05	6	0.7	<0.2
1193532	Soil	14	38	0.52	245	0.060	<1	2.00	0.010	0.04	0.1	0.03	3.4	0.1	<0.05	6	<0.5	<0.2
1193506	Soil	12	37	0.48	488	0.062	<1	1.71	0.016	0.10	0.1	0.03	4.1	<0.1	<0.05	5	0.5	<0.2
1193526	Soil	18	43	0.54	349	0.068	<1	2.05	0.012	0.05	<0.1	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
1193545	Soil	10	39	0.52	203	0.070	<1	2.20	0.014	0.06	0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
1193527	Soil	12	33	0.48	309	0.055	<1	2.14	0.011	0.04	0.2	0.04	3.3	0.1	<0.05	6	0.7	<0.2
1193519	Soil	9	24	0.49	262	0.060	<1	2.08	0.015	0.03	<0.1	0.03	5.0	<0.1	<0.05	7	1.0	<0.2
1193511	Soil	8	26	0.40	746	0.055	<1	1.64	0.016	0.10	<0.1	0.03	2.8	<0.1	<0.05	6	0.6	<0.2
1193509	Soil	8	25	0.39	751	0.053	1	1.62	0.016	0.09	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2





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QUALITY CONTROL REPORT

WHI11000213.2

Method	Analyte	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1193528	Soil	1.0	14.6	11.0	43	0.1	19.2	8.2	244	2.45	7.9	0.6	1.7	4.1	14	<0.1	0.5	0.2	62	0.15	0.014
REP 1193528	QC	1.1	14.9	11.2	43	<0.1	19.1	8.1	248	2.46	7.7	0.6	1.6	4.2	14	<0.1	0.4	0.2	60	0.16	0.015
1194605	Soil	0.5	117.1	4.7	50	<0.1	23.6	21.7	441	3.31	4.2	0.6	1.5	2.4	49	<0.1	0.3	<0.1	92	1.11	0.253
REP 1194605	QC	0.5	119.7	5.3	54	<0.1	24.1	22.3	458	3.35	4.3	0.6	2.5	2.4	49	<0.1	0.3	<0.1	98	1.10	0.246
1194606	Soil	1.3	23.9	10.5	54	0.1	28.8	10.6	453	2.97	11.1	0.9	3.9	5.1	39	<0.1	0.7	0.2	61	0.45	0.035
REP 1194606	QC	1.4	24.2	9.7	57	0.1	29.1	10.3	439	2.78	10.5	0.9	2.2	5.2	36	<0.1	0.7	0.2	56	0.43	0.034
1196129	Soil	4.9	45.7	9.5	141	0.1	36.9	9.6	301	3.31	77.4	1.3	1.4	4.1	37	0.5	0.7	0.2	129	0.52	0.144
REP 1196129	QC	5.2	43.9	9.6	151	0.1	38.6	10.2	320	3.49	78.9	1.3	11.2	4.1	38	0.5	0.7	0.2	129	0.54	0.141
1197741	Soil	1.3	19.7	5.6	130	<0.1	21.2	19.3	1330	5.41	4.9	1.6	1.7	11.5	28	0.2	0.3	<0.1	112	0.58	0.087
REP 1197741	QC	1.3	20.7	5.8	132	<0.1	21.3	19.7	1359	5.57	4.9	1.7	0.8	12.0	29	0.2	0.3	<0.1	113	0.62	0.088
1193521	Soil	1.2	15.6	9.4	61	<0.1	17.9	8.9	461	3.09	10.1	0.5	1.7	4.1	23	<0.1	0.7	0.2	60	0.22	0.032
REP 1193521	QC	1.3	15.7	9.7	61	<0.1	18.0	9.3	461	3.12	10.3	0.5	1.0	4.0	23	<0.1	0.6	0.2	59	0.24	0.033
Reference Materials																					
STD DS8	Standard	15.0	121.4	137.5	321	1.7	41.6	8.3	633	2.46	25.8	3.1	127.0	7.7	69	2.0	5.9	6.7	45	0.74	0.082
STD DS8	Standard	15.4	127.6	138.4	331	1.8	43.9	8.9	639	2.58	26.9	2.9	123.7	7.6	68	2.4	5.6	6.7	47	0.75	0.082
STD DS8	Standard	13.2	109.7	127.0	318	1.8	37.6	7.4	635	2.41	25.6	2.8	118.3	7.2	68	2.2	6.0	6.8	45	0.67	0.074
STD DS8	Standard	14.3	114.3	133.8	319	1.7	38.2	7.7	635	2.59	26.5	2.9	115.5	7.4	73	2.3	6.5	7.0	46	0.71	0.080
STD DS8	Standard	14.3	111.6	128.4	331	2.0	41.1	7.8	664	2.58	27.8	2.7	109.3	6.9	82	2.4	6.4	6.8	43	0.77	0.083
STD DS8	Standard	14.4	107.9	120.8	334	2.0	35.7	7.5	654	2.56	27.5	2.9	109.7	7.4	81	2.6	6.5	6.9	42	0.70	0.081
STD DS8	Standard	13.3	111.2	125.2	329	1.9	37.7	7.5	616	2.47	26.7	2.8	112.8	7.1	70	2.5	6.1	7.2	41	0.69	0.079
STD DS8	Standard	13.5	113.3	122.4	330	1.9	39.7	7.7	632	2.53	27.3	2.9	110.3	7.0	76	2.3	6.0	6.8	44	0.75	0.078
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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QUALITY CONTROL REPORT

WHI11000213.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1193528	Soil	10	33	0.44	235	0.060	<1	1.82	0.008	0.03	0.2	0.01	2.4	0.1	<0.05	5	<0.5	<0.2
REP 1193528	QC	10	34	0.42	237	0.057	<1	1.78	0.007	0.03	0.2	0.01	2.5	0.1	<0.05	5	<0.5	<0.2
1194605	Soil	9	48	1.26	250	0.149	<1	2.06	0.031	0.28	<0.1	0.02	6.1	0.1	<0.05	6	<0.5	<0.2
REP 1194605	QC	9	50	1.32	258	0.153	<1	2.16	0.032	0.29	<0.1	0.01	6.1	0.1	<0.05	6	<0.5	<0.2
1194606	Soil	16	38	0.55	262	0.087	1	1.46	0.029	0.07	0.1	0.02	4.6	<0.1	<0.05	5	0.7	<0.2
REP 1194606	QC	15	37	0.56	257	0.081	<1	1.51	0.026	0.07	0.1	0.02	4.6	<0.1	<0.05	5	0.7	<0.2
1196129	Soil	14	43	0.97	211	0.089	1	1.88	0.012	0.07	0.2	0.01	3.6	0.2	<0.05	7	1.0	<0.2
REP 1196129	QC	14	45	1.03	213	0.089	<1	1.89	0.013	0.07	0.1	<0.01	3.9	0.2	<0.05	7	1.0	<0.2
1197741	Soil	18	23	1.16	529	0.033	<1	2.46	0.010	0.32	<0.1	0.02	12.6	<0.1	<0.05	12	<0.5	<0.2
REP 1197741	QC	18	23	1.20	545	0.034	<1	2.54	0.011	0.33	<0.1	<0.01	13.1	<0.1	<0.05	12	0.9	<0.2
1193521	Soil	10	33	0.54	356	0.068	<1	2.00	0.012	0.09	0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
REP 1193521	QC	10	32	0.54	360	0.067	<1	1.95	0.012	0.09	0.1	0.02	3.3	<0.1	<0.05	6	0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	130	0.64	284	0.137	3	1.01	0.106	0.45	3.3	0.18	2.5	5.7	0.13	5	5.3	5.5
STD DS8	Standard	15	135	0.66	287	0.131	3	0.99	0.105	0.45	3.2	0.21	2.3	5.8	0.17	5	5.4	5.2
STD DS8	Standard	14	108	0.62	285	0.107	3	0.87	0.093	0.42	3.0	0.21	2.2	5.9	0.11	5	5.5	5.2
STD DS8	Standard	17	116	0.64	313	0.121	3	0.97	0.104	0.43	3.2	0.21	2.3	5.8	0.07	5	6.7	5.1
STD DS8	Standard	15	118	0.65	298	0.126	2	0.96	0.101	0.44	3.0	0.20	2.1	5.5	0.19	5	5.8	4.8
STD DS8	Standard	16	120	0.63	297	0.122	3	0.94	0.100	0.42	3.0	0.20	2.1	5.3	0.18	5	5.9	4.8
STD DS8	Standard	15	118	0.61	273	0.112	2	0.90	0.097	0.43	2.9	0.21	2.3	5.5	0.17	5	5.3	5.2
STD DS8	Standard	16	121	0.64	292	0.121	<1	0.94	0.092	0.44	2.9	0.20	2.4	5.4	0.17	5	5.7	5.0
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 20, 2011
Report Date: July 19, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

WHI11000307.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID:
P.O. Number
Number of Samples: 249

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

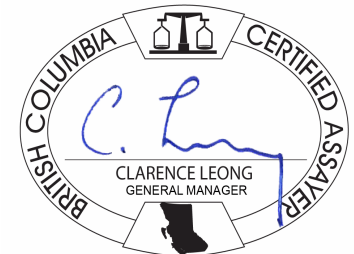
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include Dry at 60C, SS80, and 1DX2.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Vancouver BC V6C 1H2 Canada

Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 10 Part 1

CERTIFICATE OF ANALYSIS

WHI11000307.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1193777	Soil	0.2	43.8	2.5	84	<0.1	15.2	26.0	781	4.24	<0.5	0.6	<0.5	2.0	59	<0.1	<0.1	<0.1	103	0.54	0.059
1193779	Soil	0.1	56.3	2.0	69	<0.1	13.3	22.0	776	4.48	1.2	1.3	<0.5	8.8	52	<0.1	0.1	<0.1	132	0.49	0.060
1194691	Soil	0.4	16.4	5.2	54	<0.1	7.3	13.1	449	4.41	10.2	1.0	<0.5	7.4	27	<0.1	0.1	<0.1	44	0.44	0.050
1194692	Soil	0.3	20.7	4.2	67	<0.1	13.9	20.1	785	4.63	3.7	0.5	0.7	4.2	52	<0.1	0.3	<0.1	113	0.58	0.056
1194693	Soil	0.5	18.2	7.1	45	0.2	16.1	8.8	387	2.53	6.6	0.7	2.1	4.0	27	<0.1	0.4	0.1	57	0.34	0.041
1194694	Soil	0.7	126.5	12.5	94	<0.1	48.8	22.8	775	4.87	5.3	0.9	0.6	21.9	17	<0.1	0.3	0.2	45	0.27	0.088
1194695	Soil	0.4	60.6	13.3	100	<0.1	52.8	17.2	683	4.80	4.1	1.5	1.7	23.2	33	<0.1	0.2	0.2	64	0.40	0.089
1194696	Soil	0.3	37.1	4.3	70	<0.1	12.3	20.6	610	4.67	2.6	0.4	0.6	2.7	28	<0.1	0.2	<0.1	102	0.31	0.014
1194697	Soil	0.4	27.8	5.3	93	<0.1	15.8	21.6	827	4.92	3.3	1.3	1.8	7.4	63	<0.1	0.3	<0.1	106	0.54	0.038
1194698	Soil	0.3	24.4	7.9	85	<0.1	13.8	16.1	689	4.38	3.5	1.5	1.7	8.3	252	<0.1	0.2	<0.1	89	0.66	0.051
1194699	Soil	0.3	95.0	4.2	77	<0.1	15.9	19.3	667	4.19	3.6	0.5	<0.5	3.0	54	<0.1	0.2	<0.1	102	0.58	0.062
1194700	Soil	0.2	48.2	3.6	77	<0.1	18.1	24.3	744	4.51	2.3	0.5	0.6	3.2	54	<0.1	0.2	<0.1	111	0.71	0.074
1194701	Soil	0.7	26.6	10.3	64	<0.1	21.0	11.4	397	3.16	9.0	1.5	2.5	7.3	27	<0.1	0.6	0.1	76	0.26	0.021
1194702	Soil	0.4	35.6	17.4	74	<0.1	10.4	11.5	476	3.66	5.9	1.6	0.6	19.6	19	<0.1	0.4	0.1	71	0.17	0.013
1194703	Soil	0.2	12.0	3.1	72	<0.1	7.4	12.6	775	3.71	1.3	0.9	0.5	10.1	27	0.1	0.1	<0.1	104	0.40	0.049
1194704	Soil	0.3	14.4	4.5	63	<0.1	9.7	16.9	752	3.96	2.8	1.6	1.1	8.8	36	<0.1	0.2	<0.1	111	0.36	0.034
1194705	Soil	0.2	21.9	7.6	88	<0.1	8.1	16.1	1006	5.31	1.3	1.4	1.5	14.5	23	<0.1	0.1	<0.1	152	0.22	0.019
1194736	Soil	0.5	47.8	5.7	58	<0.1	21.3	14.2	456	3.43	8.2	0.8	2.8	3.9	37	<0.1	0.5	0.1	76	0.43	0.047
1194737	Soil	0.6	21.7	15.7	52	<0.1	18.0	8.8	281	2.60	8.2	0.8	1.9	15.3	32	<0.1	0.5	0.1	55	0.38	0.023
1194738	Soil	1.2	44.3	23.5	145	0.1	33.2	12.9	461	3.53	10.5	1.0	4.0	6.9	34	0.3	0.6	0.3	59	0.41	0.027
1194739	Soil	0.3	109.8	2.5	61	<0.1	9.4	18.0	684	3.90	3.0	0.7	<0.5	5.2	58	<0.1	0.2	<0.1	103	0.51	0.052
1194740	Soil	0.2	22.2	7.7	58	<0.1	11.4	17.3	898	4.62	3.8	1.7	1.1	12.0	27	<0.1	0.3	<0.1	92	0.36	0.033
1194741	Soil	1.6	30.5	12.6	72	0.2	28.1	10.9	357	3.49	11.2	0.9	1.1	5.4	20	<0.1	0.5	0.3	70	0.17	0.021
1194742	Soil	0.4	16.1	5.6	68	<0.1	10.6	11.0	500	3.56	4.8	0.7	1.3	6.1	52	<0.1	0.3	<0.1	60	0.30	0.037
1194743	Soil	1.4	21.8	8.5	111	<0.1	24.7	11.8	390	3.23	14.6	0.9	1.7	5.3	50	0.2	0.6	0.1	60	0.35	0.052
1194744	Soil	1.5	18.7	6.7	154	<0.1	22.2	13.4	507	3.32	17.0	1.1	<0.5	6.0	69	0.2	0.4	<0.1	54	0.48	0.081
1194745	Soil	2.0	35.6	10.6	206	0.2	52.0	10.4	655	3.12	35.7	1.0	7.8	6.3	23	1.2	0.8	0.2	93	0.27	0.045
1194746	Soil	2.8	43.2	12.2	297	0.1	66.7	10.1	812	3.40	56.0	1.3	2.4	8.0	26	1.9	0.7	0.2	101	0.31	0.065
1194747	Soil	5.4	84.9	6.3	263	<0.1	76.0	19.3	721	8.57	2.0	2.7	1.1	4.5	26	0.3	0.1	0.2	137	1.02	0.278
1194748	Soil	3.0	44.6	23.2	145	0.1	51.2	10.3	276	2.27	80.6	1.5	1.7	7.2	35	0.4	0.4	0.2	83	0.39	0.030

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000307.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	0.2
1193777	Soil	8	36	2.10	497	0.262	<1	2.78	0.016	1.27	<0.1	<0.01	3.3	0.3	<0.05	5	<0.5	<0.2
1193779	Soil	20	43	2.11	466	0.266	<1	2.93	0.020	1.36	<0.1	<0.01	5.6	0.3	<0.05	7	<0.5	<0.2
1194691	Soil	8	8	0.85	262	0.003	2	2.34	0.010	0.16	<0.1	0.03	8.4	<0.1	<0.05	5	<0.5	<0.2
1194692	Soil	20	19	1.63	319	0.237	<1	2.51	0.011	1.02	<0.1	0.01	3.4	0.3	<0.05	7	<0.5	<0.2
1194693	Soil	14	26	0.52	260	0.080	<1	1.39	0.013	0.07	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
1194694	Soil	38	32	0.96	326	0.102	<1	2.24	0.008	0.57	<0.1	<0.01	3.1	0.2	<0.05	7	<0.5	<0.2
1194695	Soil	71	44	1.47	304	0.163	<1	2.87	0.009	0.87	<0.1	0.01	4.7	0.5	<0.05	8	0.5	<0.2
1194696	Soil	18	25	1.58	460	0.208	1	3.00	0.019	0.66	<0.1	0.01	3.5	0.3	<0.05	7	<0.5	<0.2
1194697	Soil	29	30	1.71	226	0.222	<1	2.84	0.012	0.50	<0.1	0.02	5.9	0.2	<0.05	8	0.7	<0.2
1194698	Soil	26	24	1.24	383	0.199	<1	2.59	0.017	0.33	<0.1	0.02	4.6	0.2	<0.05	8	<0.5	<0.2
1194699	Soil	7	35	1.85	530	0.249	<1	2.61	0.016	0.93	<0.1	<0.01	3.5	0.2	<0.05	6	<0.5	<0.2
1194700	Soil	7	39	1.96	472	0.272	<1	2.75	0.020	0.92	<0.1	0.01	4.0	0.2	<0.05	7	<0.5	<0.2
1194701	Soil	20	36	0.71	266	0.100	<1	1.94	0.011	0.15	0.1	0.03	6.7	<0.1	<0.05	6	<0.5	<0.2
1194702	Soil	43	19	0.90	261	0.150	<1	2.16	0.010	0.34	<0.1	0.02	6.1	0.1	<0.05	7	<0.5	<0.2
1194703	Soil	18	13	1.47	444	0.198	<1	2.25	0.013	0.93	<0.1	0.02	4.7	0.2	<0.05	7	<0.5	<0.2
1194704	Soil	25	17	1.65	446	0.235	<1	2.57	0.013	0.99	<0.1	<0.01	5.1	0.2	<0.05	7	0.6	<0.2
1194705	Soil	38	18	1.92	595	0.237	<1	3.01	0.013	1.60	<0.1	0.01	16.4	0.3	<0.05	10	<0.5	<0.2
1194736	Soil	12	36	1.05	313	0.160	<1	1.83	0.020	0.38	0.1	0.03	4.6	0.2	<0.05	5	<0.5	<0.2
1194737	Soil	30	30	0.55	221	0.079	<1	1.78	0.013	0.08	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
1194738	Soil	22	43	0.57	224	0.077	<1	1.71	0.010	0.06	0.1	0.03	6.2	<0.1	<0.05	6	<0.5	<0.2
1194739	Soil	13	13	1.56	215	0.257	<1	2.45	0.008	0.67	<0.1	<0.01	1.9	0.2	<0.05	6	<0.5	<0.2
1194740	Soil	22	15	1.13	364	0.145	3	2.27	0.011	0.78	<0.1	0.04	8.1	0.4	<0.05	7	<0.5	<0.2
1194741	Soil	13	42	0.68	256	0.092	<1	2.33	0.009	0.10	0.1	0.02	3.1	0.2	<0.05	7	0.7	<0.2
1194742	Soil	9	19	0.71	241	0.195	<1	1.93	0.009	0.59	<0.1	0.02	1.6	0.3	<0.05	6	<0.5	<0.2
1194743	Soil	23	34	0.95	277	0.109	<1	2.11	0.009	0.14	0.1	0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
1194744	Soil	30	33	1.36	295	0.129	<1	2.26	0.007	0.28	<0.1	<0.01	3.0	0.2	<0.05	7	<0.5	<0.2
1194745	Soil	24	40	0.57	423	0.042	<1	1.87	0.010	0.06	0.1	0.04	4.9	0.1	<0.05	6	0.8	<0.2
1194746	Soil	33	37	0.63	456	0.032	1	1.96	0.008	0.07	0.1	0.06	6.0	<0.1	<0.05	7	<0.5	<0.2
1194747	Soil	26	41	2.14	848	0.308	<1	4.60	0.018	1.63	<0.1	0.01	8.9	0.6	<0.05	19	1.7	<0.2
1194748	Soil	20	27	0.74	554	0.006	<1	1.79	0.009	0.07	<0.1	0.02	2.2	0.1	<0.05	5	1.0	<0.2

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 Vancouver BC V6C 1H2 Canada

Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1194749	Soil	1.4	16.1	11.0	72	0.7	20.4	8.4	358	2.53	11.1	0.6	0.7	3.6	16	0.6	0.5	0.2	64	0.16	0.038
1194750	Soil	0.4	27.2	3.6	70	<0.1	16.5	20.6	588	4.31	3.8	0.3	<0.5	3.3	81	<0.1	0.2	<0.1	108	0.62	0.046
1195546	Soil	1.3	29.0	6.8	185	<0.1	19.3	11.3	682	4.16	19.3	1.6	<0.5	10.0	107	<0.1	0.4	<0.1	107	0.70	0.118
1196892	Soil	0.6	31.1	4.6	83	<0.1	14.5	19.9	880	5.58	6.4	1.0	<0.5	10.0	32	<0.1	0.3	0.1	120	0.42	0.049
1196893	Soil	0.7	26.3	13.4	116	<0.1	36.2	12.4	409	4.26	7.7	0.7	0.6	8.2	19	<0.1	0.4	0.2	64	0.39	0.038
1196895	Soil	0.7	16.1	6.6	55	<0.1	17.3	10.2	376	2.78	6.1	0.5	1.3	4.0	19	<0.1	0.3	0.1	67	0.24	0.027
1196896	Soil	3.1	66.0	5.4	111	<0.1	34.6	21.9	666	5.99	238.4	1.1	2.3	2.3	27	0.1	0.4	<0.1	147	0.67	0.093
1196897	Soil	1.0	23.2	21.5	93	0.2	25.5	11.1	380	3.02	9.0	0.6	0.9	5.8	25	<0.1	0.5	0.2	62	0.31	0.018
1196899	Soil	0.8	15.7	7.1	71	<0.1	18.4	13.8	538	3.82	7.3	0.4	0.6	4.7	22	<0.1	0.4	0.1	83	0.21	0.028
1196900	Soil	0.9	28.3	9.0	50	<0.1	19.2	10.1	326	2.97	7.5	0.5	2.3	6.0	16	<0.1	0.5	0.1	58	0.18	0.021
1198401	Soil	0.6	41.5	7.4	89	<0.1	48.7	19.3	488	3.92	3.6	0.8	1.5	12.3	16	0.1	0.2	<0.1	53	0.26	0.053
1198402	Soil	0.5	96.1	10.3	88	<0.1	58.1	20.3	476	5.00	6.3	0.6	<0.5	15.0	16	<0.1	0.2	0.2	65	0.25	0.056
1198403	Soil	0.6	31.0	6.3	50	<0.1	26.4	9.5	314	2.76	8.5	0.7	17.1	5.0	27	<0.1	0.5	0.1	67	0.41	0.031
1198404	Soil	0.7	25.0	8.0	53	<0.1	24.2	11.3	482	2.77	8.3	0.7	2.5	4.8	27	0.1	0.5	0.1	63	0.40	0.026
1198405	Soil	0.6	31.5	7.5	56	<0.1	26.7	10.7	530	3.04	11.9	0.8	44.0	7.5	26	<0.1	0.5	0.2	68	0.43	0.035
1198406	Soil	0.8	27.9	7.5	52	<0.1	25.5	10.2	412	2.83	9.4	0.8	4.3	5.2	26	<0.1	0.5	0.1	69	0.42	0.033
1198407	Soil	0.6	20.4	6.9	55	<0.1	22.7	11.6	411	2.82	9.0	0.5	1.0	4.6	24	<0.1	0.5	0.1	63	0.34	0.024
1198408	Soil	0.5	33.5	4.2	73	<0.1	14.6	15.0	577	3.74	4.6	1.1	1.6	7.7	34	<0.1	0.3	<0.1	87	0.47	0.058
1198409	Soil	0.6	15.0	7.1	57	<0.1	17.2	11.2	563	2.79	5.0	0.6	1.1	4.6	25	<0.1	0.3	<0.1	65	0.33	0.039
1198410	Soil	4.5	72.5	14.1	152	0.1	77.8	14.6	549	5.14	352.4	1.7	3.0	8.4	20	0.5	0.7	0.3	91	0.51	0.137
1198411	Soil	2.6	70.0	11.3	121	0.2	54.9	12.9	421	3.39	57.3	1.2	4.4	8.3	20	0.3	0.4	0.2	65	0.38	0.056
1198412	Soil	1.1	87.6	3.4	119	0.2	18.9	26.0	837	8.73	326.2	1.0	2.9	0.9	32	0.1	0.5	<0.1	153	1.08	0.164
1198413	Soil	0.9	32.2	5.6	68	0.2	33.3	18.7	541	3.71	7.7	0.6	0.7	2.3	21	0.1	0.3	<0.1	98	0.55	0.112
1198414	Soil	7.7	46.1	7.2	126	0.2	50.2	19.3	641	5.81	127.4	2.1	0.7	3.9	25	0.2	0.4	<0.1	103	0.69	0.165
1198415	Soil	1.6	32.8	8.9	65	<0.1	28.6	14.3	444	3.25	44.6	0.6	<0.5	3.4	24	<0.1	0.5	0.1	71	0.41	0.032
1198416	Soil	2.0	39.7	14.8	87	0.2	37.0	12.0	398	3.13	149.6	1.1	9.7	6.0	22	0.3	0.8	0.1	62	0.34	0.046
1198417	Soil	1.8	33.4	9.8	68	<0.1	48.3	17.7	521	3.70	265.2	0.7	4.2	9.4	19	<0.1	0.6	0.1	58	0.38	0.041
1198418	Soil	0.8	35.2	7.8	55	<0.1	23.3	9.2	386	2.90	25.7	1.0	5.4	7.4	27	<0.1	0.5	0.1	58	0.40	0.058
1198419	Soil	1.4	80.2	4.3	114	0.2	25.0	26.1	809	8.34	566.5	1.2	3.5	2.0	29	0.1	1.0	<0.1	137	0.82	0.121
1198420	Soil	0.8	23.2	8.5	54	<0.1	22.9	9.5	431	2.86	12.7	0.9	2.5	8.1	23	<0.1	0.5	0.1	54	0.39	0.030

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000307.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1194749	Soil	11	34	0.44	654	0.054	<1	1.72	0.008	0.04	0.2	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
1194750	Soil	6	37	1.58	333	0.275	<1	2.53	0.017	0.52	<0.1	<0.01	2.4	0.1	<0.05	7	<0.5	<0.2
1195546	Soil	49	24	1.40	244	0.179	<1	2.57	0.011	0.12	<0.1	0.03	5.6	0.1	<0.05	12	<0.5	<0.2
1196892	Soil	9	21	1.71	269	0.169	<1	2.71	0.006	0.32	<0.1	<0.01	5.9	0.1	<0.05	10	<0.5	<0.2
1196893	Soil	14	58	0.99	196	0.181	<1	2.12	0.008	0.36	0.1	0.01	6.4	0.4	<0.05	9	<0.5	<0.2
1196895	Soil	9	25	0.76	187	0.085	1	1.70	0.009	0.24	<0.1	0.02	2.7	0.1	<0.05	5	<0.5	<0.2
1196896	Soil	13	49	1.74	422	0.226	<1	2.75	0.017	0.43	0.1	0.03	11.1	0.1	<0.05	12	<0.5	<0.2
1196897	Soil	13	38	0.49	222	0.052	1	2.03	0.006	0.03	0.1	0.02	3.5	0.1	<0.05	6	<0.5	<0.2
1196899	Soil	9	30	1.10	218	0.181	2	2.50	0.011	0.62	<0.1	<0.01	2.5	0.3	<0.05	6	<0.5	<0.2
1196900	Soil	13	29	0.55	176	0.053	<1	1.76	0.008	0.13	<0.1	0.02	3.7	0.1	<0.05	5	<0.5	<0.2
1198401	Soil	42	37	0.94	213	0.138	<1	2.19	0.009	0.60	<0.1	0.01	4.3	0.4	<0.05	6	<0.5	<0.2
1198402	Soil	38	42	1.26	296	0.154	<1	2.97	0.009	0.92	<0.1	<0.01	4.0	0.3	<0.05	9	<0.5	<0.2
1198403	Soil	16	32	0.63	187	0.097	1	1.36	0.022	0.10	0.2	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2
1198404	Soil	16	31	0.59	260	0.089	1	1.49	0.015	0.14	0.1	0.01	4.8	<0.1	<0.05	5	0.6	<0.2
1198405	Soil	22	28	0.73	249	0.092	1	1.56	0.017	0.21	0.2	0.02	4.7	0.1	<0.05	5	<0.5	<0.2
1198406	Soil	17	33	0.63	272	0.093	2	1.47	0.020	0.09	0.2	0.03	5.5	<0.1	<0.05	5	0.7	<0.2
1198407	Soil	11	31	0.63	234	0.108	3	1.64	0.011	0.28	0.1	0.02	3.7	0.1	<0.05	5	<0.5	<0.2
1198408	Soil	22	19	1.12	199	0.147	1	2.01	0.010	0.47	<0.1	<0.01	4.8	0.1	<0.05	6	<0.5	<0.2
1198409	Soil	11	24	0.75	251	0.075	<1	1.65	0.013	0.33	0.1	0.01	3.5	0.1	<0.05	5	<0.5	<0.2
1198410	Soil	36	40	0.90	434	0.024	1	2.17	0.006	0.35	<0.1	0.03	7.8	0.4	<0.05	6	1.1	<0.2
1198411	Soil	25	38	0.79	490	0.063	2	1.53	0.013	0.16	<0.1	0.05	3.9	0.2	<0.05	4	0.9	<0.2
1198412	Soil	13	13	2.19	633	0.091	<1	3.73	0.026	0.29	<0.1	0.10	15.3	0.2	<0.05	17	<0.5	<0.2
1198413	Soil	10	44	1.07	329	0.155	<1	1.97	0.020	0.56	0.2	0.01	5.0	0.1	<0.05	7	0.5	<0.2
1198414	Soil	20	65	1.71	408	0.145	<1	2.94	0.012	0.71	0.1	0.02	8.2	0.2	<0.05	12	1.3	<0.2
1198415	Soil	12	33	0.73	299	0.100	<1	1.71	0.017	0.25	0.1	0.01	5.2	0.1	<0.05	6	0.6	<0.2
1198416	Soil	17	32	0.57	305	0.068	2	1.51	0.012	0.22	0.1	0.03	4.6	0.1	<0.05	4	<0.5	<0.2
1198417	Soil	23	31	0.71	258	0.048	1	1.71	0.012	0.17	0.1	0.03	5.9	<0.1	<0.05	5	<0.5	<0.2
1198418	Soil	21	28	0.61	201	0.098	<1	1.42	0.022	0.21	0.1	0.05	4.6	0.1	<0.05	5	<0.5	<0.2
1198419	Soil	20	16	1.94	530	0.094	2	3.62	0.020	0.29	<0.1	0.11	14.5	0.2	<0.05	15	0.7	<0.2
1198420	Soil	20	30	0.50	294	0.059	<1	1.62	0.013	0.16	0.1	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000307.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1198421	Soil	1.8	33.0	7.2	69	<0.1	16.9	12.2	731	4.31	57.7	1.7	1.8	16.3	29	<0.1	0.7	<0.1	68	0.49	0.048
1198422	Soil	2.4	36.2	8.3	70	<0.1	13.8	13.3	888	4.82	85.1	2.3	3.2	21.8	26	<0.1	0.7	<0.1	71	0.48	0.055
1198424	Soil	0.4	30.8	4.2	68	<0.1	12.9	15.3	710	4.11	4.1	0.7	0.6	6.6	34	<0.1	0.2	<0.1	92	0.42	0.056
1195501	Soil	1.4	22.8	6.9	64	<0.1	16.5	12.2	381	3.55	5.8	1.0	<0.5	9.0	27	<0.1	2.0	<0.1	60	0.37	0.041
1195502	Soil	0.8	30.4	7.5	65	<0.1	26.2	12.4	365	3.26	7.7	0.8	1.0	7.3	33	<0.1	0.6	0.1	58	0.31	0.030
1195503	Soil	1.7	54.9	10.0	146	<0.1	34.9	21.0	905	5.70	5.1	2.0	<0.5	14.0	51	<0.1	0.3	<0.1	107	0.51	0.082
1195504	Soil	0.8	28.1	9.0	83	<0.1	15.9	14.9	551	4.03	4.7	0.8	0.8	9.3	76	<0.1	0.7	<0.1	58	0.47	0.034
1195521	Soil	0.9	22.5	11.6	93	<0.1	15.7	24.1	852	6.12	3.7	1.4	2.7	2.9	32	<0.1	0.3	0.1	128	0.70	0.123
1195525	Soil	0.9	34.7	2.6	60	<0.1	8.2	22.8	1210	6.55	2.7	1.0	0.9	2.1	25	<0.1	0.3	<0.1	154	0.81	0.091
1195529	Soil	3.9	50.1	10.4	91	<0.1	30.8	12.0	497	3.99	27.4	1.9	4.3	10.5	18	0.1	1.0	0.2	61	0.25	0.026
1195530	Soil	1.5	23.7	11.8	57	<0.1	16.7	12.9	436	3.54	9.7	1.1	<0.5	12.7	13	<0.1	1.9	0.2	59	0.16	0.031
1195545	Soil	0.6	17.2	5.8	68	<0.1	15.9	13.6	594	3.23	2.9	0.6	1.5	9.4	26	<0.1	0.4	<0.1	54	0.58	0.083
1195552	Soil	0.6	20.7	7.6	74	<0.1	17.0	13.6	469	3.93	7.3	0.6	0.7	8.9	29	<0.1	0.5	0.1	54	0.29	0.047
1195553	Soil	0.8	16.0	9.3	43	<0.1	17.7	8.2	206	2.66	9.1	0.5	4.1	3.3	18	<0.1	0.5	0.2	59	0.16	0.015
1195554	Soil	0.8	19.4	10.2	75	<0.1	14.2	12.8	601	3.36	4.7	0.5	<0.5	2.9	24	0.1	0.3	0.1	57	0.29	0.076
1195576	Soil	0.7	26.0	7.4	62	<0.1	21.4	11.0	515	3.01	7.8	0.5	0.6	6.0	27	<0.1	0.6	0.1	54	0.43	0.049
1195577	Soil	0.7	29.2	8.3	54	<0.1	24.5	10.4	340	2.81	9.8	0.8	3.9	6.2	28	<0.1	0.7	0.2	57	0.40	0.028
1195578	Soil	0.8	26.1	7.6	54	<0.1	21.4	10.2	308	2.89	6.9	0.7	0.9	6.8	28	<0.1	0.9	0.2	59	0.42	0.031
1195579	Soil	1.0	22.7	7.8	55	<0.1	21.1	10.2	318	2.86	6.6	0.6	3.5	5.9	27	<0.1	0.9	0.2	61	0.39	0.030
1195580	Soil	0.6	38.6	8.1	59	0.2	24.8	11.8	422	3.06	7.7	0.6	3.9	6.3	35	<0.1	1.1	0.2	59	0.53	0.045
1195581	Soil	0.5	27.5	6.9	52	<0.1	22.6	12.1	301	2.51	5.9	0.5	2.3	4.1	32	<0.1	0.5	0.1	56	0.39	0.042
1195582	Soil	0.8	41.0	8.2	51	<0.1	27.1	11.6	329	2.72	7.3	0.6	2.2	3.9	35	<0.1	0.6	0.1	64	0.40	0.027
1195583	Soil	0.9	13.7	7.6	48	<0.1	16.2	9.9	438	2.77	7.4	0.3	<0.5	2.3	21	<0.1	0.5	0.1	63	0.25	0.044
1195584	Soil	0.8	31.9	8.2	48	<0.1	24.6	11.6	270	2.66	8.6	0.5	1.0	3.7	27	<0.1	0.5	0.1	66	0.30	0.024
1195585	Soil	0.7	28.7	7.2	54	<0.1	21.9	10.0	310	2.53	7.9	0.6	6.1	4.2	29	<0.1	0.6	0.1	60	0.43	0.057
1195586	Soil	0.8	23.1	7.6	51	<0.1	19.6	10.3	417	2.65	7.3	0.5	1.7	3.4	26	<0.1	0.5	0.2	61	0.36	0.035
1195587	Soil	0.7	32.0	4.5	50	<0.1	17.7	14.4	350	3.31	4.4	0.3	<0.5	2.5	27	<0.1	0.3	<0.1	71	0.39	0.052
1195588	Soil	0.8	32.7	6.5	58	<0.1	19.5	11.3	415	3.19	6.1	0.6	1.3	4.6	29	<0.1	0.6	0.1	63	0.40	0.035
1195589	Soil	0.9	19.9	7.1	52	<0.1	17.2	8.2	291	2.98	5.9	0.6	1.7	3.9	23	<0.1	0.5	0.1	54	0.23	0.020
1195590	Soil	0.7	22.6	9.4	50	<0.1	18.3	8.1	248	2.79	6.3	0.8	1.9	4.6	20	<0.1	0.6	0.1	61	0.22	0.010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1198421	Soil	23	16	0.94	241	0.047	<1	2.57	0.010	0.21	<0.1	0.02	5.9	0.1	<0.05	10	<0.5	<0.2
1198422	Soil	27	13	1.00	239	0.020	<1	2.55	0.010	0.16	<0.1	0.05	6.7	0.1	<0.05	12	0.6	<0.2
1198424	Soil	12	19	1.31	298	0.144	2	2.38	0.011	0.64	<0.1	<0.01	5.1	0.2	<0.05	7	<0.5	<0.2
1195501	Soil	14	24	0.89	198	0.140	<1	1.96	0.013	0.32	0.2	0.01	4.1	0.2	<0.05	7	<0.5	<0.2
1195502	Soil	20	33	0.78	210	0.139	<1	1.92	0.015	0.25	0.1	0.04	4.4	0.2	<0.05	6	0.8	<0.2
1195503	Soil	16	122	1.98	230	0.284	<1	3.03	0.012	1.41	0.2	<0.01	4.9	0.6	<0.05	13	<0.5	<0.2
1195504	Soil	18	30	0.97	273	0.218	<1	2.29	0.010	0.54	0.2	0.01	2.4	0.2	<0.05	7	0.6	<0.2
1195521	Soil	17	21	1.35	626	0.032	<1	2.98	0.015	0.14	0.1	0.03	22.4	<0.1	<0.05	10	0.9	<0.2
1195525	Soil	20	7	1.36	338	0.041	1	2.66	0.028	0.06	<0.1	0.01	18.8	<0.1	<0.05	11	1.0	<0.2
1195529	Soil	28	27	0.38	279	0.022	<1	1.47	0.008	0.09	0.2	0.02	7.4	<0.1	<0.05	4	0.8	<0.2
1195530	Soil	9	26	0.61	211	0.057	1	2.14	0.010	0.19	0.3	0.01	3.5	0.1	<0.05	7	<0.5	<0.2
1195545	Soil	16	28	0.81	211	0.111	<1	1.60	0.017	0.39	0.2	0.02	3.5	0.1	<0.05	6	<0.5	<0.2
1195552	Soil	24	28	0.89	239	0.139	<1	2.35	0.010	0.48	0.1	0.01	2.0	0.2	<0.05	7	<0.5	<0.2
1195553	Soil	11	31	0.41	198	0.054	<1	1.70	0.010	0.03	0.2	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1195554	Soil	12	26	0.84	197	0.151	<1	2.00	0.010	0.48	0.1	0.02	1.7	0.2	<0.05	7	<0.5	<0.2
1195576	Soil	15	27	0.72	280	0.111	<1	1.52	0.026	0.26	0.1	0.04	3.7	0.1	<0.05	5	<0.5	<0.2
1195577	Soil	17	34	0.58	243	0.091	1	1.48	0.021	0.12	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1195578	Soil	16	36	0.71	238	0.108	1	1.70	0.018	0.12	0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
1195579	Soil	13	34	0.72	234	0.110	<1	1.66	0.017	0.14	0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
1195580	Soil	17	33	0.79	314	0.099	2	1.64	0.024	0.14	0.2	0.05	4.3	0.1	<0.05	5	0.6	<0.2
1195581	Soil	13	42	0.70	221	0.096	<1	1.70	0.014	0.05	0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
1195582	Soil	14	42	0.59	313	0.081	<1	1.93	0.021	0.05	0.1	0.04	5.2	<0.1	<0.05	5	0.5	<0.2
1195583	Soil	7	27	0.56	286	0.095	1	1.83	0.010	0.12	0.1	<0.01	1.9	<0.1	<0.05	6	0.6	<0.2
1195584	Soil	12	40	0.57	260	0.104	<1	1.95	0.015	0.05	0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
1195585	Soil	13	35	0.57	232	0.093	1	1.46	0.031	0.07	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
1195586	Soil	13	32	0.57	298	0.093	<1	1.60	0.018	0.07	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
1195587	Soil	7	35	1.08	301	0.177	<1	2.24	0.018	0.35	0.1	0.01	2.8	0.1	<0.05	6	<0.5	<0.2
1195588	Soil	17	33	0.71	254	0.111	<1	1.85	0.017	0.10	0.2	0.04	5.4	<0.1	<0.05	6	<0.5	<0.2
1195589	Soil	13	30	0.44	226	0.091	<1	1.86	0.011	0.07	0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
1195590	Soil	18	31	0.49	238	0.083	<1	1.78	0.013	0.03	0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000307.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1195591	Soil	0.9	26.1	6.4	66	<0.1	17.6	9.9	371	3.35	5.9	0.7	1.4	3.6	21	<0.1	0.4	<0.1	67	0.32	0.032
1195592	Soil	0.9	21.1	8.0	56	<0.1	18.7	10.6	328	3.27	5.8	0.8	1.2	4.2	23	<0.1	0.5	0.1	72	0.33	0.024
1195593	Soil	1.1	28.6	5.8	56	<0.1	18.5	11.4	391	3.36	5.7	0.5	0.8	3.2	26	<0.1	0.4	<0.1	58	0.39	0.055
1195595	Soil	9.9	93.2	23.9	150	1.9	73.6	15.7	899	3.68	139.2	6.1	2.7	5.7	43	1.0	4.1	0.2	47	0.87	0.122
1195596	Soil	5.1	51.3	16.5	258	0.3	57.7	11.3	330	2.91	129.7	1.5	2.2	6.2	16	1.3	3.0	0.1	65	0.19	0.038
1197331	Soil	0.9	29.9	9.2	69	<0.1	26.9	15.7	695	3.83	6.3	1.0	2.5	8.9	31	<0.1	1.4	0.1	72	0.59	0.072
1197332	Soil	0.9	26.4	8.8	54	<0.1	25.4	12.0	537	2.89	8.5	0.6	3.3	6.0	34	<0.1	0.9	0.2	62	0.51	0.029
1194706	Soil	0.9	46.1	29.7	86	<0.1	28.2	18.9	754	4.42	5.8	2.1	2.0	20.8	51	<0.1	0.6	0.3	72	0.70	0.116
1194707	Soil	0.7	37.0	8.7	64	0.2	22.6	15.2	576	3.04	7.4	1.5	3.7	11.3	100	<0.1	0.6	<0.1	54	5.73	0.090
1194708	Soil	0.7	33.0	10.7	65	0.2	25.4	12.6	573	2.69	8.8	0.9	7.0	9.7	54	0.1	0.6	0.1	55	2.81	0.061
1194709	Soil	0.7	32.2	7.8	51	0.1	21.4	9.0	383	2.23	8.2	0.9	8.5	5.0	83	0.2	0.7	0.2	51	4.01	0.077
1194710	Soil	1.0	36.4	9.6	90	<0.1	26.2	20.8	1097	4.37	7.4	2.3	3.9	30.5	38	<0.1	0.6	<0.1	81	1.25	0.103
1194711	Soil	0.8	31.8	8.8	52	<0.1	28.3	11.5	425	2.64	10.4	0.9	11.8	8.1	30	<0.1	0.6	0.1	58	0.49	0.070
1194712	Soil	1.2	35.1	23.3	80	<0.1	33.5	17.1	702	4.01	9.5	1.7	2.9	19.0	35	<0.1	0.6	0.2	85	0.60	0.052
1194713	Soil	0.4	35.8	7.5	72	<0.1	42.3	19.8	729	4.05	5.7	2.6	2.1	27.2	42	<0.1	0.5	<0.1	70	0.67	0.079
1194714	Soil	0.6	18.7	8.2	73	<0.1	20.7	19.0	730	4.12	4.8	2.0	<0.5	31.0	36	<0.1	0.5	<0.1	70	0.56	0.090
1194715	Soil	0.5	44.6	5.7	110	<0.1	82.6	28.3	1031	5.37	3.2	1.9	1.5	22.8	73	0.1	0.5	<0.1	107	4.65	0.115
1194716	Soil	0.5	40.8	6.9	74	<0.1	58.8	21.9	786	4.34	6.3	0.9	2.3	11.9	41	<0.1	0.3	0.1	72	1.22	0.098
1194717	Soil	0.9	26.1	7.2	46	0.1	24.8	9.6	432	2.27	7.7	0.8	10.2	5.7	67	0.2	0.1	0.1	40	2.99	0.078
1194718	Soil	0.9	34.6	12.3	49	0.1	23.7	10.0	527	2.55	7.8	0.5	2.1	4.4	29	<0.1	0.4	0.3	42	1.11	0.048
1194719	Soil	0.8	41.4	6.9	50	<0.1	29.9	11.1	378	2.53	10.7	0.9	6.0	4.5	28	<0.1	0.5	0.1	56	0.71	0.041
1194720	Soil	1.2	20.6	9.6	72	<0.1	22.5	17.3	615	3.98	6.7	2.0	0.7	25.1	45	<0.1	0.4	<0.1	63	0.60	0.069
1194721	Soil	0.6	16.4	7.6	74	<0.1	20.4	15.4	681	4.12	7.5	2.1	0.5	33.9	35	<0.1	0.3	<0.1	61	0.52	0.061
1194722	Soil	0.8	20.4	9.9	76	<0.1	28.4	18.1	710	4.43	7.7	3.0	<0.5	24.1	38	<0.1	0.4	<0.1	78	0.69	0.050
1194723	Soil	0.8	31.4	7.7	49	0.1	24.8	10.2	497	2.40	8.8	0.7	11.7	3.8	39	0.1	0.3	0.1	47	1.45	0.068
1194724	Soil	1.0	27.9	8.5	62	0.1	26.5	13.9	571	2.98	7.8	1.4	1.3	14.0	49	<0.1	0.3	<0.1	54	1.29	0.073
1194725	Soil	0.6	16.4	7.6	74	<0.1	22.5	19.0	664	3.72	5.4	2.3	1.2	33.7	50	<0.1	0.1	<0.1	59	0.76	0.095
1194726	Soil	0.7	32.4	7.8	71	<0.1	23.1	20.5	745	4.06	7.9	1.3	1.2	16.8	37	<0.1	0.2	<0.1	71	0.66	0.075
1194727	Soil	0.8	23.0	8.1	55	<0.1	21.8	10.7	472	2.59	8.9	0.9	1.0	6.0	38	0.1	0.2	0.3	52	1.23	0.058
1194728	Soil	1.0	36.8	11.1	59	0.1	22.0	12.1	584	2.77	7.0	1.8	1.7	7.6	44	0.1	0.3	0.4	47	1.96	0.062

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Project: HEN  
 Report Date: July 19, 2011

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WHI11000307.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1195591	Soil	12	31	0.72	244	0.104	<1	1.93	0.015	0.07	0.1	<0.01	4.7	<0.1	<0.05	7	<0.5	<0.2
1195592	Soil	14	29	0.65	249	0.103	<1	1.96	0.015	0.04	0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
1195593	Soil	10	32	0.77	216	0.093	<1	2.02	0.014	0.11	0.4	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
1195595	Soil	66	26	0.31	660	0.012	2	1.36	0.009	0.08	<0.1	0.16	4.7	0.1	0.07	3	2.4	<0.2
1195596	Soil	16	34	0.33	391	0.030	2	1.52	0.010	0.06	0.2	0.03	3.8	0.1	<0.05	4	0.7	<0.2
1197331	Soil	23	47	1.13	306	0.139	1	2.15	0.016	0.45	0.2	0.04	5.7	0.2	<0.05	7	<0.5	<0.2
1197332	Soil	16	34	0.59	303	0.096	1	1.74	0.020	0.12	0.2	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
1194706	Soil	35	60	1.51	159	0.152	<1	2.07	0.020	0.21	0.3	0.08	4.9	0.2	<0.05	10	<0.5	<0.2
1194707	Soil	27	34	1.14	242	0.126	2	1.57	0.021	0.33	0.3	0.06	2.6	0.3	0.06	6	<0.5	<0.2
1194708	Soil	23	34	0.84	218	0.100	<1	1.45	0.022	0.20	0.2	0.08	3.4	0.2	<0.05	5	<0.5	<0.2
1194709	Soil	17	25	0.73	207	0.082	2	1.17	0.025	0.09	0.3	0.05	2.8	<0.1	0.06	4	<0.5	<0.2
1194710	Soil	51	52	1.55	263	0.177	<1	2.28	0.018	0.59	0.2	0.09	5.5	0.5	<0.05	10	<0.5	<0.2
1194711	Soil	21	34	0.64	177	0.086	2	1.32	0.022	0.13	0.2	0.05	3.6	0.1	<0.05	4	<0.5	<0.2
1194712	Soil	33	73	1.32	205	0.162	<1	2.11	0.017	0.52	0.2	0.04	5.7	0.3	<0.05	9	<0.5	<0.2
1194713	Soil	38	117	1.64	204	0.223	2	2.29	0.014	0.71	0.2	0.03	4.2	0.6	<0.05	9	<0.5	<0.2
1194714	Soil	25	50	1.43	156	0.241	<1	2.46	0.014	1.16	0.2	0.02	3.5	0.8	<0.05	9	<0.5	<0.2
1194715	Soil	27	196	2.88	267	0.256	<1	3.07	0.021	1.15	0.1	0.07	5.8	0.8	0.06	11	<0.5	<0.2
1194716	Soil	22	179	1.94	176	0.205	1	2.35	0.021	0.77	0.2	0.04	4.3	0.5	<0.05	8	<0.5	<0.2
1194717	Soil	14	23	0.72	244	0.069	2	1.01	0.029	0.08	0.3	0.04	2.6	0.1	0.06	3	<0.5	<0.2
1194718	Soil	17	28	0.57	261	0.055	2	1.36	0.019	0.10	0.2	0.04	3.1	<0.1	0.06	4	<0.5	<0.2
1194719	Soil	17	31	0.66	137	0.082	2	1.28	0.029	0.06	0.2	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
1194720	Soil	22	50	1.29	147	0.148	1	1.93	0.014	0.12	0.2	0.02	5.2	<0.1	<0.05	10	<0.5	<0.2
1194721	Soil	32	37	1.21	194	0.145	<1	2.00	0.011	0.33	0.2	0.02	4.6	0.2	<0.05	10	<0.5	<0.2
1194722	Soil	28	86	1.54	151	0.235	2	2.21	0.015	0.54	0.2	0.03	5.5	0.3	<0.05	10	<0.5	<0.2
1194723	Soil	17	34	0.64	205	0.060	2	1.17	0.022	0.10	0.2	0.05	2.6	<0.1	<0.05	4	<0.5	<0.2
1194724	Soil	32	41	1.01	185	0.119	2	1.54	0.038	0.20	0.2	0.06	2.7	0.2	<0.05	6	<0.5	<0.2
1194725	Soil	33	51	1.59	101	0.213	<1	1.94	0.021	0.64	0.3	0.04	2.4	0.7	<0.05	9	<0.5	<0.2
1194726	Soil	26	41	1.42	157	0.193	<1	2.07	0.021	0.59	0.2	0.04	3.4	0.4	<0.05	7	<0.5	<0.2
1194727	Soil	16	37	0.75	173	0.086	2	1.31	0.022	0.14	0.2	0.04	2.8	0.1	<0.05	5	<0.5	<0.2
1194728	Soil	26	37	0.80	227	0.062	2	1.42	0.022	0.15	0.2	0.06	3.4	0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1194729	Soil		0.8	35.9	9.5	53	0.1	26.9	11.4	466	2.55	8.9	0.7	2.4	4.3	41	0.1	0.3	0.3	51	1.35	0.057
1194730	Soil		0.5	28.9	9.3	56	<0.1	27.1	11.0	439	2.59	9.9	0.8	2.7	4.9	42	0.2	0.4	0.4	54	1.71	0.051
1194731	Soil		0.9	27.8	8.5	56	0.1	23.7	10.0	458	2.44	8.9	0.9	2.4	4.9	39	0.1	0.3	0.3	48	1.28	0.050
1194732	Soil		1.1	26.9	9.5	64	0.1	26.3	13.1	569	2.90	11.4	1.2	2.2	7.7	32	0.1	0.4	0.2	61	0.80	0.057
1194733	Soil		2.1	30.4	15.5	74	0.1	27.4	14.7	665	3.29	9.1	1.6	2.6	18.1	34	0.1	0.2	0.3	63	0.77	0.078
1194734	Soil		0.6	28.4	9.0	60	0.1	25.0	10.5	433	2.52	12.5	0.8	2.2	4.2	42	0.2	0.5	0.2	56	0.91	0.057
1194735	Soil		0.8	28.6	8.0	58	0.1	24.8	10.7	433	2.58	11.6	1.0	1.9	4.1	43	0.2	0.5	0.2	55	0.93	0.068
1194801	Soil		0.9	36.9	7.3	44	0.2	21.9	8.4	337	2.10	7.2	0.8	3.7	6.4	91	0.1	<0.1	0.2	33	6.43	0.047
1194802	Soil		0.9	35.1	8.0	48	0.1	21.8	8.7	345	2.33	6.9	0.8	3.2	8.7	73	<0.1	<0.1	0.2	33	4.49	0.039
1194803	Soil		1.2	33.7	9.8	77	<0.1	28.3	14.5	738	3.62	4.4	2.1	3.3	37.1	28	<0.1	0.3	0.1	53	0.52	0.066
1194804	Soil		1.2	31.8	11.0	86	<0.1	23.6	15.1	783	3.97	6.5	2.4	3.4	43.5	30	<0.1	0.3	0.1	56	0.52	0.076
1196764	Soil		0.7	23.9	12.5	57	0.2	22.2	9.0	561	3.12	10.7	0.5	3.0	5.1	32	<0.1	0.7	0.1	43	0.51	0.033
1197552	Soil		1.0	17.2	9.5	68	<0.1	18.1	8.9	773	3.58	10.9	0.6	1.1	4.1	33	0.1	0.5	0.1	49	0.63	0.031
1197553	Soil		0.8	21.8	9.7	48	0.2	25.1	9.6	322	2.79	13.1	0.6	1.6	5.2	24	<0.1	0.6	0.2	56	0.39	0.017
1197563	Soil		0.6	25.6	19.9	71	0.1	20.4	14.7	489	3.66	9.5	0.4	0.7	3.5	28	<0.1	0.2	0.2	98	0.59	0.059
1197564	Soil		0.9	17.3	17.3	67	<0.1	13.0	7.9	558	2.93	8.1	0.4	1.4	3.3	28	<0.1	0.2	0.2	49	0.43	0.027
1197565	Soil		0.7	35.3	20.7	60	0.1	29.3	10.3	350	3.11	15.4	0.8	3.5	5.5	28	0.1	0.6	0.2	68	0.44	0.036
1197566	Soil		0.9	17.6	10.5	71	0.1	15.6	9.6	685	2.85	10.3	0.6	0.8	4.2	33	0.1	0.3	0.1	50	0.51	0.029
1197567	Soil		0.7	22.0	15.1	49	0.1	24.6	10.7	494	2.74	11.7	0.4	1.6	4.2	31	<0.1	0.4	0.2	57	0.46	0.025
1197571	Soil		0.7	19.7	10.6	92	<0.1	20.1	11.5	986	2.97	7.4	0.6	0.7	4.0	39	0.1	0.3	0.2	48	0.62	0.089
1197572	Soil		0.7	18.3	10.4	58	<0.1	19.4	9.2	587	2.75	10.6	0.4	1.9	4.2	31	<0.1	0.3	0.1	51	0.55	0.032
1197575	Soil		0.7	26.1	14.0	57	0.1	27.1	10.5	378	2.95	14.9	0.5	1.0	4.7	24	<0.1	0.5	0.2	62	0.38	0.024
1197576	Soil		0.8	19.7	14.9	56	<0.1	16.6	8.9	587	2.91	5.6	0.3	<0.5	3.6	31	<0.1	0.3	0.2	52	0.48	0.021
1197577	Soil		0.8	30.2	8.3	58	0.1	25.3	8.8	540	2.65	6.1	0.6	2.7	3.9	57	0.1	0.4	0.2	36	2.18	0.059
1197581	Soil		0.7	23.3	8.9	55	<0.1	21.5	10.2	468	2.77	8.1	0.4	2.6	3.7	26	<0.1	0.4	0.1	57	0.43	0.026
1197704	Soil		0.9	19.9	8.7	63	<0.1	22.2	8.8	720	2.62	8.2	0.5	1.7	4.5	32	0.2	0.5	0.1	43	0.52	0.045
1198451	Soil		0.7	28.0	7.7	45	<0.1	27.7	9.5	326	2.70	11.4	0.6	6.5	4.8	31	<0.1	0.6	0.1	52	0.43	0.016
1198452	Soil		0.8	12.6	7.6	41	<0.1	15.5	8.1	638	2.43	5.6	0.3	<0.5	3.5	28	<0.1	0.3	0.1	47	0.51	0.016
1198453	Soil		1.0	22.2	8.1	43	<0.1	22.8	9.2	474	2.62	9.4	0.4	2.9	4.1	28	<0.1	0.5	0.2	51	0.50	0.020
1198454	Soil		0.8	22.3	8.5	49	<0.1	23.6	10.2	490	2.79	11.2	0.4	1.5	4.1	28	<0.1	0.5	0.2	56	0.46	0.023

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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**Project:** HEN  
**Report Date:** July 19, 2011

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
			ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
			1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1194729	Soil		23	37	0.68	246	0.083	2	1.41	0.024	0.13	0.2	0.05	2.8	0.1	<0.05	5	<0.5	<0.2
1194730	Soil		17	39	0.70	285	0.076	2	1.54	0.027	0.13	0.2	0.04	3.7	0.1	<0.05	5	0.6	<0.2
1194731	Soil		15	28	0.59	287	0.075	1	1.35	0.026	0.10	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
1194732	Soil		17	42	0.77	239	0.097	2	1.68	0.028	0.16	0.2	0.03	3.7	0.1	<0.05	5	<0.5	<0.2
1194733	Soil		29	57	1.10	218	0.146	1	1.86	0.023	0.44	0.4	0.04	3.7	0.4	<0.05	7	<0.5	<0.2
1194734	Soil		13	28	0.59	326	0.075	1	1.44	0.032	0.07	0.2	0.04	3.4	<0.1	<0.05	5	0.5	<0.2
1194735	Soil		13	29	0.57	316	0.072	2	1.35	0.028	0.06	0.2	0.06	3.3	<0.1	<0.05	4	0.7	<0.2
1194801	Soil		17	29	0.60	243	0.068	1	1.16	0.019	0.11	0.3	0.08	2.5	0.1	0.07	4	0.7	<0.2
1194802	Soil		19	32	0.60	222	0.079	<1	1.31	0.017	0.13	0.2	0.06	2.7	0.1	0.09	4	<0.5	<0.2
1194803	Soil		58	64	1.13	164	0.107	<1	1.89	0.011	0.45	0.3	0.05	3.9	0.4	<0.05	9	<0.5	<0.2
1194804	Soil		65	53	1.10	169	0.108	<1	1.96	0.012	0.55	0.4	0.05	3.5	0.4	<0.05	10	<0.5	<0.2
1196764	Soil		20	31	0.55	579	0.043	2	1.70	0.015	0.11	0.1	0.04	6.4	<0.1	<0.05	6	<0.5	<0.2
1197552	Soil		16	31	0.53	856	0.045	1	2.13	0.014	0.14	<0.1	0.02	7.2	<0.1	<0.05	8	<0.5	<0.2
1197553	Soil		22	34	0.49	593	0.051	<1	1.76	0.013	0.08	0.1	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2
1197563	Soil		10	31	0.83	301	0.136	2	1.82	0.022	0.34	<0.1	<0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
1197564	Soil		9	24	0.51	567	0.072	1	1.73	0.014	0.30	<0.1	0.01	4.7	<0.1	<0.05	6	<0.5	<0.2
1197565	Soil		20	40	0.57	256	0.093	1	1.58	0.019	0.08	0.2	0.04	5.4	<0.1	<0.05	5	<0.5	<0.2
1197566	Soil		18	29	0.53	1484	0.047	2	2.16	0.011	0.21	<0.1	0.02	4.6	<0.1	<0.05	7	<0.5	<0.2
1197567	Soil		13	34	0.59	451	0.078	2	1.77	0.019	0.16	0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
1197571	Soil		14	32	0.61	779	0.074	3	2.13	0.018	0.22	<0.1	<0.01	5.2	<0.1	<0.05	7	<0.5	<0.2
1197572	Soil		13	33	0.52	977	0.057	1	1.93	0.015	0.18	0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
1197575	Soil		17	36	0.56	334	0.095	2	1.69	0.017	0.21	0.2	0.03	5.2	<0.1	<0.05	5	<0.5	<0.2
1197576	Soil		12	29	0.52	1244	0.054	3	1.70	0.014	0.18	0.1	0.02	5.7	<0.1	0.07	6	<0.5	<0.2
1197577	Soil		17	25	0.60	549	0.048	3	1.34	0.021	0.10	0.2	0.03	4.7	<0.1	0.08	5	<0.5	<0.2
1197581	Soil		12	30	0.57	332	0.099	2	1.62	0.020	0.20	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1197704	Soil		15	28	0.40	693	0.050	3	1.44	0.015	0.16	0.2	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
1198451	Soil		18	30	0.50	302	0.073	2	1.28	0.020	0.09	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
1198452	Soil		10	30	0.41	459	0.059	3	1.54	0.015	0.16	0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
1198453	Soil		15	32	0.48	379	0.068	2	1.52	0.019	0.11	0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
1198454	Soil		14	35	0.54	386	0.074	3	1.67	0.018	0.13	0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2



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Project: HEN  
 Report Date: July 19, 2011

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1198455	Soil	0.8	14.3	8.0	44	<0.1	15.7	7.5	442	2.48	7.4	0.4	3.3	4.1	26	<0.1	0.4	0.1	38	0.52	0.021
1198456	Soil	0.6	25.1	15.6	50	0.1	26.0	9.9	339	2.65	10.9	0.5	4.4	4.6	27	0.1	0.5	0.2	52	0.48	0.034
1198457	Soil	0.7	36.8	9.8	58	0.1	35.3	11.5	424	2.74	12.8	0.6	5.0	5.2	29	<0.1	0.8	0.2	51	0.44	0.057
1198458	Soil	0.8	22.1	10.8	55	0.1	23.4	9.8	441	2.66	10.5	0.5	1.7	4.4	30	0.1	0.5	0.2	51	0.50	0.031
1198459	Soil	0.9	29.1	10.5	53	0.2	34.8	11.1	407	2.77	12.7	0.6	7.8	5.7	27	<0.1	0.7	0.2	53	0.41	0.034
1198460	Soil	0.8	24.1	11.8	62	<0.1	22.8	10.0	547	2.61	10.3	0.5	0.9	4.2	29	0.1	0.5	0.2	49	0.55	0.032
1198461	Soil	0.9	27.0	16.2	81	<0.1	23.9	10.7	750	2.89	9.9	0.6	2.0	4.6	32	0.2	0.5	0.2	48	0.50	0.043
1198462	Soil	0.9	28.1	14.0	83	0.2	28.2	10.9	719	2.81	11.1	0.7	2.5	4.6	35	0.3	0.6	0.3	52	0.57	0.066
1198463	Soil	0.7	32.4	11.0	71	0.2	28.3	11.1	512	2.80	12.8	0.6	3.9	4.8	33	0.1	0.6	0.2	53	0.62	0.053
1198464	Soil	1.0	23.4	9.8	86	<0.1	17.8	10.4	601	3.23	8.5	0.6	2.2	4.5	33	0.2	0.4	0.2	49	0.59	0.039
1198485	Soil	1.3	47.9	8.4	82	0.1	23.6	13.5	588	3.87	8.3	0.7	2.8	3.4	32	<0.1	0.4	0.1	91	0.51	0.039
1035412	Soil	0.3	28.6	8.9	112	<0.1	13.1	24.9	1253	5.77	3.1	0.5	<0.5	5.3	33	<0.1	<0.1	<0.1	159	0.54	0.074
1035426	Soil	0.3	28.9	5.2	116	<0.1	9.8	16.0	911	4.59	5.1	1.2	<0.5	8.6	31	<0.1	0.1	<0.1	115	0.48	0.048
1035427	Soil	0.3	18.0	5.0	89	<0.1	7.7	23.9	1222	5.58	2.4	1.9	<0.5	16.0	28	<0.1	<0.1	<0.1	138	0.49	0.077
1035428	Soil	0.3	23.3	4.2	104	<0.1	13.4	23.6	1011	5.23	3.2	0.6	0.6	7.1	32	<0.1	<0.1	<0.1	126	0.53	0.073
1035429	Soil	0.3	29.2	5.6	78	<0.1	10.5	14.4	749	4.31	4.7	1.4	0.7	10.0	41	<0.1	<0.1	<0.1	104	0.50	0.038
1035430	Soil	0.5	13.2	4.7	83	<0.1	11.0	19.9	912	4.78	5.1	0.5	<0.5	6.3	30	<0.1	0.1	<0.1	101	0.41	0.053
1035431	Soil	0.4	57.1	4.4	65	<0.1	12.5	16.6	724	4.24	5.3	0.7	<0.5	8.4	14	<0.1	0.2	<0.1	100	0.30	0.049
1035432	Soil	0.8	21.4	8.3	78	<0.1	19.6	11.9	473	3.20	8.3	0.9	1.8	7.5	22	<0.1	0.5	0.1	70	0.20	0.018
1035433	Soil	0.7	30.9	5.6	73	<0.1	8.5	14.3	769	4.71	5.5	1.1	<0.5	10.4	12	<0.1	0.2	<0.1	113	0.23	0.054
1035434	Soil	0.6	14.4	3.7	82	<0.1	9.4	16.5	955	4.89	5.6	0.6	<0.5	12.7	17	<0.1	0.1	0.1	129	0.24	0.047
1035435	Soil	0.4	30.1	4.6	88	<0.1	11.4	20.8	977	5.53	4.6	0.8	0.7	10.2	26	<0.1	0.1	0.1	125	0.40	0.032
1035436	Soil	0.8	24.9	8.4	60	<0.1	20.2	12.6	436	3.54	8.8	1.1	1.8	7.5	30	<0.1	0.4	0.1	72	0.26	0.017
1035437	Soil	0.6	17.7	7.0	71	<0.1	14.6	15.1	638	4.05	6.5	0.8	0.6	8.0	30	<0.1	0.3	<0.1	85	0.28	0.017
1035438	Soil	0.4	33.0	5.1	95	<0.1	16.1	21.2	932	4.84	2.7	0.7	<0.5	7.1	35	<0.1	<0.1	<0.1	115	0.57	0.076
1035439	Soil	0.6	17.7	8.0	58	<0.1	16.5	11.4	457	3.28	8.1	0.9	1.0	16.4	18	<0.1	0.4	0.1	56	0.18	0.016
1035440	Soil	0.5	14.8	5.8	68	<0.1	11.4	9.6	483	2.82	4.8	1.7	0.6	23.2	30	<0.1	0.2	<0.1	40	0.36	0.029
1035441	Soil	0.4	23.8	20.6	86	<0.1	9.3	12.0	778	3.56	3.1	2.6	2.1	37.7	35	<0.1	0.3	0.3	52	0.35	0.042
1035442	Soil	0.3	11.5	12.0	62	<0.1	5.5	8.2	902	2.87	1.8	2.7	1.0	15.7	28	<0.1	0.5	<0.1	29	0.38	0.054
1035443	Soil	0.3	13.0	8.9	84	<0.1	11.0	15.6	563	4.86	2.6	1.2	1.4	12.3	27	0.1	0.2	<0.1	95	0.36	0.046

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1198455	Soil	16	26	0.37	609	0.036	2	1.41	0.012	0.14	0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
1198456	Soil	17	29	0.51	546	0.050	1	1.50	0.017	0.08	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
1198457	Soil	18	32	0.56	308	0.069	2	1.34	0.021	0.10	0.2	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
1198458	Soil	18	30	0.53	817	0.052	2	1.67	0.017	0.12	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
1198459	Soil	21	34	0.54	458	0.073	3	1.48	0.018	0.16	0.2	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
1198460	Soil	18	29	0.56	877	0.043	2	1.68	0.015	0.16	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
1198461	Soil	23	30	0.61	1010	0.051	3	1.74	0.017	0.21	0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
1198462	Soil	19	29	0.61	933	0.056	4	1.58	0.016	0.16	0.2	0.04	4.5	0.1	0.05	5	<0.5	<0.2
1198463	Soil	18	29	0.66	614	0.055	3	1.62	0.018	0.11	0.2	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
1198464	Soil	15	29	0.53	837	0.047	2	1.80	0.013	0.20	0.1	0.02	5.0	<0.1	0.06	6	<0.5	<0.2
1198485	Soil	13	30	1.10	292	0.180	1	2.03	0.024	0.45	<0.1	0.04	6.1	0.2	<0.05	6	<0.5	<0.2
1035412	Soil	14	30	2.72	435	0.278	<1	3.88	0.016	1.57	<0.1	<0.01	5.7	0.5	<0.05	11	<0.5	<0.2
1035426	Soil	22	17	1.56	271	0.278	1	2.60	0.017	0.92	<0.1	<0.01	5.5	0.3	0.05	8	<0.5	<0.2
1035427	Soil	27	13	1.39	267	0.130	<1	2.90	0.020	0.78	<0.1	<0.01	8.4	0.2	<0.05	12	<0.5	<0.2
1035428	Soil	14	29	2.16	445	0.206	1	3.20	0.013	1.10	<0.1	0.01	6.8	0.3	<0.05	9	<0.5	<0.2
1035429	Soil	28	20	1.51	196	0.162	1	2.81	0.015	0.82	<0.1	0.01	6.2	0.3	0.06	9	<0.5	<0.2
1035430	Soil	17	19	1.63	337	0.230	1	3.12	0.016	1.01	<0.1	0.02	3.5	0.3	<0.05	8	<0.5	<0.2
1035431	Soil	14	21	1.33	168	0.204	<1	2.75	0.020	0.72	<0.1	0.03	4.2	0.4	<0.05	8	<0.5	<0.2
1035432	Soil	13	34	0.79	201	0.127	2	2.29	0.012	0.11	0.1	0.02	3.5	0.1	<0.05	7	<0.5	<0.2
1035433	Soil	28	19	1.44	196	0.160	2	3.15	0.012	0.85	<0.1	0.02	9.9	0.4	<0.05	10	<0.5	<0.2
1035434	Soil	12	22	1.74	233	0.273	2	3.03	0.015	1.05	<0.1	0.01	6.7	0.4	<0.05	10	<0.5	<0.2
1035435	Soil	26	17	1.82	287	0.259	1	3.48	0.013	0.97	<0.1	0.01	4.7	0.5	<0.05	9	<0.5	<0.2
1035436	Soil	21	33	0.81	248	0.134	2	2.33	0.013	0.13	<0.1	0.04	4.8	0.1	<0.05	7	<0.5	<0.2
1035437	Soil	26	24	1.22	224	0.210	1	2.81	0.011	0.51	<0.1	0.02	3.3	0.3	<0.05	7	<0.5	<0.2
1035438	Soil	21	22	1.80	344	0.211	1	2.69	0.018	0.82	<0.1	0.01	5.4	0.3	<0.05	8	<0.5	<0.2
1035439	Soil	25	32	0.61	186	0.099	1	2.30	0.011	0.17	<0.1	0.03	3.8	0.2	<0.05	6	<0.5	<0.2
1035440	Soil	40	16	0.65	187	0.147	<1	2.06	0.015	0.36	<0.1	0.02	3.1	0.3	<0.05	6	<0.5	<0.2
1035441	Soil	87	12	0.71	242	0.127	<1	2.11	0.010	0.42	<0.1	0.01	4.1	0.3	<0.05	7	<0.5	<0.2
1035442	Soil	55	5	0.55	184	0.024	1	1.50	0.007	0.25	<0.1	0.02	3.9	0.2	<0.05	5	<0.5	<0.2
1035443	Soil	29	22	1.13	294	0.089	<1	2.68	0.010	0.68	<0.1	0.01	8.3	0.3	<0.05	8	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1035444	Soil	0.2	9.4	5.1	67	<0.1	5.4	10.6	988	3.17	4.7	0.9	1.3	20.0	56	<0.1	0.4	<0.1	44	0.69	0.057
1035445	Soil	0.6	9.1	9.8	49	<0.1	7.2	10.9	1039	2.82	3.1	1.7	1.6	14.6	19	<0.1	0.9	<0.1	26	0.18	0.034
1035446	Soil	0.9	12.7	7.4	69	<0.1	10.2	10.9	566	3.33	7.1	0.8	<0.5	8.2	21	<0.1	0.8	0.1	50	0.22	0.045
1035447	Soil	0.5	21.2	7.7	71	<0.1	14.5	12.6	485	3.08	6.2	1.2	5.8	11.1	29	<0.1	0.5	<0.1	53	0.30	0.039
1035448	Soil	0.6	15.0	9.0	32	<0.1	7.0	4.9	380	1.65	3.3	1.3	1.5	16.2	21	<0.1	0.5	<0.1	19	0.15	0.008
1035449	Soil	1.4	25.6	9.3	67	<0.1	12.2	10.7	617	3.46	5.9	2.3	1.2	21.9	11	<0.1	0.7	0.3	53	0.08	0.024
1192025	Soil	0.6	22.7	8.1	55	<0.1	20.3	9.8	326	2.77	9.6	1.2	4.7	7.5	24	<0.1	0.6	0.2	58	0.25	0.027
1192027	Soil	0.6	13.1	5.6	71	<0.1	11.3	11.2	672	3.18	3.7	1.2	1.1	20.9	26	<0.1	0.3	<0.1	51	0.31	0.036
1192226	Soil	1.0	23.9	8.3	53	<0.1	16.1	8.8	337	2.76	8.0	0.9	6.2	10.8	25	<0.1	0.5	0.1	52	0.25	0.015
1192228	Soil	1.7	18.2	11.2	54	<0.1	20.2	13.2	519	3.07	10.6	0.7	1.5	5.8	13	0.1	0.7	0.2	61	0.11	0.036
1192307	Soil	0.2	10.4	7.7	90	<0.1	10.1	17.8	717	5.25	1.8	1.3	0.7	13.8	32	<0.1	0.2	<0.1	100	0.43	0.065
1192308	Soil	0.3	5.0	4.0	85	<0.1	6.1	19.7	901	4.69	1.2	1.2	<0.5	9.6	22	<0.1	0.2	<0.1	115	0.38	0.063
1192309	Soil	0.8	16.5	9.8	44	<0.1	14.5	8.7	462	2.57	6.7	1.6	3.6	20.0	18	<0.1	0.7	0.1	47	0.20	0.017
1194781	Soil	0.7	17.0	5.4	73	<0.1	13.8	17.5	966	4.04	5.3	0.5	1.5	4.8	29	<0.1	0.3	<0.1	93	0.40	0.057
1194901	Soil	0.6	15.6	7.0	68	<0.1	15.0	14.2	601	3.61	5.4	0.3	1.2	3.4	35	<0.1	0.3	<0.1	83	0.32	0.035
1194902	Soil	0.4	58.1	3.6	72	<0.1	16.1	20.6	696	5.01	6.0	0.6	<0.5	3.2	57	<0.1	0.3	<0.1	120	0.49	0.057
1194903	Soil	0.5	29.8	5.7	74	<0.1	20.3	15.2	601	3.68	7.6	0.8	4.6	5.6	34	<0.1	0.5	0.1	88	0.42	0.047
1194904	Soil	0.6	14.5	4.8	52	<0.1	14.7	13.1	512	3.44	5.6	0.8	1.0	5.3	29	<0.1	0.3	<0.1	90	0.36	0.040
1194905	Soil	0.6	30.0	6.1	61	<0.1	19.5	12.2	558	3.37	6.9	1.0	3.4	6.7	31	<0.1	0.5	0.1	80	0.39	0.039
1194906	Soil	0.5	24.0	7.4	53	0.1	16.3	10.6	750	2.89	7.0	1.1	2.1	5.0	34	<0.1	0.4	0.1	63	0.51	0.062
1195522	Soil	0.5	24.8	8.0	70	<0.1	14.6	11.1	472	3.62	6.6	1.1	1.0	9.3	24	0.1	0.6	<0.1	59	0.27	0.045
1195523	Soil	0.4	20.3	5.1	78	<0.1	15.8	14.7	605	3.70	7.5	1.1	2.0	8.9	48	<0.1	0.4	<0.1	68	0.37	0.063
1195524	Soil	0.7	10.3	8.4	56	<0.1	14.8	8.2	416	2.48	6.5	0.6	0.8	6.7	19	<0.1	0.6	0.1	46	0.23	0.046
1195531	Soil	0.6	25.7	13.6	76	<0.1	17.2	12.6	642	4.22	6.2	1.5	3.5	15.7	49	<0.1	0.6	0.2	68	0.53	0.029
1195532	Soil	0.8	40.2	17.9	111	0.2	27.6	10.8	482	2.76	10.6	0.6	4.7	4.6	35	0.4	0.6	0.2	56	0.60	0.070
1195547	Soil	0.6	28.0	16.3	97	0.1	21.6	10.7	568	2.67	8.7	1.3	3.2	4.6	35	0.2	0.6	0.2	56	0.59	0.068
1195548	Soil	1.3	17.8	8.0	51	<0.1	18.4	10.1	484	2.79	5.8	2.3	1.5	5.5	37	0.2	0.4	0.1	59	0.71	0.023
1195550	Soil	0.8	47.1	8.4	56	<0.1	22.1	12.0	540	3.21	8.4	0.7	1.4	5.7	32	<0.1	0.5	0.1	75	0.44	0.032
1195551	Soil	4.3	19.1	12.5	105	<0.1	16.4	15.1	657	3.91	7.9	1.0	1.0	6.1	30	<0.1	0.6	<0.1	79	0.38	0.059
1195567	Soil	0.9	18.0	7.6	52	0.1	16.5	9.0	325	2.65	13.8	1.0	1.9	3.9	34	0.2	0.4	0.1	56	0.66	0.047

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1035444	Soil	38	6	1.00	199	0.080	<1	2.29	0.008	0.48	<0.1	0.03	2.7	0.3	<0.05	8	<0.5	<0.2
1035445	Soil	22	6	0.23	245	0.022	2	0.86	0.006	0.28	<0.1	0.06	4.2	0.2	<0.05	3	<0.5	<0.2
1035446	Soil	6	19	0.58	223	0.020	<1	1.98	0.006	0.07	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
1035447	Soil	25	23	0.60	253	0.117	1	1.80	0.010	0.21	<0.1	0.03	3.9	0.2	<0.05	5	<0.5	<0.2
1035448	Soil	15	11	0.15	311	0.007	1	0.81	0.006	0.11	<0.1	0.02	3.7	<0.1	<0.05	2	<0.5	<0.2
1035449	Soil	11	21	0.32	178	0.048	<1	1.48	0.007	0.20	0.1	0.03	4.0	0.2	<0.05	4	<0.5	<0.2
1192025	Soil	21	34	0.48	242	0.077	<1	1.51	0.010	0.07	0.1	0.04	5.8	<0.1	<0.05	5	<0.5	<0.2
1192027	Soil	43	17	0.77	237	0.120	<1	2.08	0.009	0.45	0.1	0.01	3.4	0.3	<0.05	7	<0.5	<0.2
1192226	Soil	26	28	0.46	204	0.057	<1	1.81	0.012	0.06	0.8	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1192228	Soil	8	36	0.44	179	0.044	<1	2.12	0.008	0.05	0.2	0.03	2.3	0.1	<0.05	6	<0.5	<0.2
1192307	Soil	31	21	1.28	316	0.102	<1	2.71	0.011	0.81	<0.1	<0.01	8.5	0.3	<0.05	9	<0.5	<0.2
1192308	Soil	12	13	1.39	185	0.221	<1	2.69	0.017	0.88	<0.1	<0.01	5.3	0.3	<0.05	9	<0.5	<0.2
1192309	Soil	58	25	0.38	189	0.042	<1	1.48	0.009	0.06	<0.1	0.04	5.2	0.1	<0.05	5	<0.5	<0.2
1194781	Soil	8	21	1.29	298	0.217	<1	2.32	0.010	0.82	<0.1	0.01	2.3	0.2	<0.05	7	<0.5	<0.2
1194901	Soil	7	23	1.06	234	0.164	<1	2.28	0.010	0.48	<0.1	0.01	1.8	0.2	<0.05	7	<0.5	<0.2
1194902	Soil	12	19	1.69	151	0.325	1	2.97	0.008	0.76	0.1	<0.01	3.4	0.3	<0.05	9	<0.5	<0.2
1194903	Soil	17	27	1.16	161	0.187	1	1.97	0.020	0.34	0.2	0.04	3.7	0.2	<0.05	6	<0.5	<0.2
1194904	Soil	9	23	1.00	132	0.174	<1	1.95	0.011	0.61	<0.1	<0.01	3.7	0.2	<0.05	6	<0.5	<0.2
1194905	Soil	15	29	0.87	256	0.142	<1	1.81	0.017	0.26	0.1	0.04	5.1	0.1	<0.05	6	<0.5	<0.2
1194906	Soil	19	25	0.68	301	0.091	<1	1.54	0.017	0.16	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
1195522	Soil	24	21	0.78	202	0.061	<1	1.99	0.010	0.30	<0.1	0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
1195523	Soil	25	21	1.03	216	0.179	<1	2.17	0.009	0.39	<0.1	0.02	3.1	0.1	<0.05	6	<0.5	<0.2
1195524	Soil	12	23	0.36	264	0.038	<1	1.40	0.008	0.16	0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1195531	Soil	43	22	0.95	208	0.180	<1	2.70	0.011	0.08	0.1	0.03	5.7	<0.1	<0.05	10	<0.5	<0.2
1195532	Soil	16	29	0.72	302	0.082	1	1.51	0.026	0.06	0.2	0.07	4.2	<0.1	<0.05	5	<0.5	<0.2
1195547	Soil	16	28	0.62	332	0.080	1	1.61	0.017	0.05	0.2	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
1195548	Soil	19	27	0.54	269	0.090	2	1.74	0.018	0.12	0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
1195550	Soil	16	31	0.74	245	0.116	1	1.96	0.012	0.38	0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
1195551	Soil	14	24	1.04	208	0.081	<1	2.17	0.008	0.29	<0.1	0.01	4.7	<0.1	<0.05	7	<0.5	<0.2
1195567	Soil	14	24	0.56	320	0.071	1	1.50	0.017	0.07	0.2	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1195568	Soil	0.7	34.5	7.2	50	<0.1	24.0	10.3	362	2.86	9.8	1.4	9.4	8.5	32	<0.1	0.7	0.1	65	0.51	0.045
1195569	Soil	0.6	31.8	6.0	50	0.2	21.8	9.4	336	2.36	9.3	0.7	8.4	3.7	126	0.2	0.7	<0.1	54	7.18	0.057
1195570	Soil	0.6	14.5	9.8	47	<0.1	14.4	8.8	378	2.65	7.0	0.7	2.8	6.9	25	<0.1	0.4	0.1	48	0.32	0.029
1195571	Soil	0.5	24.4	6.3	49	<0.1	19.3	11.6	393	2.93	6.9	0.6	2.0	4.2	21	<0.1	0.4	0.1	67	0.31	0.024
1195572	Soil	1.0	30.8	6.1	55	0.3	15.1	9.4	701	2.77	6.3	2.2	5.9	3.7	41	0.1	0.4	0.1	61	0.89	0.086
1195573	Soil	0.6	117.7	3.8	94	<0.1	11.6	13.4	955	4.78	5.3	1.0	4.0	12.9	22	<0.1	0.3	<0.1	110	0.38	0.068
1195574	Soil	0.5	21.3	3.4	78	<0.1	13.2	16.8	781	4.39	4.6	1.1	4.7	9.8	26	<0.1	0.3	<0.1	88	0.41	0.058
1195575	Soil	0.7	11.4	7.6	52	<0.1	10.3	9.9	328	3.35	6.1	1.1	<0.5	4.4	17	<0.1	0.3	<0.1	66	0.26	0.025
1195594	Soil	0.6	25.9	7.4	53	<0.1	21.4	9.0	306	2.77	9.0	0.8	4.5	7.9	23	<0.1	0.5	0.1	54	0.30	0.027
1195597	Soil	0.5	31.6	7.2	48	<0.1	25.5	7.8	253	2.70	9.9	0.9	4.2	5.6	25	<0.1	0.6	0.1	55	0.31	0.027
1195598	Soil	0.7	29.7	7.4	49	<0.1	25.0	10.1	418	2.78	11.7	0.7	4.2	4.7	34	<0.1	0.6	0.1	59	0.50	0.083
1195599	Soil	0.3	17.5	6.5	62	<0.1	10.7	10.4	498	3.77	4.4	1.2	2.3	11.3	26	<0.1	0.3	<0.1	57	0.35	0.030
1195600	Soil	0.4	15.1	5.5	80	<0.1	10.3	11.3	643	3.49	4.5	0.8	1.7	8.7	35	<0.1	0.4	<0.1	47	0.50	0.083
1195001	Soil	0.7	11.2	11.4	39	<0.1	9.5	6.9	396	2.57	7.0	1.7	1.2	16.6	9	<0.1	0.4	0.1	38	0.11	0.024
1195002	Soil	1.4	27.0	8.8	60	<0.1	8.5	6.9	493	2.92	4.9	1.4	3.1	21.0	12	<0.1	0.4	0.1	34	0.14	0.020
1195003	Soil	0.8	22.1	9.1	66	<0.1	13.5	6.7	669	2.64	5.3	1.3	2.5	16.8	19	<0.1	0.4	<0.1	37	0.27	0.040
1195006	Soil	0.6	14.3	9.1	57	<0.1	12.3	8.4	342	2.90	6.1	1.6	1.5	17.0	18	<0.1	0.4	0.1	49	0.19	0.015
1195007	Soil	0.8	13.9	8.0	61	<0.1	9.6	7.1	828	3.17	5.5	2.2	1.4	23.0	11	<0.1	0.4	0.2	41	0.14	0.016
1195008	Soil	0.9	15.7	10.2	79	<0.1	16.2	14.8	567	3.82	8.6	0.6	1.2	8.8	17	<0.1	0.4	0.1	66	0.16	0.022
1195009	Soil	2.3	23.3	4.4	89	<0.1	5.8	15.8	1172	4.52	1.1	1.5	2.4	16.8	27	<0.1	<0.1	<0.1	107	0.45	0.070
1195010	Soil	0.6	61.7	4.2	380	<0.1	12.9	14.9	672	4.73	5.9	0.5	<0.5	2.5	13	0.2	0.3	0.1	166	0.25	0.056
1195011	Soil	1.1	25.7	8.5	46	0.1	20.2	7.6	334	2.52	8.6	0.6	3.6	5.7	20	<0.1	0.6	0.1	55	0.27	0.042
1195012	Soil	0.7	41.1	14.4	99	<0.1	25.4	23.9	1252	5.48	5.7	0.8	<0.5	13.1	13	<0.1	0.4	0.2	86	0.27	0.077
1195013	Soil	0.7	50.7	11.5	79	<0.1	53.7	22.7	797	5.28	2.4	1.6	0.7	19.8	13	<0.1	0.3	0.1	104	0.53	0.077
1195014	Soil	2.3	81.6	10.0	92	<0.1	12.3	21.4	722	4.91	4.0	0.7	1.0	4.1	21	0.1	0.2	0.1	97	0.32	0.065
1195015	Soil	0.7	41.2	9.8	46	<0.1	17.7	8.4	257	2.59	7.6	1.0	2.3	12.9	14	<0.1	0.4	3.2	49	0.16	0.018
1195016	Soil	1.3	35.6	9.3	78	0.3	23.5	16.9	486	4.23	6.9	0.7	1.5	3.2	24	0.2	0.4	0.1	116	0.44	0.042
1195017	Soil	1.1	37.8	8.1	83	0.2	20.9	19.4	479	4.76	4.6	0.7	0.9	3.0	29	0.1	0.3	<0.1	139	0.59	0.056
1195018	Soil	1.8	21.8	10.2	75	<0.1	21.0	11.8	719	4.72	12.8	0.6	1.5	4.5	13	0.1	0.7	0.2	81	0.13	0.026
1195019	Soil	0.5	22.2	3.2	72	<0.1	13.5	19.0	636	4.83	4.5	0.4	0.9	3.5	17	<0.1	0.3	<0.1	108	0.32	0.055

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1195568	Soil	27	28	0.64	255	0.104	1	1.45	0.019	0.13	0.3	0.05	4.3	<0.1	<0.05	5	<0.5	<0.2
1195569	Soil	13	25	0.74	465	0.081	2	1.16	0.025	0.07	0.2	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
1195570	Soil	22	23	0.49	213	0.043	<1	1.74	0.008	0.17	<0.1	<0.01	3.7	<0.1	<0.05	6	0.5	<0.2
1195571	Soil	16	29	0.66	151	0.119	2	1.71	0.011	0.39	0.1	0.01	4.2	0.1	<0.05	5	<0.5	<0.2
1195572	Soil	33	20	0.65	301	0.065	2	1.49	0.014	0.23	0.2	0.11	5.2	0.1	0.05	4	0.6	<0.2
1195573	Soil	27	16	1.70	347	0.160	<1	2.56	0.011	0.80	<0.1	0.03	9.1	0.2	<0.05	9	0.6	<0.2
1195574	Soil	16	16	1.35	343	0.149	1	2.47	0.011	0.85	0.1	0.03	6.1	0.3	<0.05	7	<0.5	<0.2
1195575	Soil	12	18	0.68	173	0.070	1	1.92	0.009	0.27	<0.1	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
1195594	Soil	24	30	0.51	209	0.065	1	1.59	0.011	0.13	0.1	0.04	5.3	<0.1	<0.05	5	<0.5	<0.2
1195597	Soil	19	34	0.50	192	0.069	<1	1.49	0.015	0.05	0.1	0.05	6.2	<0.1	<0.05	4	0.7	<0.2
1195598	Soil	16	33	0.53	238	0.074	<1	1.40	0.026	0.05	0.2	0.07	4.7	<0.1	<0.05	4	0.5	<0.2
1195599	Soil	32	15	0.94	255	0.071	<1	2.16	0.010	0.44	<0.1	0.04	6.5	0.3	<0.05	6	<0.5	<0.2
1195600	Soil	25	16	0.83	282	0.051	<1	1.87	0.010	0.19	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1195001	Soil	15	18	0.27	166	0.015	<1	1.50	0.006	0.09	0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
1195002	Soil	15	14	0.26	187	0.014	<1	1.20	0.007	0.16	<0.1	0.01	4.3	0.1	<0.05	4	<0.5	<0.2
1195003	Soil	27	16	0.30	263	0.016	1	1.08	0.009	0.08	0.2	0.03	5.2	<0.1	<0.05	3	0.8	<0.2
1195006	Soil	32	21	0.48	169	0.031	<1	1.65	0.008	0.06	0.1	0.04	5.3	<0.1	<0.05	6	<0.5	<0.2
1195007	Soil	33	14	0.19	206	0.011	<1	1.27	0.007	0.09	0.2	0.03	6.5	0.1	<0.05	4	<0.5	<0.2
1195008	Soil	10	30	0.89	159	0.055	<1	2.48	0.007	0.16	0.1	0.02	3.5	<0.1	<0.05	8	<0.5	<0.2
1195009	Soil	43	14	1.62	242	0.121	<1	2.57	0.008	0.90	0.1	0.01	8.4	0.3	<0.05	10	<0.5	<0.2
1195010	Soil	8	20	1.26	213	0.125	<1	2.88	0.020	0.08	0.2	0.09	7.3	<0.1	<0.05	9	1.2	<0.2
1195011	Soil	15	32	0.50	196	0.071	1	1.56	0.010	0.08	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
1195012	Soil	15	68	1.63	214	0.021	<1	2.92	0.006	0.16	0.1	0.02	6.8	<0.1	<0.05	10	<0.5	<0.2
1195013	Soil	50	133	1.43	245	0.138	<1	2.36	0.007	0.67	0.2	0.04	14.1	0.6	<0.05	8	<0.5	<0.2
1195014	Soil	7	33	1.68	247	0.098	<1	2.65	0.008	0.69	<0.1	0.02	4.1	0.3	<0.05	8	<0.5	<0.2
1195015	Soil	35	30	0.42	183	0.048	<1	1.61	0.007	0.05	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
1195016	Soil	14	73	1.44	207	0.139	<1	2.95	0.023	0.10	0.1	0.04	6.2	<0.1	<0.05	9	0.9	<0.2
1195017	Soil	17	94	1.96	239	0.183	<1	3.34	0.032	0.17	0.1	0.02	7.8	<0.1	<0.05	10	0.5	<0.2
1195018	Soil	10	39	0.51	227	0.053	<1	2.29	0.007	0.06	0.1	0.03	5.8	0.1	<0.05	6	<0.5	<0.2
1195019	Soil	7	16	1.46	263	0.300	<1	3.23	0.015	0.44	<0.1	0.01	2.4	0.2	<0.05	10	<0.5	<0.2

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Project: HEN  
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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1195020	Soil	1.0	34.6	8.5	87	<0.1	23.1	14.7	585	4.45	8.0	1.0	1.1	7.5	25	0.1	0.5	0.1	73	0.27	0.035
1195021	Soil	0.9	17.1	9.1	97	<0.1	17.8	15.4	606	4.43	7.3	0.6	1.3	7.6	25	<0.1	0.4	0.1	62	0.35	0.074
1195022	Soil	2.7	16.3	7.6	107	<0.1	13.5	16.4	928	5.73	3.4	0.9	0.5	10.3	22	<0.1	0.2	<0.1	85	0.35	0.084
1195023	Soil	0.5	14.3	8.1	95	<0.1	9.4	11.9	1141	4.04	2.3	1.0	<0.5	8.0	12	<0.1	0.1	0.1	51	0.39	0.109
1195024	Soil	1.6	32.6	32.9	150	0.3	26.0	10.0	808	3.16	17.6	1.6	1.6	12.4	23	0.3	0.9	1.5	50	0.51	0.031
1195025	Soil	0.8	28.2	10.4	67	<0.1	20.7	11.1	414	2.95	8.0	1.0	4.4	6.6	30	0.1	0.6	0.2	65	0.35	0.034
1192435	Soil	1.6	13.3	10.9	44	<0.1	15.5	7.4	224	3.56	10.8	0.5	1.3	2.7	12	0.1	0.5	0.2	72	0.14	0.032
1192441	Soil	0.5	19.4	6.8	83	<0.1	14.4	8.9	392	2.79	5.6	1.1	2.0	10.8	24	<0.1	0.4	0.2	51	0.24	0.012
1192444	Soil	0.8	13.8	6.0	70	<0.1	8.7	16.0	733	4.32	4.3	1.5	2.4	10.9	18	<0.1	0.4	<0.1	84	0.32	0.056



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1195020	Soil	15	57	1.07	201	0.118	<1	2.72	0.008	0.34	0.1	0.04	4.7	0.2	<0.05	9	<0.5	<0.2
1195021	Soil	12	28	0.99	197	0.168	<1	2.88	0.009	0.78	0.1	0.03	1.8	0.4	<0.05	8	<0.5	<0.2
1195022	Soil	28	27	2.58	348	0.263	<1	3.42	0.010	0.94	<0.1	0.01	7.8	0.4	<0.05	15	<0.5	<0.2
1195023	Soil	22	17	0.93	264	0.110	<1	2.20	0.008	0.65	<0.1	0.02	7.0	0.3	<0.05	8	<0.5	<0.2
1195024	Soil	21	29	0.92	170	0.077	<1	2.14	0.008	0.18	0.3	0.04	6.3	0.2	<0.05	8	<0.5	<0.2
1195025	Soil	33	37	0.65	366	0.088	<1	1.89	0.014	0.08	0.1	0.04	5.1	<0.1	<0.05	6	<0.5	<0.2
1192435	Soil	9	35	0.37	165	0.047	<1	2.02	0.008	0.03	0.2	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
1192441	Soil	22	23	0.60	201	0.060	<1	2.11	0.012	0.10	0.1	0.02	3.6	0.2	<0.05	7	<0.5	<0.2
1192444	Soil	9	15	1.19	258	0.140	<1	2.49	0.007	0.82	0.1	<0.01	5.2	0.3	<0.05	7	<0.5	<0.2



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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000307.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1194694	Soil	0.7	126.5	12.5	94	<0.1	48.8	22.8	775	4.87	5.3	0.9	0.6	21.9	17	<0.1	0.3	0.2	45	0.27	0.088
REP 1194694	QC	0.8	128.0	12.4	93	<0.1	48.8	23.3	782	4.95	6.0	0.9	1.2	23.0	18	<0.1	0.3	0.3	47	0.27	0.086
1194750	Soil	0.4	27.2	3.6	70	<0.1	16.5	20.6	588	4.31	3.8	0.3	<0.5	3.3	81	<0.1	0.2	<0.1	108	0.62	0.046
REP 1194750	QC	0.3	28.0	3.6	69	<0.1	15.4	20.9	568	4.27	4.0	0.3	<0.5	3.2	81	<0.1	0.2	<0.1	107	0.60	0.044
1195521	Soil	0.9	22.5	11.6	93	<0.1	15.7	24.1	852	6.12	3.7	1.4	2.7	2.9	32	<0.1	0.3	0.1	128	0.70	0.123
REP 1195521	QC	1.0	22.0	11.7	94	<0.1	16.2	23.7	851	5.97	3.6	1.4	3.2	2.9	31	<0.1	0.3	0.1	123	0.70	0.119
1195576	Soil	0.7	26.0	7.4	62	<0.1	21.4	11.0	515	3.01	7.8	0.5	0.6	6.0	27	<0.1	0.6	0.1	54	0.43	0.049
REP 1195576	QC	0.6	27.1	7.9	64	<0.1	21.7	11.5	522	3.06	8.1	0.5	1.3	6.0	28	0.1	0.6	0.1	56	0.45	0.049
1194714	Soil	0.6	18.7	8.2	73	<0.1	20.7	19.0	730	4.12	4.8	2.0	<0.5	31.0	36	<0.1	0.5	<0.1	70	0.56	0.090
REP 1194714	QC	0.6	18.8	7.7	73	<0.1	20.8	19.1	729	4.07	4.8	2.1	0.6	31.6	37	0.1	0.5	<0.1	69	0.56	0.097
1194718	Soil	0.9	34.6	12.3	49	0.1	23.7	10.0	527	2.55	7.8	0.5	2.1	4.4	29	<0.1	0.4	0.3	42	1.11	0.048
REP 1194718	QC	1.0	34.8	12.5	48	0.1	22.7	9.9	515	2.51	8.7	0.5	1.8	4.8	30	0.1	0.4	0.2	47	1.10	0.047
1197572	Soil	0.7	18.3	10.4	58	<0.1	19.4	9.2	587	2.75	10.6	0.4	1.9	4.2	31	<0.1	0.3	0.1	51	0.55	0.032
REP 1197572	QC	0.9	18.1	10.1	57	<0.1	20.0	9.4	613	2.76	10.6	0.5	1.0	4.2	31	<0.1	0.3	0.1	54	0.54	0.032
1198457	Soil	0.7	36.8	9.8	58	0.1	35.3	11.5	424	2.74	12.8	0.6	5.0	5.2	29	<0.1	0.8	0.2	51	0.44	0.057
REP 1198457	QC	0.8	37.2	9.9	57	0.1	34.7	11.4	429	2.65	12.7	0.6	5.1	5.2	30	<0.1	0.8	0.2	52	0.45	0.058
1035429	Soil	0.3	29.2	5.6	78	<0.1	10.5	14.4	749	4.31	4.7	1.4	0.7	10.0	41	<0.1	<0.1	<0.1	104	0.50	0.038
REP 1035429	QC	0.4	28.6	5.5	78	<0.1	9.9	14.7	730	4.22	4.3	1.4	<0.5	9.7	41	<0.1	<0.1	<0.1	102	0.49	0.037
1194781	Soil	0.7	17.0	5.4	73	<0.1	13.8	17.5	966	4.04	5.3	0.5	1.5	4.8	29	<0.1	0.3	<0.1	93	0.40	0.057
REP 1194781	QC	0.7	17.1	5.4	72	<0.1	12.8	17.0	963	3.95	5.0	0.5	0.6	5.0	29	<0.1	0.3	<0.1	92	0.39	0.057
1194905	Soil	0.6	30.0	6.1	61	<0.1	19.5	12.2	558	3.37	6.9	1.0	3.4	6.7	31	<0.1	0.5	0.1	80	0.39	0.039
REP 1194905	QC	0.5	29.7	6.9	61	<0.1	19.1	12.0	553	3.40	7.4	1.0	0.9	6.7	32	0.1	0.5	0.1	80	0.41	0.038
1195574	Soil	0.5	21.3	3.4	78	<0.1	13.2	16.8	781	4.39	4.6	1.1	4.7	9.8	26	<0.1	0.3	<0.1	88	0.41	0.058
REP 1195574	QC	0.4	20.0	3.5	77	<0.1	13.0	16.5	763	4.25	4.5	1.0	2.4	9.2	25	<0.1	0.2	<0.1	87	0.42	0.058
1195022	Soil	2.7	16.3	7.6	107	<0.1	13.5	16.4	928	5.73	3.4	0.9	0.5	10.3	22	<0.1	0.2	<0.1	85	0.35	0.084
REP 1195022	QC	2.7	17.4	7.8	109	<0.1	13.4	16.9	947	5.88	3.6	1.0	<0.5	10.8	23	<0.1	0.2	<0.1	88	0.32	0.087
Reference Materials																					
STD DS8	Standard	12.6	114.4	127.6	320	1.8	40.5	7.6	643	2.50	26.6	3.1	124.9	7.2	74	2.4	6.5	7.1	45	0.69	0.081

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**Project:** HEN  
**Report Date:** July 19, 2011

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QUALITY CONTROL REPORT

WHI11000307.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1194694	Soil	38	32	0.96	326	0.102	<1	2.24	0.008	0.57	<0.1	<0.01	3.1	0.2	<0.05	7	<0.5	<0.2
REP 1194694	QC	37	33	1.00	339	0.108	<1	2.32	0.009	0.59	<0.1	<0.01	3.2	0.3	<0.05	7	<0.5	<0.2
1194750	Soil	6	37	1.58	333	0.275	<1	2.53	0.017	0.52	<0.1	<0.01	2.4	0.1	<0.05	7	<0.5	<0.2
REP 1194750	QC	6	36	1.57	332	0.272	<1	2.57	0.022	0.52	<0.1	<0.01	2.5	0.1	<0.05	6	<0.5	<0.2
1195521	Soil	17	21	1.35	626	0.032	<1	2.98	0.015	0.14	0.1	0.03	22.4	<0.1	<0.05	10	0.9	<0.2
REP 1195521	QC	16	21	1.33	614	0.031	<1	2.90	0.015	0.14	0.1	0.03	22.1	<0.1	<0.05	10	0.6	<0.2
1195576	Soil	15	27	0.72	280	0.111	<1	1.52	0.026	0.26	0.1	0.04	3.7	0.1	<0.05	5	<0.5	<0.2
REP 1195576	QC	16	27	0.76	294	0.116	1	1.56	0.022	0.27	0.1	0.05	4.0	0.1	<0.05	5	<0.5	<0.2
1194714	Soil	25	50	1.43	156	0.241	<1	2.46	0.014	1.16	0.2	0.02	3.5	0.8	<0.05	9	<0.5	<0.2
REP 1194714	QC	25	49	1.41	149	0.231	1	2.38	0.014	1.18	0.2	0.01	3.4	0.8	<0.05	9	0.6	<0.2
1194718	Soil	17	28	0.57	261	0.055	2	1.36	0.019	0.10	0.2	0.04	3.1	<0.1	0.06	4	<0.5	<0.2
REP 1194718	QC	17	28	0.56	263	0.054	2	1.34	0.020	0.10	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
1197572	Soil	13	33	0.52	977	0.057	1	1.93	0.015	0.18	0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
REP 1197572	QC	13	33	0.54	967	0.058	1	1.96	0.015	0.18	<0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
1198457	Soil	18	32	0.56	308	0.069	2	1.34	0.021	0.10	0.2	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
REP 1198457	QC	19	32	0.58	306	0.070	2	1.39	0.021	0.09	0.2	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
1035429	Soil	28	20	1.51	196	0.162	1	2.81	0.015	0.82	<0.1	0.01	6.2	0.3	0.06	9	<0.5	<0.2
REP 1035429	QC	28	20	1.49	199	0.153	1	2.75	0.014	0.79	<0.1	0.02	6.2	0.3	<0.05	8	<0.5	<0.2
1194781	Soil	8	21	1.29	298	0.217	<1	2.32	0.010	0.82	<0.1	0.01	2.3	0.2	<0.05	7	<0.5	<0.2
REP 1194781	QC	8	21	1.28	301	0.214	1	2.25	0.010	0.80	0.1	0.01	2.3	0.3	<0.05	7	<0.5	<0.2
1194905	Soil	15	29	0.87	256	0.142	<1	1.81	0.017	0.26	0.1	0.04	5.1	0.1	<0.05	6	<0.5	<0.2
REP 1194905	QC	15	30	0.88	254	0.144	<1	1.84	0.016	0.25	0.1	0.03	5.5	0.1	<0.05	6	<0.5	<0.2
1195574	Soil	16	16	1.35	343	0.149	1	2.47	0.011	0.85	0.1	0.03	6.1	0.3	<0.05	7	<0.5	<0.2
REP 1195574	QC	16	15	1.31	338	0.146	<1	2.35	0.010	0.85	<0.1	0.04	5.8	0.3	<0.05	7	<0.5	<0.2
1195022	Soil	28	27	2.58	348	0.263	<1	3.42	0.010	0.94	<0.1	0.01	7.8	0.4	<0.05	15	<0.5	<0.2
REP 1195022	QC	28	28	2.63	354	0.277	<1	3.61	0.010	0.95	<0.1	0.02	7.8	0.4	<0.05	16	0.7	<0.2
Reference Materials																		
STD DS8	Standard	15	128	0.62	289	0.138	2	0.91	0.091	0.44	2.9	0.20	2.2	5.5	0.18	5	5.8	5.4

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 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000307.2

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
STD DS8	Standard	14.1	119.6	128.8	336	1.8	41.0	8.3	655	2.61	27.9	3.0	115.7	7.2	74	2.3	6.4	7.2	43	0.74	0.086
STD DS8	Standard	13.7	115.6	132.0	318	1.9	41.4	7.9	634	2.48	24.7	2.8	119.9	7.1	61	1.9	5.4	6.1	43	0.70	0.077
STD DS8	Standard	13.7	113.3	131.5	313	1.8	40.3	7.9	601	2.43	24.7	2.8	132.5	7.0	60	2.0	5.1	6.1	43	0.67	0.078
STD DS8	Standard	12.9	109.4	121.9	317	1.8	38.8	7.6	596	2.39	24.2	2.5	97.1	6.1	62	2.3	5.0	5.9	41	0.65	0.074
STD DS8	Standard	13.0	109.6	120.0	317	1.8	39.6	7.5	608	2.42	24.9	2.5	103.5	6.3	63	2.0	5.1	5.8	42	0.65	0.075
STD DS8	Standard	13.8	116.7	127.9	320	1.8	40.7	7.6	602	2.40	25.2	2.7	107.4	6.7	61	2.1	5.3	6.6	44	0.66	0.077
STD DS8	Standard	13.6	118.1	124.5	315	1.8	39.7	7.8	605	2.41	25.4	2.6	101.2	6.6	60	2.4	5.2	6.5	43	0.66	0.075
STD DS8	Standard	13.0	116.0	128.5	317	1.7	39.6	7.9	615	2.42	25.6	2.8	112.9	7.1	65	2.1	5.7	6.9	42	0.69	0.077
STD DS8	Standard	14.3	115.6	133.9	319	1.8	38.6	8.0	620	2.55	26.1	3.0	128.9	7.1	68	2.4	5.8	7.1	44	0.70	0.080
STD DS8	Standard	13.5	110.4	131.8	314	1.8	36.3	7.7	608	2.47	26.0	2.9	126.6	7.2	69	2.2	5.7	6.9	42	0.70	0.077
STD DS8	Standard	14.3	114.0	129.4	326	1.8	39.8	7.9	639	2.48	27.3	3.0	105.2	7.4	70	2.5	5.8	6.9	45	0.72	0.082
STD DS8	Standard	12.8	108.5	120.4	312	1.7	37.5	7.4	585	2.36	25.5	2.5	113.5	6.1	60	2.1	4.9	6.0	42	0.68	0.073
STD DS8	Standard	13.1	106.0	117.8	308	1.7	36.7	7.2	586	2.36	25.4	2.4	106.4	6.0	60	2.0	5.1	5.8	42	0.65	0.072
STD DS8	Standard	14.5	111.5	132.9	326	1.9	40.2	7.9	655	2.61	28.0	2.8	112.3	7.6	71	2.4	5.0	6.5	44	0.78	0.082
STD DS8	Standard	14.3	111.9	126.6	321	1.7	40.8	7.9	655	2.61	27.1	2.8	112.5	7.6	72	2.2	5.2	6.2	41	0.78	0.080
STD DS8	Standard	13.5	108.5	123.7	305	1.7	39.4	7.7	620	2.50	25.4	2.6	128.1	6.8	63	2.1	4.8	6.0	40	0.69	0.076
STD DS8	Standard	13.6	108.9	124.6	313	1.8	39.9	7.9	625	2.48	26.6	2.7	111.1	6.9	64	2.3	4.8	6.1	41	0.71	0.077
STD DS8	Standard	13.7	114.8	121.3	333	1.9	39.8	7.7	641	2.55	27.1	2.7	127.0	6.7	65	2.5	5.2	6.7	43	0.68	0.080
STD DS8	Standard	13.4	112.3	119.6	321	1.9	38.8	7.7	614	2.50	26.9	2.6	116.6	6.5	61	2.5	5.1	6.4	43	0.68	0.082
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001





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Project: HEN

Report Date: July 19, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2
STD DS8	Standard	15	125	0.62	293	0.131	2	0.93	0.089	0.45	3.1	0.22	2.4	5.5	0.20	5	6.4	5.2
STD DS8	Standard	14	123	0.61	274	0.119	2	0.91	0.085	0.42	3.2	0.22	2.2	5.5	0.13	5	5.6	5.1
STD DS8	Standard	14	121	0.60	271	0.120	2	0.86	0.087	0.41	3.1	0.21	2.0	5.4	0.13	5	5.4	5.4
STD DS8	Standard	13	120	0.61	267	0.111	2	0.87	0.083	0.40	3.0	0.20	1.9	5.5	0.16	4	5.6	5.0
STD DS8	Standard	14	120	0.59	268	0.112	3	0.89	0.085	0.40	2.9	0.19	1.9	5.5	0.15	5	5.7	4.9
STD DS8	Standard	14	122	0.62	279	0.113	3	0.90	0.084	0.41	3.0	0.20	2.1	5.3	0.15	5	5.8	5.5
STD DS8	Standard	14	121	0.60	270	0.114	2	0.88	0.084	0.40	2.9	0.20	2.1	5.3	0.15	5	5.4	5.1
STD DS8	Standard	14	122	0.58	282	0.118	3	0.88	0.083	0.40	3.0	0.19	2.0	5.3	0.16	5	5.8	5.1
STD DS8	Standard	15	123	0.59	294	0.123	2	0.92	0.084	0.42	3.1	0.21	2.1	5.4	0.17	5	5.0	5.0
STD DS8	Standard	15	121	0.58	286	0.122	3	0.94	0.095	0.41	2.9	0.21	2.3	5.3	0.16	5	5.0	5.6
STD DS8	Standard	16	130	0.60	281	0.126	3	0.96	0.095	0.43	2.9	0.22	2.3	5.2	0.17	5	6.2	4.2
STD DS8	Standard	14	117	0.59	264	0.112	<1	0.85	0.082	0.40	3.0	0.19	2.0	5.3	0.14	5	4.5	5.3
STD DS8	Standard	14	118	0.58	268	0.114	2	0.84	0.079	0.39	3.1	0.19	2.0	5.3	0.15	4	5.7	5.4
STD DS8	Standard	17	126	0.66	295	0.128	4	1.00	0.106	0.44	3.0	0.21	2.4	5.7	0.22	5	5.7	5.3
STD DS8	Standard	17	126	0.63	295	0.131	3	1.00	0.104	0.43	3.1	0.21	2.4	5.6	0.18	5	5.1	5.7
STD DS8	Standard	15	120	0.60	269	0.115	2	0.89	0.090	0.40	2.9	0.20	2.1	5.6	0.17	5	5.0	5.5
STD DS8	Standard	15	125	0.61	277	0.117	2	0.92	0.091	0.40	3.0	0.21	2.0	5.6	0.15	5	5.4	5.0
STD DS8	Standard	15	122	0.61	275	0.119	2	0.95	0.093	0.43	3.1	0.22	2.2	5.7	0.17	5	6.5	5.1
STD DS8	Standard	14	123	0.59	273	0.115	3	0.91	0.069	0.43	2.9	0.23	2.1	5.6	0.15	5	5.6	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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**Project:** HEN

**Report Date:** July 19, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Vancouver BC V6C 1H2 Canada

**Project:** HEN

**Report Date:** July 19, 2011

**Page:** 3 of 3 **Part** 2

## QUALITY CONTROL REPORT

WHI11000307.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 20, 2011
Report Date: July 19, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

WHI11000308.2

CLIENT JOB INFORMATION

Project: HEN
Shipment ID:
P.O. Number
Number of Samples: 201

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include methods like Dry at 60C, SS80, and 1DX2.

ADDITIONAL COMMENTS

Version 2 : 1DX-U included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: HEN  
 Report Date: July 19, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11000308.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1035491	Soil		1.5	62.8	7.1	143	<0.1	23.5	20.4	1115	4.91	2.5	1.1	1.3	2.8	26	0.2	0.3	<0.1	168	0.58	0.056
1194815	Soil		0.9	18.5	9.1	53	0.1	22.3	12.0	299	3.22	8.5	0.5	1.9	3.7	14	<0.1	0.5	0.2	85	0.16	0.025
1194817	Soil		0.6	22.0	5.1	63	<0.1	34.7	17.3	476	3.46	5.5	0.3	<0.5	2.0	16	<0.1	0.3	<0.1	87	0.25	0.040
1195528	Soil		0.8	13.2	8.3	59	<0.1	18.0	9.0	292	2.87	9.4	0.5	0.6	5.6	17	<0.1	0.5	0.1	62	0.19	0.031
1197094	Soil		1.2	19.2	8.4	67	<0.1	21.5	13.6	577	3.47	7.5	0.9	<0.5	4.6	28	<0.1	0.5	0.1	68	0.31	0.027
1197655	Soil		0.9	19.7	8.5	53	<0.1	21.1	11.3	558	2.69	9.0	0.4	1.1	4.3	31	<0.1	0.5	0.2	57	0.42	0.036
1197658	Soil		0.6	18.7	7.1	60	<0.1	18.2	10.8	413	2.77	6.2	0.5	<0.5	3.9	40	<0.1	0.4	0.1	62	0.52	0.049
1197659	Soil		0.6	46.5	8.0	67	0.2	26.6	13.7	559	3.56	12.2	1.0	4.8	6.3	44	<0.1	0.6	0.1	84	0.54	0.058
1197660	Soil		0.4	22.1	4.5	66	<0.1	18.1	14.3	599	3.61	7.2	0.4	2.4	3.3	44	<0.1	0.4	<0.1	81	0.67	0.075
1197661	Soil		0.8	43.3	8.4	56	0.1	34.0	12.4	372	3.04	13.9	0.6	3.2	4.7	29	<0.1	0.7	0.2	70	0.41	0.039
1197662	Soil		0.6	40.6	8.6	53	<0.1	30.4	11.3	402	2.84	12.8	0.7	3.7	4.9	32	<0.1	0.8	0.2	61	0.44	0.066
1197663	Soil		0.6	23.2	8.7	60	<0.1	23.2	11.6	545	2.87	7.6	0.6	10.5	4.4	35	0.1	0.5	0.2	61	0.49	0.052
1197664	Soil		0.8	34.8	8.9	54	0.2	29.5	11.2	386	2.82	13.4	0.8	2.4	5.0	30	<0.1	0.7	0.2	64	0.44	0.057
1197665	Soil		2.7	20.7	10.2	92	0.4	21.8	10.6	479	2.41	7.3	0.7	<0.5	2.2	31	1.1	0.4	0.2	83	0.45	0.086
1197666	Soil		2.4	23.6	9.8	67	0.4	23.5	10.0	242	2.43	8.4	1.0	1.3	2.9	27	0.3	0.5	0.2	72	0.27	0.039
1197667	Soil		3.3	54.7	10.5	148	0.3	65.7	14.2	642	3.17	16.5	1.4	1.1	5.5	69	0.3	0.5	0.2	109	0.40	0.030
1197668	Soil		1.6	36.1	15.4	126	0.2	45.9	16.1	452	3.63	7.2	1.4	0.7	8.6	35	0.3	0.4	0.2	63	0.38	0.042
1197669	Soil		0.9	50.3	9.3	60	0.4	40.0	10.8	303	2.84	10.9	0.9	4.6	5.6	28	<0.1	0.6	0.1	58	0.46	0.045
1197670	Soil		3.2	54.0	11.3	175	0.2	73.7	18.9	462	4.48	4.9	2.8	<0.5	13.8	78	0.4	0.2	0.1	58	0.52	0.072
1197671	Soil		2.6	46.5	10.4	147	0.1	62.1	17.0	443	4.02	4.8	2.3	<0.5	11.2	66	0.3	0.2	0.1	63	0.46	0.063
1197672	Soil		1.9	50.2	10.1	115	0.3	54.6	20.9	808	4.61	6.9	1.5	2.7	12.3	59	0.2	0.4	0.2	68	1.44	0.084
1197673	Soil		0.8	37.2	8.9	54	<0.1	32.0	11.5	362	2.85	12.8	0.7	2.7	5.2	27	<0.1	0.7	0.2	61	0.40	0.054
1197674	Soil		0.7	16.9	7.3	63	<0.1	16.6	10.9	433	3.36	7.5	0.5	<0.5	4.2	62	<0.1	0.4	0.1	66	0.57	0.048
1197675	Soil		3.7	49.0	9.6	563	0.3	115.1	9.4	395	2.67	21.9	1.3	<0.5	4.5	43	2.8	1.0	0.2	214	0.67	0.194
1197676	Soil		2.0	18.4	25.3	182	0.5	34.9	5.8	176	2.48	14.3	0.5	2.1	1.7	16	1.0	0.6	0.2	96	0.23	0.082
1197677	Soil		5.0	92.5	15.8	424	0.4	85.5	11.7	373	3.30	8.4	4.0	2.8	7.4	52	1.7	0.4	0.3	162	0.49	0.118
1197678	Soil		0.9	24.0	9.0	81	0.1	31.6	11.0	468	2.70	11.3	0.7	1.0	4.1	30	0.3	0.4	0.2	73	0.45	0.040
1197679	Soil		0.8	40.5	9.7	97	0.3	38.9	10.4	649	2.96	10.2	1.1	2.2	5.5	30	0.3	0.6	0.1	75	0.43	0.065
1197680	Soil		0.9	31.1	8.1	106	0.2	32.8	12.2	458	3.53	7.7	1.6	0.6	6.6	35	0.2	0.4	0.1	92	0.41	0.081
1197681	Soil		5.2	77.0	7.5	142	0.4	32.9	4.3	226	2.89	5.1	4.5	3.1	8.3	59	1.0	0.3	0.1	194	0.25	0.080

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000308.2

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm
1035491 Soil	21	93	1.63	686	0.153	<1	2.94	0.019	0.44	<0.1	0.06	11.4	0.2	<0.05	9	0.6	<0.2
1194815 Soil	9	37	0.53	245	0.078	<1	2.29	0.017	0.04	0.1	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
1194817 Soil	5	63	1.50	237	0.181	<1	2.59	0.013	0.35	<0.1	0.01	2.8	0.1	<0.05	7	<0.5	<0.2
1195528 Soil	9	30	0.48	207	0.060	<1	1.86	0.015	0.16	<0.1	0.01	2.7	0.1	<0.05	5	<0.5	<0.2
1197094 Soil	18	43	0.79	305	0.065	<1	2.33	0.011	0.08	0.1	0.02	4.5	<0.1	<0.05	8	<0.5	<0.2
1197655 Soil	12	30	0.47	300	0.069	2	1.58	0.010	0.18	0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
1197658 Soil	10	29	0.60	258	0.092	<1	1.91	0.012	0.16	0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
1197659 Soil	16	29	1.02	223	0.127	1	2.02	0.013	0.25	0.2	0.05	5.1	0.1	<0.05	6	<0.5	<0.2
1197660 Soil	11	21	1.11	228	0.180	<1	2.39	0.014	0.67	0.1	0.02	2.9	0.2	<0.05	6	<0.5	<0.2
1197661 Soil	15	36	0.60	232	0.086	<1	1.69	0.016	0.16	0.2	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
1197662 Soil	16	32	0.58	250	0.081	1	1.45	0.014	0.12	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1197663 Soil	13	32	0.57	315	0.076	1	1.69	0.011	0.19	0.2	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
1197664 Soil	17	35	0.53	280	0.077	1	1.54	0.013	0.10	0.2	0.03	5.2	<0.1	<0.05	4	<0.5	<0.2
1197665 Soil	8	33	0.39	1216	0.041	<1	1.33	0.010	0.13	0.2	0.03	2.4	<0.1	<0.05	4	0.8	<0.2
1197666 Soil	11	35	0.45	269	0.049	<1	1.55	0.010	0.07	0.1	0.01	3.1	<0.1	<0.05	4	0.8	<0.2
1197667 Soil	15	61	0.79	306	0.105	<1	2.04	0.013	0.19	<0.1	0.04	6.2	0.2	<0.05	7	0.5	<0.2
1197668 Soil	28	44	0.75	251	0.167	<1	2.20	0.010	0.57	<0.1	0.02	5.0	0.3	<0.05	7	<0.5	<0.2
1197669 Soil	22	36	0.59	151	0.083	<1	1.33	0.019	0.12	0.1	0.06	5.1	<0.1	<0.05	4	<0.5	<0.2
1197670 Soil	39	42	1.07	245	0.230	<1	2.49	0.012	0.90	<0.1	0.02	3.7	0.4	<0.05	8	0.8	<0.2
1197671 Soil	29	44	0.99	248	0.203	<1	2.31	0.012	0.82	<0.1	0.01	3.8	0.4	<0.05	7	0.7	<0.2
1197672 Soil	41	56	1.32	383	0.226	2	2.59	0.018	1.15	<0.1	0.02	5.5	0.5	0.07	9	0.7	<0.2
1197673 Soil	17	34	0.51	215	0.086	2	1.45	0.019	0.15	0.2	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
1197674 Soil	13	29	0.72	253	0.119	<1	2.35	0.015	0.28	0.1	0.01	4.1	<0.1	<0.05	6	<0.5	<0.2
1197675 Soil	16	60	0.71	3344	0.052	1	1.71	0.012	0.16	0.2	0.02	4.0	<0.1	<0.05	5	1.4	<0.2
1197676 Soil	9	30	0.38	475	0.038	2	1.53	0.007	0.11	0.2	<0.01	2.2	<0.1	<0.05	6	0.7	<0.2
1197677 Soil	28	66	0.75	572	0.100	<1	1.88	0.011	0.24	<0.1	0.03	5.7	0.2	0.16	5	1.9	<0.2
1197678 Soil	13	36	0.48	805	0.067	<1	1.60	0.015	0.09	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
1197679 Soil	18	37	0.58	526	0.074	2	1.62	0.016	0.18	0.1	0.05	4.8	0.1	<0.05	5	<0.5	<0.2
1197680 Soil	17	37	0.76	549	0.141	1	2.23	0.012	0.53	<0.1	0.02	5.8	0.3	<0.05	7	<0.5	<0.2
1197681 Soil	28	41	0.69	722	0.111	<1	1.83	0.016	0.22	<0.1	0.04	5.0	0.2	0.18	7	3.1	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000308.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197682	Soil	0.5	35.7	4.3	110	0.1	12.9	13.9	716	5.82	9.3	1.6	1.1	2.6	30	0.1	0.3	<0.1	126	0.67	0.129
1197683	Soil	2.0	29.4	6.6	186	0.1	28.0	7.5	597	5.61	16.0	2.2	1.9	15.3	49	2.4	0.4	0.2	128	0.68	0.220
1197684	Soil	1.0	18.5	8.9	116	0.9	29.8	8.7	348	2.39	7.2	0.5	<0.5	2.6	26	0.8	0.4	0.1	84	0.36	0.091
1197685	Soil	1.0	17.3	8.7	68	0.3	25.3	9.7	606	2.82	10.2	0.6	0.7	4.7	22	0.2	0.5	0.2	65	0.25	0.033
1198104	Soil	0.6	38.2	5.9	36	<0.1	26.4	12.4	182	2.43	7.3	0.3	1.1	1.7	58	<0.1	0.3	0.1	53	0.23	0.025
1198106	Soil	1.8	50.2	4.9	45	<0.1	12.0	6.5	324	4.42	7.2	0.7	1.5	4.6	12	<0.1	0.5	0.1	29	0.12	0.027
1198155	Soil	0.8	23.6	85.9	196	<0.1	4.2	7.1	583	2.81	2.1	1.6	1.7	21.4	20	0.3	1.2	0.5	21	0.33	0.038
1198160	Soil	1.0	21.4	8.9	60	<0.1	20.5	10.3	343	3.23	9.5	0.7	1.6	7.2	15	<0.1	0.5	0.2	62	0.16	0.023
1198202	Soil	0.4	62.5	2.1	58	<0.1	21.0	21.2	855	6.40	2.8	1.0	2.3	6.4	31	<0.1	0.1	<0.1	118	0.68	0.109
1198203	Soil	0.4	25.4	2.0	51	<0.1	14.5	11.8	614	3.68	3.5	0.3	<0.5	2.5	27	<0.1	<0.1	<0.1	70	0.76	0.196
1198204	Soil	0.4	29.2	2.6	56	<0.1	23.5	14.7	488	2.92	4.0	0.3	<0.5	3.2	26	<0.1	<0.1	<0.1	61	0.59	0.101
1198205	Soil	0.4	42.1	3.0	41	<0.1	24.6	19.1	646	3.90	6.0	0.7	1.5	1.8	28	<0.1	0.2	<0.1	100	0.80	0.126
1198206	Soil	0.8	23.4	7.6	96	<0.1	26.0	11.7	543	3.45	10.7	0.5	1.4	4.7	24	<0.1	0.5	0.1	63	0.39	0.062
1198207	Soil	0.2	64.3	1.8	102	<0.1	10.2	18.5	882	6.13	2.6	0.6	1.5	1.4	32	<0.1	<0.1	<0.1	116	0.99	0.123
1198208	Soil	0.8	23.3	6.7	67	<0.1	20.8	9.2	371	3.16	10.0	0.8	2.8	4.5	24	<0.1	0.5	0.1	45	0.36	0.040
1198209	Soil	1.0	19.6	9.5	103	<0.1	20.3	9.5	661	3.32	9.3	0.5	1.4	4.9	21	<0.1	0.4	0.1	47	0.32	0.053
1198210	Soil	1.1	22.0	9.5	87	<0.1	22.9	9.7	520	3.07	11.1	0.6	1.4	5.9	21	<0.1	0.6	0.1	52	0.29	0.031
1198211	Soil	0.8	12.4	6.2	135	<0.1	10.4	8.6	845	4.37	7.8	0.6	<0.5	12.1	22	<0.1	0.2	<0.1	28	0.35	0.056
1198212	Soil	0.7	28.2	6.0	108	<0.1	14.2	7.5	721	3.83	7.9	0.9	<0.5	11.9	21	<0.1	0.3	<0.1	30	0.33	0.059
1198213	Soil	0.9	23.8	9.7	111	0.1	27.8	9.5	361	3.58	16.1	0.6	2.1	5.9	29	0.3	0.5	0.1	74	0.32	0.069
1198214	Soil	1.4	25.8	8.5	72	0.4	26.7	10.6	381	2.86	30.4	0.9	2.3	5.4	24	0.2	0.6	0.1	62	0.34	0.054
1198215	Soil	0.7	29.2	2.9	282	<0.1	9.2	6.9	624	3.55	6.8	0.9	<0.5	7.9	19	0.2	0.2	0.1	35	0.35	0.050
1198216	Soil	1.1	26.3	10.1	63	<0.1	24.9	10.3	484	3.02	13.5	0.7	0.6	5.2	28	<0.1	0.6	0.2	55	0.39	0.047
1198217	Soil	0.8	31.2	11.7	74	<0.1	22.3	8.1	447	3.04	11.3	0.8	2.8	4.7	26	<0.1	0.5	0.1	45	0.47	0.049
1198218	Soil	1.1	23.0	7.3	89	<0.1	21.9	11.0	853	3.47	9.2	0.7	3.9	4.8	32	<0.1	0.4	0.1	47	0.53	0.069
1198219	Soil	1.3	31.7	16.6	101	0.2	17.8	12.9	834	4.07	8.3	0.9	<0.5	5.7	75	<0.1	0.2	0.3	75	0.46	0.064
1198220	Soil	1.4	62.5	15.8	122	0.2	40.1	20.1	1022	4.63	7.5	1.1	1.5	3.4	73	<0.1	0.3	0.2	93	0.82	0.045
1198221	Soil	0.8	49.8	13.3	159	0.1	16.8	6.6	588	3.15	6.7	1.6	2.3	10.9	62	0.2	0.3	<0.1	37	0.33	0.047
1198222	Soil	0.4	84.1	10.5	86	0.2	25.9	16.2	804	3.79	5.7	0.6	2.9	4.8	203	0.1	0.1	<0.1	100	1.94	0.060
1198223	Soil	0.8	88.6	26.4	597	0.4	18.4	28.6	1202	5.56	4.0	0.7	1.4	2.3	101	0.6	0.2	0.2	166	0.80	0.032

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Project: HEN  
 Report Date: July 19, 2011

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# CERTIFICATE OF ANALYSIS

WHI11000308.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2
1197682	Soil	16	9	1.08	552	0.226	<1	2.42	0.024	0.72	<0.1	0.04	11.6	0.2	<0.05	11	<0.5	<0.2
1197683	Soil	68	16	0.72	935	0.005	2	2.94	0.012	0.14	<0.1	0.03	15.1	<0.1	<0.05	12	1.0	<0.2
1197684	Soil	10	46	0.59	556	0.057	<1	1.75	0.010	0.08	0.1	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
1197685	Soil	13	36	0.54	435	0.070	2	1.86	0.008	0.09	0.1	0.02	3.9	0.1	<0.05	5	0.7	<0.2
1198104	Soil	6	32	0.68	305	0.051	1	2.55	0.014	0.04	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
1198106	Soil	7	19	0.40	215	0.043	<1	2.51	0.011	0.10	0.5	0.02	5.3	0.1	<0.05	9	<0.5	<0.2
1198155	Soil	64	7	0.44	229	0.006	<1	1.47	0.008	0.10	0.2	0.12	4.6	<0.1	<0.05	6	<0.5	<0.2
1198160	Soil	13	40	0.58	218	0.070	<1	2.36	0.010	0.06	<0.1	0.02	3.1	0.1	<0.05	7	<0.5	<0.2
1198202	Soil	33	33	1.64	316	0.110	<1	2.55	0.015	0.04	<0.1	0.03	9.1	<0.1	<0.05	12	<0.5	<0.2
1198203	Soil	5	21	0.84	274	0.127	<1	1.93	0.031	0.11	<0.1	<0.01	3.1	<0.1	<0.05	7	<0.5	<0.2
1198204	Soil	6	37	0.80	249	0.108	<1	2.01	0.033	0.09	<0.1	<0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
1198205	Soil	8	47	1.14	168	0.079	<1	1.89	0.039	0.07	<0.1	0.01	8.4	<0.1	<0.05	7	<0.5	<0.2
1198206	Soil	13	37	0.71	304	0.080	1	1.96	0.013	0.14	0.2	0.02	5.2	<0.1	<0.05	7	<0.5	<0.2
1198207	Soil	10	11	1.26	313	0.119	<1	2.38	0.048	0.27	<0.1	0.02	12.2	<0.1	<0.05	10	<0.5	<0.2
1198208	Soil	20	30	0.59	244	0.070	2	1.55	0.013	0.16	0.1	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2
1198209	Soil	12	33	0.73	359	0.047	1	1.86	0.011	0.10	0.1	<0.01	3.7	<0.1	<0.05	7	<0.5	<0.2
1198210	Soil	18	33	0.55	436	0.052	2	1.96	0.011	0.12	0.1	0.02	5.7	<0.1	0.05	6	<0.5	<0.2
1198211	Soil	33	15	0.76	344	0.216	1	2.21	0.010	0.84	<0.1	<0.01	7.6	0.3	0.07	9	<0.5	<0.2
1198212	Soil	34	21	0.72	238	0.149	1	1.93	0.011	0.54	<0.1	<0.01	6.8	0.2	0.08	8	<0.5	<0.2
1198213	Soil	15	39	0.76	619	0.084	1	2.34	0.013	0.09	0.1	0.02	4.3	<0.1	0.06	8	<0.5	<0.2
1198214	Soil	16	38	0.57	442	0.065	1	1.72	0.015	0.06	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
1198215	Soil	27	11	0.68	244	0.073	1	1.87	0.007	0.23	<0.1	0.07	6.1	0.1	<0.05	8	<0.5	<0.2
1198216	Soil	16	37	0.48	359	0.059	1	1.88	0.011	0.12	0.2	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2
1198217	Soil	18	28	0.51	348	0.061	2	1.56	0.019	0.17	0.1	0.05	5.8	<0.1	<0.05	5	<0.5	<0.2
1198218	Soil	18	32	0.55	363	0.112	2	1.80	0.016	0.24	0.2	0.02	6.7	<0.1	<0.05	7	<0.5	<0.2
1198219	Soil	19	38	0.76	330	0.038	2	2.36	0.012	0.15	0.1	0.02	7.3	<0.1	<0.05	9	<0.5	<0.2
1198220	Soil	15	102	1.62	218	0.146	1	2.57	0.016	0.27	0.1	0.06	10.5	0.1	<0.05	11	<0.5	<0.2
1198221	Soil	45	17	0.42	220	0.024	<1	1.48	0.011	0.21	<0.1	0.06	4.7	<0.1	<0.05	6	<0.5	<0.2
1198222	Soil	16	54	1.37	283	0.166	<1	2.23	0.032	0.38	<0.1	0.07	8.2	0.3	<0.05	9	<0.5	<0.2
1198223	Soil	16	36	2.35	524	0.197	<1	3.03	0.019	0.41	<0.1	0.20	17.7	0.4	<0.05	13	<0.5	<0.2





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CERTIFICATE OF ANALYSIS

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1198224	Soil	0.6	44.9	5.9	127	<0.1	25.2	12.8	864	3.92	5.8	1.2	2.2	9.1	31	<0.1	0.4	<0.1	64	0.67	0.102
1198225	Soil	1.0	44.8	4.9	72	0.3	23.1	8.5	686	3.36	3.4	0.9	5.5	6.1	77	<0.1	0.4	<0.1	25	5.76	0.043
1198226	Soil	1.3	12.7	8.2	63	0.1	14.5	8.2	838	2.25	5.6	0.4	1.3	3.5	28	0.1	0.3	0.1	40	0.40	0.046
1198227	Soil	0.8	31.9	57.6	251	0.2	17.3	9.4	828	4.17	6.7	1.2	1.5	9.7	25	0.3	0.4	0.3	50	0.36	0.064
1198228	Soil	1.4	33.7	17.2	137	0.2	16.9	13.2	1026	4.06	9.9	1.4	2.4	6.0	43	0.2	0.7	0.2	81	0.70	0.066
1198229	Soil	1.4	28.0	14.6	96	0.2	19.1	10.6	708	3.31	12.0	0.9	2.0	8.3	39	0.1	0.6	0.2	56	0.56	0.054
1198230	Soil	0.9	44.6	10.0	54	0.3	20.0	8.8	456	2.42	5.3	0.9	6.0	3.5	127	0.1	<0.1	0.1	36	7.96	0.053
1198231	Soil	1.1	27.8	8.9	93	0.2	20.9	8.4	486	3.18	9.0	0.7	0.9	4.7	29	<0.1	0.6	0.2	43	0.49	0.034
1198232	Soil	0.9	43.9	9.3	61	0.1	28.5	10.5	475	2.68	8.4	0.6	5.5	4.6	86	0.2	0.2	0.2	44	4.34	0.069
1198233	Soil	1.4	16.2	10.9	71	0.1	16.9	10.0	733	2.70	3.2	0.4	0.7	3.7	28	0.1	0.3	0.1	46	0.44	0.041
1198234	Soil	1.2	15.6	9.4	62	<0.1	17.0	9.0	405	2.43	8.4	0.4	0.8	3.4	30	0.1	0.4	0.1	50	0.43	0.034
1198235	Soil	0.2	63.6	2.6	68	<0.1	83.0	37.9	1591	4.98	2.0	0.3	<0.5	0.2	176	0.2	0.4	<0.1	172	8.90	0.038
1194661	Soil	1.0	21.5	8.9	66	<0.1	18.7	10.4	647	2.97	10.2	0.8	1.7	8.2	29	0.1	0.6	0.2	58	0.42	0.031
1194662	Soil	0.9	19.1	9.6	75	0.1	17.0	11.8	695	3.51	9.5	1.0	3.4	11.9	32	<0.1	0.4	0.2	61	0.51	0.053
1194663	Soil	20.9	83.1	14.1	187	0.3	68.6	12.0	287	3.49	21.9	2.5	5.3	8.6	52	0.6	0.5	0.2	105	0.43	0.069
1194664	Soil	7.7	59.1	15.6	130	0.3	56.5	11.2	297	3.10	67.4	1.8	3.7	7.6	34	0.4	0.8	0.2	53	0.59	0.077
1194665	Soil	4.6	54.5	11.3	96	0.4	43.9	10.0	348	2.52	36.2	1.2	5.0	4.7	65	0.4	0.7	0.2	48	2.29	0.090
1194666	Soil	12.0	62.5	12.1	169	0.4	61.1	10.5	236	3.23	83.1	4.6	0.7	7.9	71	0.7	0.5	0.2	103	0.58	0.083
1194667	Soil	3.0	43.8	13.9	128	0.3	44.3	13.3	543	3.48	72.9	1.0	2.2	6.1	57	0.7	1.1	0.2	84	0.44	0.082
1194668	Soil	2.1	38.4	16.4	106	0.2	33.7	18.2	814	3.54	260.5	3.1	2.9	6.8	56	0.3	0.9	0.2	76	0.52	0.046
1194669	Soil	1.3	20.6	15.2	69	0.1	23.1	11.1	530	2.73	24.8	0.6	3.7	6.1	36	0.2	0.7	0.2	60	0.43	0.022
1194670	Soil	1.6	15.6	12.0	78	<0.1	10.8	10.5	867	3.37	17.9	1.1	1.3	12.8	34	0.2	0.3	0.2	46	0.57	0.036
1194671	Soil	0.7	26.8	9.8	52	<0.1	24.3	10.6	415	2.63	11.6	0.5	1.9	6.1	33	<0.1	0.5	0.2	54	0.46	0.038
1194672	Soil	0.8	31.6	9.2	54	0.1	25.4	10.6	372	2.62	11.0	0.6	3.7	5.7	36	0.1	0.7	0.2	55	0.81	0.044
1194673	Soil	0.6	31.9	9.4	56	0.1	26.7	10.6	386	2.72	12.3	0.6	4.7	6.2	31	<0.1	0.7	0.2	57	0.49	0.048
1194674	Soil	0.8	24.9	8.9	58	<0.1	24.4	10.4	479	2.82	11.0	0.5	1.8	7.1	27	<0.1	0.5	0.2	58	0.40	0.041
1194675	Soil	1.0	27.4	7.1	77	<0.1	17.8	12.3	771	3.69	7.9	1.8	3.7	14.4	31	<0.1	0.5	0.1	70	0.46	0.063
1194676	Soil	0.8	19.7	8.9	62	<0.1	19.9	10.8	609	2.99	9.5	1.0	3.3	9.0	32	<0.1	0.5	0.2	60	0.45	0.032
1194677	Soil	0.9	21.7	10.0	51	<0.1	20.1	10.4	475	3.01	10.4	0.8	2.3	9.2	27	<0.1	0.5	0.2	56	0.42	0.024
1194678	Soil	1.2	21.3	10.0	74	<0.1	17.9	11.7	830	3.04	8.4	1.0	2.2	8.6	35	0.2	0.4	0.2	57	0.56	0.032

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1198224	Soil	23	59	1.12	209	0.131	<1	1.82	0.020	0.25	<0.1	0.04	6.7	0.2	<0.05	10	<0.5	<0.2
1198225	Soil	34	33	0.72	228	0.098	<1	1.67	0.013	0.13	<0.1	0.09	6.5	<0.1	<0.05	7	<0.5	<0.2
1198226	Soil	10	25	0.36	439	0.049	1	1.45	0.014	0.10	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
1198227	Soil	19	31	0.77	395	0.027	1	1.94	0.010	0.37	<0.1	0.12	8.0	<0.1	<0.05	9	<0.5	<0.2
1198228	Soil	16	34	0.72	475	0.089	2	2.61	0.014	0.16	0.1	0.02	8.6	<0.1	<0.05	9	<0.5	<0.2
1198229	Soil	17	32	0.53	511	0.047	1	2.06	0.013	0.11	<0.1	0.02	5.8	<0.1	<0.05	7	<0.5	<0.2
1198230	Soil	14	21	0.72	328	0.040	1	1.19	0.020	0.06	0.2	0.08	3.8	<0.1	<0.05	5	<0.5	<0.2
1198231	Soil	15	28	0.46	274	0.059	1	1.69	0.013	0.10	0.1	0.04	5.3	<0.1	<0.05	6	<0.5	<0.2
1198232	Soil	13	26	0.86	437	0.078	2	1.32	0.040	0.09	0.2	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
1198233	Soil	11	29	0.49	451	0.067	1	1.65	0.018	0.10	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
1198234	Soil	11	27	0.42	433	0.044	<1	1.40	0.011	0.07	0.2	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
1198235	Soil	4	281	4.27	159	0.027	<1	3.32	0.007	0.08	<0.1	<0.01	20.1	<0.1	<0.05	11	<0.5	<0.2
1194661	Soil	22	26	0.64	361	0.071	2	1.71	0.012	0.19	0.1	0.02	4.1	0.1	0.06	5	<0.5	<0.2
1194662	Soil	32	19	0.86	292	0.115	2	1.90	0.015	0.32	0.1	0.02	4.2	0.2	<0.05	7	0.9	<0.2
1194663	Soil	22	47	0.96	712	0.048	1	1.74	0.020	0.23	0.1	0.03	3.6	0.2	0.30	5	4.1	<0.2
1194664	Soil	20	30	0.66	554	0.050	2	1.34	0.014	0.16	0.1	0.06	3.8	0.1	0.05	4	1.9	<0.2
1194665	Soil	16	25	0.74	493	0.049	2	1.07	0.018	0.10	0.2	0.07	2.9	0.1	<0.05	3	0.8	<0.2
1194666	Soil	24	41	0.88	845	0.087	2	1.53	0.016	0.23	0.1	0.03	3.3	0.2	0.11	5	3.1	<0.2
1194667	Soil	19	33	0.89	1097	0.097	1	1.68	0.013	0.29	0.1	0.04	3.6	0.1	<0.05	5	0.8	<0.2
1194668	Soil	23	34	0.89	594	0.094	2	1.86	0.019	0.21	0.1	0.03	5.2	0.1	<0.05	7	0.8	<0.2
1194669	Soil	18	32	0.57	663	0.061	2	1.61	0.012	0.16	0.2	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
1194670	Soil	26	18	0.59	581	0.030	<1	1.83	0.010	0.17	0.1	0.03	3.5	<0.1	<0.05	7	0.5	<0.2
1194671	Soil	18	28	0.52	288	0.067	2	1.42	0.014	0.12	0.2	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
1194672	Soil	17	27	0.61	237	0.080	1	1.37	0.018	0.14	0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
1194673	Soil	18	28	0.61	229	0.082	1	1.41	0.017	0.15	0.2	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
1194674	Soil	20	27	0.55	278	0.094	1	1.43	0.013	0.30	0.2	0.02	4.4	0.1	<0.05	5	<0.5	<0.2
1194675	Soil	38	19	0.92	229	0.164	<1	1.83	0.018	0.36	0.1	0.03	4.5	0.3	<0.05	7	<0.5	<0.2
1194676	Soil	25	26	0.59	300	0.102	<1	1.71	0.011	0.21	0.1	0.02	4.6	0.1	<0.05	6	0.5	<0.2
1194677	Soil	22	28	0.58	411	0.074	1	1.69	0.014	0.21	0.1	0.02	4.5	0.1	<0.05	5	<0.5	<0.2
1194678	Soil	28	25	0.62	467	0.076	<1	1.84	0.013	0.26	0.2	0.03	4.5	<0.1	<0.05	6	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000308.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1194679	Soil	1.2	24.1	9.9	61	0.1	20.0	10.8	588	3.07	9.5	1.2	6.1	9.4	28	<0.1	0.5	0.1	58	0.50	0.028
1194680	Soil	1.3	24.6	8.8	68	0.1	16.8	12.1	783	3.59	9.4	1.2	5.6	13.3	45	0.1	0.5	0.1	56	1.44	0.057
1194681	Soil	1.7	12.8	9.2	64	<0.1	14.4	10.5	646	3.20	7.2	1.7	3.5	10.9	23	0.1	0.5	0.1	60	0.46	0.043
1194682	Soil	0.8	30.9	9.7	57	<0.1	25.9	11.9	445	2.95	12.0	0.8	4.5	6.5	31	<0.1	0.8	0.1	61	0.50	0.036
1194683	Soil	0.8	28.7	10.6	55	<0.1	26.3	11.3	378	2.96	11.5	1.2	3.4	8.1	22	<0.1	0.7	0.2	61	0.36	0.018
1194684	Soil	1.4	13.2	9.9	51	<0.1	14.8	9.3	591	2.77	5.7	1.1	2.9	5.6	29	0.1	0.4	0.2	57	0.37	0.029
1194685	Soil	1.1	17.8	13.8	51	<0.1	17.9	10.5	589	3.01	8.6	1.3	3.8	10.3	25	<0.1	0.4	0.1	49	0.41	0.035
1194686	Soil	0.8	35.2	7.5	55	0.2	21.2	10.8	459	2.40	9.8	0.7	4.4	3.4	83	0.3	0.6	0.1	55	3.61	0.079
1194687	Soil	0.7	37.8	9.4	63	0.1	25.9	12.1	415	2.85	10.5	0.6	3.8	5.1	39	<0.1	0.7	0.2	62	0.40	0.047
1194688	Soil	0.8	47.0	10.5	64	0.1	29.9	12.9	418	2.93	11.7	0.6	2.7	4.5	41	0.1	0.7	0.1	69	1.03	0.055
1194689	Soil	1.1	35.5	7.3	71	<0.1	20.0	18.1	683	3.59	6.7	0.4	1.1	3.8	75	<0.1	0.3	0.1	89	0.62	0.054
1194690	Soil	4.1	43.7	18.3	100	0.2	38.4	12.3	400	3.15	30.0	1.2	2.5	7.1	33	0.2	0.8	0.3	56	0.38	0.038
1194766	Soil	0.8	16.5	10.1	48	<0.1	19.3	8.1	217	2.60	8.9	0.8	1.9	6.0	24	<0.1	0.6	0.1	56	0.36	0.016
1194767	Soil	0.9	22.3	68.7	72	<0.1	11.6	11.4	751	3.42	5.3	1.4	0.6	16.1	26	0.1	0.2	0.1	47	0.53	0.068
1194768	Soil	1.2	18.2	9.6	45	<0.1	18.5	9.6	265	2.59	13.3	0.6	1.5	6.5	23	0.1	0.5	0.2	54	0.32	0.028
1194769	Soil	1.3	16.4	9.4	46	<0.1	18.6	9.3	419	2.61	8.5	0.6	2.9	4.5	28	0.1	0.5	0.1	58	0.38	0.026
1035453	Soil	0.6	29.1	9.4	49	0.1	25.6	12.6	654	2.76	8.8	1.0	2.0	4.4	33	<0.1	0.7	0.2	66	0.49	0.027
1035454	Soil	0.7	30.1	7.4	42	<0.1	22.4	11.1	252	2.47	8.1	0.5	3.2	4.2	28	<0.1	0.5	0.1	58	0.33	0.023
1035455	Soil	0.6	20.1	6.7	58	<0.1	19.6	10.5	291	2.92	7.9	0.6	<0.5	5.1	51	<0.1	0.5	<0.1	53	0.24	0.019
1035456	Soil	0.7	71.4	5.1	61	<0.1	21.6	20.3	477	3.49	7.5	0.4	1.0	1.7	35	<0.1	0.6	<0.1	90	0.76	0.159
1035459	Soil	0.5	33.3	7.0	48	<0.1	24.8	11.3	278	2.72	8.0	0.7	1.6	4.1	42	<0.1	0.7	0.1	68	0.37	0.026
1035461	Soil	0.7	24.8	8.3	86	<0.1	17.8	16.2	639	4.60	4.4	1.3	4.4	24.0	47	<0.1	0.3	<0.1	53	0.46	0.085
1035465	Soil	0.6	23.7	7.2	101	<0.1	17.7	17.4	670	4.70	4.5	0.7	1.0	9.2	41	<0.1	0.3	<0.1	55	0.53	0.108
1035467	Soil	0.6	24.8	5.8	85	<0.1	23.1	20.5	620	4.29	3.9	0.4	<0.5	2.9	39	<0.1	0.1	<0.1	66	0.42	0.095
1035468	Soil	1.2	12.5	8.5	40	<0.1	13.9	6.5	194	2.65	9.9	0.3	1.2	2.2	11	<0.1	0.4	0.2	70	0.12	0.038
1035469	Soil	0.9	26.8	9.4	51	<0.1	24.8	12.6	284	2.78	9.0	0.6	2.0	3.5	17	<0.1	0.6	0.1	62	0.16	0.029
1035470	Soil	0.7	30.6	8.1	50	<0.1	23.5	10.9	270	2.66	8.5	1.0	1.9	4.6	26	<0.1	0.5	0.1	63	0.26	0.011
1035471	Soil	0.5	19.6	6.0	61	<0.1	17.3	14.2	433	3.42	6.5	0.6	0.8	6.9	19	<0.1	0.4	<0.1	66	0.22	0.028
1192194	Soil	0.6	28.7	8.2	59	0.1	20.7	11.7	405	2.74	6.2	0.8	1.0	5.6	36	<0.1	0.4	<0.1	55	0.52	0.058
1192445	Soil	1.6	46.1	8.4	107	<0.1	14.9	16.3	561	4.16	3.9	0.4	<0.5	7.0	46	0.1	0.2	<0.1	63	0.51	0.106

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 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000308.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1194679	Soil	28	27	0.67	340	0.075	2	1.87	0.013	0.21	0.1	0.02	4.7	0.1	<0.05	6	<0.5	<0.2
1194680	Soil	46	23	0.89	838	0.035	2	1.91	0.013	0.17	<0.1	0.03	6.0	<0.1	<0.05	7	0.9	<0.2
1194681	Soil	27	22	0.62	404	0.035	1	1.97	0.013	0.17	<0.1	0.02	4.4	<0.1	<0.05	7	<0.5	<0.2
1194682	Soil	19	28	0.68	195	0.106	<1	1.62	0.017	0.11	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
1194683	Soil	23	33	0.55	198	0.078	<1	1.57	0.014	0.10	0.1	0.04	5.5	<0.1	<0.05	5	<0.5	<0.2
1194684	Soil	11	26	0.40	400	0.061	1	1.73	0.014	0.15	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
1194685	Soil	28	25	0.47	382	0.043	1	1.66	0.012	0.16	0.1	0.03	4.8	<0.1	<0.05	5	0.7	<0.2
1194686	Soil	12	20	0.87	260	0.095	2	1.15	0.019	0.21	0.2	0.04	2.4	0.1	<0.05	4	<0.5	<0.2
1194687	Soil	15	30	0.70	237	0.099	2	1.49	0.013	0.27	0.2	0.04	4.1	0.1	<0.05	4	<0.5	<0.2
1194688	Soil	14	30	0.86	241	0.111	1	1.65	0.017	0.26	0.2	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
1194689	Soil	10	37	1.24	303	0.177	<1	2.14	0.013	0.57	0.1	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
1194690	Soil	22	35	0.60	296	0.071	1	1.44	0.013	0.18	0.2	0.03	4.1	0.1	<0.05	4	0.8	<0.2
1194766	Soil	15	30	0.43	187	0.067	<1	1.48	0.011	0.08	0.1	0.02	3.1	<0.1	<0.05	4	0.7	<0.2
1194767	Soil	25	14	0.74	419	0.027	2	1.91	0.010	0.29	<0.1	0.02	5.9	0.2	<0.05	6	0.8	<0.2
1194768	Soil	12	26	0.45	337	0.042	<1	1.56	0.010	0.10	0.1	<0.01	3.5	<0.1	<0.05	5	0.5	<0.2
1194769	Soil	21	29	0.43	302	0.064	<1	1.51	0.011	0.08	0.2	0.03	2.8	<0.1	<0.05	5	1.0	<0.2
1035453	Soil	15	33	0.61	379	0.081	<1	1.60	0.022	0.05	0.1	0.03	4.5	<0.1	<0.05	5	0.8	<0.2
1035454	Soil	11	33	0.59	218	0.082	<1	1.51	0.014	0.05	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
1035455	Soil	11	36	0.84	134	0.143	<1	2.09	0.009	0.10	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
1035456	Soil	5	29	1.21	189	0.086	<1	2.33	0.026	0.08	0.1	0.01	6.4	<0.1	<0.05	7	<0.5	<0.2
1035459	Soil	14	38	0.69	225	0.103	<1	1.68	0.016	0.05	0.1	0.03	5.2	<0.1	<0.05	5	0.6	<0.2
1035461	Soil	18	24	1.14	235	0.225	<1	2.35	0.009	0.73	0.2	0.02	2.9	0.3	<0.05	7	0.7	<0.2
1035465	Soil	17	24	1.21	282	0.238	<1	2.48	0.009	1.04	0.1	0.03	2.6	0.4	<0.05	7	<0.5	<0.2
1035467	Soil	8	25	1.51	211	0.224	<1	2.72	0.009	0.82	0.1	0.01	1.7	0.3	<0.05	7	<0.5	<0.2
1035468	Soil	7	41	0.43	94	0.071	<1	1.40	0.009	0.04	0.2	0.01	1.9	<0.1	<0.05	6	0.5	<0.2
1035469	Soil	9	36	0.50	214	0.065	<1	2.24	0.010	0.04	0.2	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
1035470	Soil	14	38	0.59	238	0.080	<1	1.95	0.013	0.04	<0.1	0.04	5.9	<0.1	<0.05	5	<0.5	<0.2
1035471	Soil	16	26	0.82	177	0.132	<1	2.14	0.010	0.26	<0.1	0.03	2.5	0.1	<0.05	7	0.7	<0.2
1192194	Soil	15	31	0.71	251	0.120	<1	1.58	0.017	0.18	0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
1192445	Soil	9	31	1.22	194	0.191	<1	2.11	0.008	0.81	0.2	0.01	2.3	0.3	<0.05	8	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000308.2

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1193537	Soil	0.7	38.2	6.9	109	<0.1	16.6	18.5	803	4.34	3.4	0.7	<0.5	4.6	32	<0.1	0.2	<0.1	97	0.41	0.025
1035466	Soil	0.7	22.7	8.4	105	<0.1	27.2	15.3	605	4.35	7.3	1.1	2.2	10.9	46	0.1	0.3	<0.1	64	0.43	0.047
1193602	Soil	1.0	21.3	10.8	65	<0.1	18.3	12.5	364	2.85	5.4	0.5	1.0	3.8	39	0.1	0.3	0.1	62	0.50	0.069
1193603	Soil	1.5	43.6	9.0	80	<0.1	31.0	22.4	609	3.73	4.6	1.4	1.0	11.0	54	0.1	0.2	<0.1	72	0.65	0.088
1193604	Soil	1.2	35.2	12.4	69	<0.1	26.3	14.6	379	3.17	6.3	1.0	2.4	7.0	37	<0.1	0.4	0.1	66	0.47	0.051
1193605	Soil	1.4	49.7	16.7	134	<0.1	29.9	26.6	946	4.82	3.8	1.0	4.3	10.9	59	0.2	0.2	<0.1	96	0.80	0.123
1193606	Soil	0.7	22.0	7.9	57	<0.1	20.6	9.8	353	2.36	7.8	0.8	1.9	3.7	35	0.2	0.6	0.1	54	0.56	0.056
1193608	Soil	1.3	22.4	10.7	53	<0.1	15.0	9.4	334	2.53	5.2	0.4	2.3	2.6	36	0.2	0.4	0.1	55	0.44	0.054
1193627	Soil	0.8	22.5	8.1	45	<0.1	19.2	9.5	263	2.39	7.8	0.7	9.8	3.0	32	0.2	0.4	0.1	57	0.48	0.035
1193637	Soil	0.8	34.7	8.4	76	<0.1	21.4	13.8	494	3.24	7.0	1.3	1.3	5.6	54	0.1	0.4	0.1	55	0.63	0.087
1193801	Soil	0.6	12.9	11.4	55	<0.1	6.1	10.2	615	3.57	2.7	1.1	0.9	14.3	24	<0.1	0.9	<0.1	64	0.33	0.018
1198102	Soil	1.2	22.8	8.5	58	0.1	57.4	15.6	401	3.23	12.3	0.3	<0.5	1.7	19	0.1	0.5	0.1	66	0.23	0.053
1198103	Soil	0.7	18.3	8.6	47	<0.1	19.8	9.7	212	2.53	6.3	0.6	2.5	3.3	15	<0.1	0.4	0.1	59	0.15	0.014
1192285	Soil	2.0	42.7	6.7	130	<0.1	30.8	17.5	616	5.50	4.0	1.2	<0.5	9.0	19	0.2	0.1	0.4	172	0.41	0.089
1192465	Soil	0.8	22.0	9.4	52	<0.1	20.8	9.8	243	2.82	8.2	0.9	1.9	5.1	20	<0.1	0.5	0.2	65	0.18	0.013
1192466	Soil	0.7	20.7	4.8	90	<0.1	12.0	15.0	457	4.55	5.5	0.8	0.7	3.7	19	<0.1	0.3	<0.1	62	0.47	0.113
1192467	Soil	6.1	43.5	12.5	135	0.1	54.1	14.7	517	3.30	111.0	1.3	<0.5	5.8	12	0.7	1.4	0.2	43	0.12	0.052
1192468	Soil	0.7	15.8	9.9	41	0.3	14.4	5.9	134	2.00	7.5	0.7	1.2	1.5	15	0.1	0.4	0.2	55	0.16	0.025
1194487	Soil	0.4	16.2	6.1	81	<0.1	7.8	11.4	799	3.76	3.9	1.2	<0.5	24.7	18	<0.1	0.2	<0.1	61	0.16	0.020
1194488	Soil	0.6	42.7	12.7	118	<0.1	15.3	15.2	781	3.74	6.1	1.9	<0.5	20.8	41	<0.1	0.4	0.2	70	0.31	0.028
1194489	Soil	0.7	14.5	9.3	64	<0.1	20.4	8.9	368	2.43	7.8	0.4	1.7	4.3	16	<0.1	0.5	0.1	62	0.15	0.021
1194490	Soil	0.7	21.5	9.0	58	<0.1	21.7	10.0	333	2.74	9.3	0.8	2.7	7.6	27	<0.1	0.6	0.1	61	0.23	0.020
1194491	Soil	0.4	32.1	5.8	68	<0.1	17.8	21.9	939	4.61	4.0	1.0	<0.5	6.8	41	<0.1	2.1	<0.1	99	0.90	0.043
1194492	Soil	0.7	17.4	6.4	54	<0.1	14.2	8.2	234	3.44	6.1	0.4	<0.5	2.4	16	<0.1	0.4	<0.1	71	0.28	0.039
1194493	Soil	0.8	15.6	7.6	51	<0.1	16.4	7.7	326	3.20	8.0	0.5	0.9	5.1	17	<0.1	0.5	0.1	47	0.16	0.017
1194494	Soil	0.4	28.1	3.0	60	<0.1	16.2	18.6	519	3.71	6.1	0.3	<0.5	4.2	48	<0.1	<0.1	<0.1	74	0.77	0.097
1194495	Soil	0.6	26.4	6.8	49	<0.1	21.5	11.6	346	3.05	9.9	0.3	3.0	3.8	37	<0.1	0.4	0.1	68	0.42	0.033
1194496	Soil	0.6	51.0	4.5	31	<0.1	67.4	14.1	219	2.17	7.2	0.5	1.0	3.0	13	<0.1	0.4	<0.1	41	0.19	0.014
1194497	Soil	0.6	28.1	5.6	36	<0.1	27.4	11.2	289	2.41	7.9	0.3	<0.5	3.1	108	<0.1	0.3	<0.1	53	0.42	0.037
1194498	Soil	1.0	13.1	7.8	49	<0.1	18.5	9.0	467	2.60	8.5	0.4	2.6	3.6	25	<0.1	0.4	0.1	57	0.22	0.026

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1193537	Soil	11	34	1.79	264	0.156	<1	2.69	0.007	0.45	<0.1	0.01	3.2	0.2	<0.05	7	<0.5	<0.2
1035466	Soil	40	39	1.49	202	0.245	<1	2.73	0.010	0.62	0.2	0.01	4.0	0.4	<0.05	8	0.5	<0.2
1193602	Soil	8	37	0.93	136	0.146	<1	1.56	0.013	0.24	0.2	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
1193603	Soil	14	74	1.52	213	0.199	<1	2.08	0.014	0.44	0.1	0.04	3.2	0.3	<0.05	8	0.7	<0.2
1193604	Soil	20	42	0.87	198	0.130	<1	1.78	0.015	0.12	0.2	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
1193605	Soil	13	71	2.26	180	0.306	<1	2.71	0.013	1.14	0.2	0.03	2.6	0.6	<0.05	9	<0.5	<0.2
1193606	Soil	12	29	0.51	266	0.076	<1	1.36	0.020	0.07	0.2	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2
1193608	Soil	9	27	0.61	176	0.090	<1	1.29	0.012	0.14	0.1	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
1193627	Soil	12	29	0.50	246	0.071	<1	1.46	0.016	0.06	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
1193637	Soil	16	32	0.84	271	0.130	<1	1.71	0.018	0.20	0.2	0.04	3.0	<0.1	<0.05	6	<0.5	<0.2
1193801	Soil	34	11	0.96	162	0.015	<1	2.11	0.007	0.20	0.2	0.04	6.1	0.1	<0.05	7	<0.5	<0.2
1198102	Soil	6	70	1.05	249	0.057	<1	3.02	0.008	0.05	0.3	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
1198103	Soil	9	32	0.47	177	0.065	<1	1.73	0.008	0.04	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1192285	Soil	20	47	1.64	410	0.249	<1	3.28	0.013	1.03	0.2	0.01	7.5	0.5	<0.05	11	<0.5	<0.2
1192465	Soil	17	38	0.45	262	0.065	<1	1.88	0.011	0.03	<0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
1192466	Soil	15	19	0.96	286	0.139	<1	2.24	0.018	0.08	<0.1	<0.01	5.9	<0.1	<0.05	10	<0.5	<0.2
1192467	Soil	16	30	0.20	203	0.016	<1	0.95	0.006	0.05	<0.1	0.03	2.9	0.1	<0.05	3	0.9	<0.2
1192468	Soil	10	26	0.35	242	0.045	<1	1.52	0.010	0.04	<0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
1194487	Soil	49	13	1.04	142	0.189	<1	2.25	0.010	0.46	<0.1	0.02	5.2	0.3	<0.05	9	<0.5	<0.2
1194488	Soil	16	21	1.02	182	0.207	<1	2.70	0.010	0.08	<0.1	0.02	2.4	<0.1	<0.05	8	<0.5	<0.2
1194489	Soil	10	33	0.44	214	0.058	<1	1.72	0.012	0.05	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1194490	Soil	19	35	0.50	201	0.059	<1	1.72	0.010	0.06	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
1194491	Soil	23	38	1.33	462	0.030	<1	2.72	0.008	0.11	<0.1	0.02	8.5	<0.1	<0.05	8	<0.5	<0.2
1194492	Soil	7	23	0.56	209	0.090	<1	1.74	0.016	0.02	<0.1	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
1194493	Soil	12	30	0.43	192	0.058	1	2.21	0.010	0.05	<0.1	0.02	4.3	<0.1	<0.05	8	<0.5	<0.2
1194494	Soil	6	15	1.24	326	0.220	1	3.10	0.030	0.17	<0.1	0.01	3.4	<0.1	<0.05	8	<0.5	<0.2
1194495	Soil	8	37	0.67	210	0.088	1	2.32	0.017	0.05	0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
1194496	Soil	9	159	0.88	145	0.046	<1	1.46	0.010	0.03	0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
1194497	Soil	5	44	0.76	230	0.098	1	2.37	0.041	0.08	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1194498	Soil	9	34	0.48	227	0.054	1	1.87	0.013	0.05	0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000308.2

Method Analyte	Unit	MDL	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
1194499	Soil		0.9	14.2	6.9	60	<0.1	16.2	10.2	632	2.75	9.1	0.3	<0.5	2.3	25	<0.1	0.4	0.2	64	0.32	0.087
1194500	Soil		0.8	13.0	6.3	55	<0.1	17.0	8.2	410	2.81	8.6	0.3	1.2	3.6	24	<0.1	0.8	0.1	52	0.40	0.048
1194933	Soil		2.3	72.1	9.1	83	<0.1	69.1	36.9	634	5.53	62.2	2.3	1.3	24.9	21	<0.1	0.2	0.2	96	0.36	0.063
1194934	Soil		1.3	21.2	10.1	76	<0.1	31.4	14.4	481	4.09	19.4	0.8	<0.5	15.7	22	<0.1	0.4	0.1	57	0.35	0.044
1194935	Soil		0.8	17.0	21.7	90	<0.1	17.2	13.3	557	3.72	8.8	0.6	0.7	6.9	42	<0.1	0.4	0.1	74	0.39	0.018
1197987	Soil		0.7	14.4	7.3	47	<0.1	19.9	8.5	393	2.47	8.2	0.4	0.9	4.1	20	<0.1	0.5	0.2	51	0.22	0.017
1197988	Soil		0.8	20.7	8.3	58	<0.1	23.1	10.0	293	2.97	12.0	0.7	5.1	5.2	25	<0.1	0.5	0.2	57	0.27	0.030
1197989	Soil		0.8	39.3	7.2	79	<0.1	38.9	20.8	595	4.57	9.6	0.9	1.6	6.8	46	<0.1	0.3	0.1	97	0.59	0.060
1197990	Soil		1.0	15.4	8.3	80	<0.1	20.3	13.0	459	3.71	8.3	0.6	1.3	8.6	53	<0.1	0.4	0.1	57	0.51	0.047
1197991	Soil		0.8	30.4	5.5	111	<0.1	19.2	20.7	880	4.97	4.8	1.5	<0.5	23.9	41	<0.1	0.1	<0.1	59	0.51	0.114
1197992	Soil		0.7	32.8	8.5	54	<0.1	31.4	11.4	392	2.86	13.0	0.4	2.8	5.1	28	<0.1	0.6	0.1	54	0.46	0.036
1197993	Soil		0.8	22.0	7.0	56	<0.1	19.6	11.2	360	3.07	6.7	0.5	2.4	4.9	27	<0.1	0.4	0.1	64	0.43	0.041
1197994	Soil		1.1	18.1	8.8	54	<0.1	21.0	12.4	570	3.23	8.2	0.6	<0.5	5.5	28	<0.1	1.2	0.1	64	0.43	0.030
1197995	Soil		1.0	29.4	7.2	63	<0.1	25.3	13.2	438	3.23	9.0	0.7	3.6	7.9	33	<0.1	0.4	0.1	62	0.54	0.053
1197996	Soil		1.6	30.6	7.7	60	<0.1	25.6	13.2	479	3.16	8.5	0.8	1.8	9.0	36	<0.1	0.4	0.1	63	0.61	0.051
1197997	Soil		1.1	18.2	8.5	56	<0.1	22.5	11.7	447	3.08	10.4	0.6	1.1	6.8	27	<0.1	0.5	0.2	63	0.43	0.029
1197998	Soil		1.2	15.6	6.0	54	<0.1	13.5	9.9	327	3.00	4.9	0.5	<0.5	6.9	19	<0.1	1.5	0.1	49	0.33	0.053
1197999	Soil		0.9	20.3	7.0	52	<0.1	18.9	11.8	336	2.78	8.6	0.9	1.6	7.5	28	<0.1	0.4	0.1	60	0.44	0.034
1194564	Soil		0.6	12.4	8.5	82	<0.1	12.1	11.0	454	3.57	6.7	1.3	0.5	13.8	43	<0.1	0.3	<0.1	55	0.56	0.050
1194566	Soil		0.6	14.0	9.2	82	<0.1	13.1	11.4	443	3.68	7.2	1.4	0.5	16.3	41	<0.1	0.3	<0.1	56	0.56	0.046
1194616	Soil		0.7	25.7	7.6	60	<0.1	24.6	10.7	359	3.00	9.4	0.9	1.3	9.4	29	<0.1	0.5	0.1	60	0.31	0.023
1194617	Soil		0.8	12.8	10.0	74	<0.1	17.7	10.5	466	3.23	8.2	0.8	1.0	13.5	26	<0.1	0.4	0.2	58	0.31	0.034
1194623	Soil		0.5	20.0	6.9	49	<0.1	8.9	7.5	287	2.97	4.8	1.5	0.5	21.9	20	<0.1	0.3	<0.1	35	0.27	0.035
1194655	Soil		0.7	17.5	7.3	65	<0.1	17.1	10.5	355	3.01	10.0	0.5	2.1	3.5	27	<0.1	0.6	0.1	67	0.21	0.026
1194656	Soil		0.6	15.0	7.9	69	<0.1	14.9	9.0	423	2.99	8.3	0.9	0.6	12.6	17	<0.1	0.4	<0.1	53	0.14	0.022
1194787	Soil		0.6	28.4	6.8	48	<0.1	23.2	7.1	250	2.59	8.5	1.3	3.7	8.8	21	<0.1	0.5	0.1	51	0.28	0.039
1194788	Soil		0.7	18.7	9.3	64	<0.1	21.6	9.3	354	2.81	7.4	0.9	3.2	7.6	15	<0.1	0.4	0.2	54	0.15	0.017
1194789	Soil		0.8	22.4	12.3	95	<0.1	22.9	13.4	537	3.88	10.9	1.0	1.6	13.1	43	0.1	0.6	0.1	70	0.40	0.025
1195508	Soil		0.6	11.2	7.0	78	<0.1	13.0	11.0	475	3.16	6.2	0.7	<0.5	8.8	29	<0.1	0.4	0.1	56	0.28	0.026
1195509	Soil		0.8	18.6	7.7	71	<0.1	19.6	10.1	417	3.20	8.4	0.6	<0.5	5.7	30	<0.1	0.6	0.1	63	0.29	0.022

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Project: HEN  
 Report Date: July 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11000308.2

Method Analyte	1DX15																	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1194499	Soil	7	26	0.59	276	0.073	1	1.97	0.015	0.06	0.1	0.02	2.4	0.1	<0.05	6	<0.5	<0.2
1194500	Soil	8	28	0.58	195	0.085	1	1.65	0.012	0.14	0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
1194933	Soil	34	63	1.20	386	0.187	1	2.99	0.015	0.65	<0.1	<0.01	11.8	0.5	<0.05	11	<0.5	<0.2
1194934	Soil	10	45	0.92	275	0.080	1	2.44	0.011	0.21	<0.1	0.02	3.5	0.1	<0.05	9	<0.5	<0.2
1194935	Soil	11	29	0.96	248	0.156	<1	2.67	0.013	0.06	0.1	0.01	2.6	<0.1	<0.05	7	<0.5	<0.2
1197987	Soil	10	29	0.48	229	0.064	1	1.45	0.011	0.07	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
1197988	Soil	12	37	0.53	201	0.096	<1	1.81	0.012	0.17	0.2	0.02	4.1	0.1	<0.05	5	<0.5	<0.2
1197989	Soil	19	87	1.56	231	0.220	1	2.75	0.014	0.42	0.2	0.02	7.6	0.3	<0.05	9	<0.5	<0.2
1197990	Soil	17	32	0.80	183	0.183	1	2.26	0.011	0.29	0.2	0.01	3.1	0.1	<0.05	7	<0.5	<0.2
1197991	Soil	20	25	1.47	223	0.281	<1	2.90	0.011	1.39	0.2	<0.01	2.9	0.7	<0.05	9	<0.5	<0.2
1197992	Soil	17	31	0.57	238	0.075	1	1.42	0.025	0.08	0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
1197993	Soil	12	34	0.74	206	0.092	<1	1.77	0.017	0.07	0.2	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
1197994	Soil	9	41	0.79	221	0.109	1	1.91	0.018	0.15	0.1	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
1197995	Soil	18	42	0.92	226	0.145	1	1.85	0.023	0.21	0.2	0.04	4.2	0.1	<0.05	6	<0.5	<0.2
1197996	Soil	16	41	0.85	257	0.124	2	1.84	0.027	0.22	0.2	0.07	4.2	0.2	<0.05	6	<0.5	<0.2
1197997	Soil	11	38	0.65	247	0.108	1	1.96	0.019	0.20	0.2	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
1197998	Soil	10	22	0.61	182	0.095	2	1.63	0.016	0.24	0.1	0.03	3.0	0.1	<0.05	6	<0.5	<0.2
1197999	Soil	20	37	0.73	199	0.120	3	1.79	0.038	0.15	0.1	0.02	4.0	0.2	0.14	5	<0.5	<0.2
1194564	Soil	28	20	0.71	209	0.142	<1	2.24	0.011	0.07	<0.1	0.01	2.2	<0.1	<0.05	7	<0.5	<0.2
1194566	Soil	31	21	0.73	214	0.142	<1	2.31	0.012	0.07	<0.1	0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
1194616	Soil	28	35	0.66	216	0.086	<1	2.01	0.020	0.06	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
1194617	Soil	17	29	0.56	245	0.094	<1	2.35	0.011	0.14	0.1	0.02	2.5	0.1	<0.05	7	<0.5	<0.2
1194623	Soil	32	14	0.50	231	0.036	<1	1.79	0.011	0.31	<0.1	0.02	3.0	0.2	<0.05	6	<0.5	<0.2
1194655	Soil	10	28	0.65	225	0.081	<1	1.77	0.007	0.05	0.1	0.02	3.0	<0.1	<0.05	6	0.6	<0.2
1194656	Soil	12	23	0.55	190	0.093	<1	1.87	0.008	0.21	0.1	<0.01	2.8	0.2	<0.05	6	<0.5	<0.2
1194787	Soil	23	32	0.47	183	0.077	<1	1.40	0.014	0.06	0.1	0.02	5.8	<0.1	<0.05	4	<0.5	<0.2
1194788	Soil	17	33	0.51	177	0.062	<1	1.76	0.012	0.05	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
1194789	Soil	21	32	0.85	271	0.173	1	2.49	0.014	0.09	<0.1	0.01	3.8	<0.1	<0.05	8	<0.5	<0.2
1195508	Soil	19	22	0.67	306	0.106	<1	2.05	0.009	0.30	<0.1	0.02	2.6	0.2	<0.05	7	<0.5	<0.2
1195509	Soil	12	31	0.67	283	0.085	<1	2.14	0.009	0.07	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





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Project: HEN  
 Report Date: July 19, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1195510	Soil	0.7	18.2	8.2	57	<0.1	18.9	10.7	391	2.91	8.0	0.7	1.0	4.4	22	<0.1	0.5	0.1	57	0.25	0.024
1195511	Soil	0.5	11.6	5.7	37	<0.1	9.2	6.1	291	2.29	4.9	0.7	1.3	4.6	17	<0.1	0.4	0.1	35	0.23	0.014
1195512	Soil	1.0	20.9	8.7	49	0.1	23.9	9.7	398	2.69	9.7	0.4	2.1	3.6	17	<0.1	0.6	0.2	61	0.18	0.016
1195513	Soil	0.9	21.0	8.8	46	<0.1	21.9	8.9	229	2.59	8.4	0.5	5.6	3.6	11	<0.1	0.6	0.2	59	0.13	0.020
1195514	Soil	0.9	15.6	8.1	73	<0.1	15.0	12.0	557	3.77	9.3	0.4	1.3	7.3	25	<0.1	0.6	0.1	79	0.32	0.029
1195515	Soil	1.0	26.5	9.0	53	<0.1	24.0	10.2	353	2.89	9.9	0.7	4.7	4.8	15	<0.1	0.7	0.2	64	0.16	0.018
1195516	Soil	0.8	16.1	7.6	76	<0.1	15.8	12.6	510	3.82	8.6	0.7	1.2	7.2	21	<0.1	1.0	0.1	72	0.25	0.028
1195517	Soil	1.1	18.1	9.1	55	<0.1	23.4	9.7	265	2.98	9.6	0.4	8.0	3.7	16	<0.1	0.6	0.2	63	0.17	0.017
1195518	Soil	0.6	13.3	6.6	71	<0.1	15.2	10.1	401	3.11	7.3	0.4	1.8	5.2	20	<0.1	0.4	<0.1	53	0.24	0.030
1195519	Soil	0.5	17.9	6.6	60	<0.1	17.1	10.3	374	2.95	7.4	0.7	10.8	4.9	119	<0.1	0.5	<0.1	49	0.48	0.025
1195520	Soil	0.9	18.8	9.2	62	<0.1	21.5	10.2	328	2.98	9.2	0.6	0.7	5.6	20	<0.1	0.5	0.2	66	0.19	0.022
1195526	Soil	0.8	20.2	7.1	67	<0.1	18.9	10.9	384	3.23	8.3	0.6	2.2	6.4	26	<0.1	0.5	0.1	64	0.29	0.034
1195527	Soil	0.6	24.5	6.9	71	<0.1	17.5	12.3	402	3.25	7.4	0.9	3.2	10.9	34	<0.1	0.5	<0.1	56	0.34	0.029
1195533	Soil	0.9	16.5	8.2	52	<0.1	20.1	9.2	277	2.59	7.1	0.4	0.6	2.8	19	<0.1	0.5	0.1	62	0.13	0.020
1195534	Soil	0.6	15.1	9.0	65	<0.1	13.1	9.5	459	3.44	6.3	1.2	1.6	6.8	24	<0.1	0.4	0.1	71	0.41	0.058
1195535	Soil	0.5	21.7	8.9	85	<0.1	14.1	8.9	416	3.32	6.6	1.7	0.7	17.1	21	<0.1	0.4	0.1	47	0.25	0.028
1195536	Soil	0.6	26.3	8.1	87	<0.1	17.1	10.0	368	3.31	7.5	1.9	1.1	16.7	24	<0.1	0.5	0.1	56	0.31	0.026
1195555	Soil	1.1	7.6	7.6	34	<0.1	10.5	6.1	182	2.14	7.7	0.3	1.0	2.3	16	<0.1	0.5	0.1	53	0.28	0.017
1197330	Soil	1.1	9.5	7.8	42	<0.1	11.9	7.7	238	2.69	8.3	0.4	1.7	2.7	20	<0.1	0.6	0.1	57	0.34	0.023
1197333	Soil	1.0	15.2	15.8	69	<0.1	17.0	8.8	325	2.76	7.0	0.7	1.3	7.2	19	<0.1	0.4	0.3	59	0.18	0.019
1197334	Soil	4.3	29.6	8.5	64	<0.1	19.8	10.0	379	2.96	9.6	0.9	1.8	12.0	19	<0.1	0.5	0.2	60	0.20	0.025



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
1195510	Soil	11	29	0.62	240	0.092	<1	1.97	0.008	0.08	0.1	<0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
1195511	Soil	24	14	0.52	247	0.015	<1	1.61	0.007	0.06	0.3	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
1195512	Soil	10	37	0.46	254	0.054	<1	1.72	0.009	0.04	0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1195513	Soil	9	32	0.45	215	0.050	<1	1.93	0.008	0.04	0.2	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
1195514	Soil	9	24	0.96	247	0.122	<1	2.27	0.007	0.07	0.1	<0.01	2.1	<0.1	<0.05	8	<0.5	<0.2
1195515	Soil	16	38	0.50	232	0.068	<1	1.96	0.009	0.04	0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
1195516	Soil	11	25	0.84	229	0.149	<1	2.23	0.007	0.06	<0.1	<0.01	2.1	<0.1	<0.05	7	0.8	<0.2
1195517	Soil	8	36	0.49	236	0.054	<1	1.87	0.007	0.05	0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
1195518	Soil	9	21	0.69	251	0.085	<1	2.11	0.009	0.22	<0.1	0.01	1.8	0.1	<0.05	6	<0.5	<0.2
1195519	Soil	17	25	0.69	414	0.057	<1	2.08	0.010	0.05	<0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
1195520	Soil	10	35	0.54	216	0.077	<1	2.13	0.008	0.05	0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
1195526	Soil	9	28	0.73	160	0.145	<1	2.05	0.009	0.17	0.1	0.02	2.0	<0.1	<0.05	6	0.6	<0.2
1195527	Soil	28	26	0.74	285	0.111	<1	1.98	0.010	0.14	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
1195533	Soil	9	31	0.43	219	0.051	<1	1.61	0.008	0.04	0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
1195534	Soil	27	20	0.74	250	0.084	<1	2.09	0.011	0.12	0.1	0.02	4.9	0.1	<0.05	7	0.6	<0.2
1195535	Soil	32	20	0.55	242	0.039	<1	1.90	0.014	0.22	<0.1	0.04	3.5	0.1	<0.05	7	<0.5	<0.2
1195536	Soil	23	27	0.63	237	0.077	<1	1.89	0.012	0.21	<0.1	0.02	4.6	<0.1	<0.05	7	0.5	<0.2
1195555	Soil	8	20	0.39	201	0.031	<1	1.40	0.008	0.05	0.1	0.02	1.5	<0.1	<0.05	5	0.5	<0.2
1197330	Soil	7	23	0.46	213	0.028	<1	1.62	0.008	0.06	0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
1197333	Soil	20	29	0.50	196	0.050	<1	1.96	0.009	0.04	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
1197334	Soil	19	31	0.59	216	0.101	<1	2.00	0.011	0.21	0.1	0.01	2.8	0.2	<0.05	6	<0.5	<0.2



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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1197665	Soil	2.7	20.7	10.2	92	0.4	21.8	10.6	479	2.41	7.3	0.7	<0.5	2.2	31	1.1	0.4	0.2	83	0.45	0.086
REP 1197665	QC	2.5	20.7	9.9	91	0.3	22.1	10.3	476	2.37	7.3	0.7	3.2	2.1	31	1.1	0.5	0.2	83	0.44	0.089
1197682	Soil	0.5	35.7	4.3	110	0.1	12.9	13.9	716	5.82	9.3	1.6	1.1	2.6	30	0.1	0.3	<0.1	126	0.67	0.129
REP 1197682	QC	0.6	35.5	4.4	112	0.1	12.5	14.1	721	5.87	9.7	1.7	0.8	2.8	31	0.1	0.3	<0.1	129	0.67	0.128
1198209	Soil	1.0	19.6	9.5	103	<0.1	20.3	9.5	661	3.32	9.3	0.5	1.4	4.9	21	<0.1	0.4	0.1	47	0.32	0.053
REP 1198209	QC	1.1	19.9	9.4	102	<0.1	20.4	9.5	656	3.32	9.2	0.5	1.2	4.8	21	0.1	0.4	0.1	46	0.33	0.053
1198226	Soil	1.3	12.7	8.2	63	0.1	14.5	8.2	838	2.25	5.6	0.4	1.3	3.5	28	0.1	0.3	0.1	40	0.40	0.046
REP 1198226	QC	1.4	13.5	8.4	68	0.1	16.1	8.9	895	2.40	6.1	0.5	2.2	3.6	30	0.1	0.4	0.1	47	0.43	0.050
1194668	Soil	2.1	38.4	16.4	106	0.2	33.7	18.2	814	3.54	260.5	3.1	2.9	6.8	56	0.3	0.9	0.2	76	0.52	0.046
REP 1194668	QC	2.0	39.5	16.9	106	0.2	33.6	18.4	836	3.56	264.5	3.1	0.9	6.8	57	0.4	0.9	0.2	77	0.55	0.047
1035453	Soil	0.6	29.1	9.4	49	0.1	25.6	12.6	654	2.76	8.8	1.0	2.0	4.4	33	<0.1	0.7	0.2	66	0.49	0.027
REP 1035453	QC	0.6	28.6	9.4	49	0.1	25.6	12.6	644	2.71	8.4	1.0	0.9	4.3	32	<0.1	0.7	0.1	63	0.48	0.025
1035456	Soil	0.7	71.4	5.1	61	<0.1	21.6	20.3	477	3.49	7.5	0.4	1.0	1.7	35	<0.1	0.6	<0.1	90	0.76	0.159
REP 1035456	QC	0.7	72.5	5.2	61	<0.1	22.0	20.9	471	3.62	7.3	0.4	<0.5	1.7	36	<0.1	0.6	<0.1	92	0.77	0.155
1198102	Soil	1.2	22.8	8.5	58	0.1	57.4	15.6	401	3.23	12.3	0.3	<0.5	1.7	19	0.1	0.5	0.1	66	0.23	0.053
REP 1198102	QC	1.0	22.5	8.2	59	0.1	58.5	15.6	410	3.17	11.9	0.3	<0.5	1.8	19	0.1	0.5	0.1	68	0.22	0.056
1194495	Soil	0.6	26.4	6.8	49	<0.1	21.5	11.6	346	3.05	9.9	0.3	3.0	3.8	37	<0.1	0.4	0.1	68	0.42	0.033
REP 1194495	QC	0.7	27.5	6.7	50	<0.1	22.3	12.1	351	3.08	9.6	0.4	0.8	4.1	39	<0.1	0.4	0.1	71	0.44	0.034
1194566	Soil	0.6	14.0	9.2	82	<0.1	13.1	11.4	443	3.68	7.2	1.4	0.5	16.3	41	<0.1	0.3	<0.1	56	0.56	0.046
REP 1194566	QC	0.6	13.6	8.8	79	<0.1	13.1	11.2	427	3.59	6.6	1.3	1.5	16.1	42	<0.1	0.3	<0.1	54	0.56	0.048
1194656	Soil	0.6	15.0	7.9	69	<0.1	14.9	9.0	423	2.99	8.3	0.9	0.6	12.6	17	<0.1	0.4	<0.1	53	0.14	0.022
REP 1194656	QC	0.6	16.1	7.9	73	<0.1	15.4	9.6	417	3.03	8.6	0.9	<0.5	12.4	17	<0.1	0.4	0.1	55	0.16	0.022
1195513	Soil	0.9	21.0	8.8	46	<0.1	21.9	8.9	229	2.59	8.4	0.5	5.6	3.6	11	<0.1	0.6	0.2	59	0.13	0.020
REP 1195513	QC	0.9	21.3	9.5	46	<0.1	23.4	10.6	253	2.87	9.1	0.6	3.9	4.2	12	<0.1	0.6	0.2	63	0.14	0.021
1197333	Soil	1.0	15.2	15.8	69	<0.1	17.0	8.8	325	2.76	7.0	0.7	1.3	7.2	19	<0.1	0.4	0.3	59	0.18	0.019
REP 1197333	QC	0.9	15.9	16.5	70	<0.1	17.1	8.5	327	2.72	7.0	0.7	4.7	7.1	18	0.1	0.5	0.3	58	0.18	0.019
Reference Materials																					
STD DS8	Standard	13.8	116.7	127.9	320	1.8	40.7	7.6	602	2.40	25.2	2.7	107.4	6.7	61	2.1	5.3	6.6	44	0.66	0.077

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1197665	Soil	8	33	0.39	1216	0.041	<1	1.33	0.010	0.13	0.2	0.03	2.4	<0.1	<0.05	4	0.8	<0.2
REP 1197665	QC	9	32	0.39	1244	0.045	1	1.38	0.011	0.12	0.2	0.03	2.6	<0.1	<0.05	4	0.5	<0.2
1197682	Soil	16	9	1.08	552	0.226	<1	2.42	0.024	0.72	<0.1	0.04	11.6	0.2	<0.05	11	<0.5	<0.2
REP 1197682	QC	17	10	1.09	571	0.240	1	2.46	0.026	0.72	<0.1	0.04	12.1	0.2	<0.05	11	0.5	<0.2
1198209	Soil	12	33	0.73	359	0.047	1	1.86	0.011	0.10	0.1	<0.01	3.7	<0.1	<0.05	7	<0.5	<0.2
REP 1198209	QC	12	33	0.72	355	0.050	<1	1.88	0.012	0.10	0.1	0.01	3.6	<0.1	<0.05	7	<0.5	<0.2
1198226	Soil	10	25	0.36	439	0.049	1	1.45	0.014	0.10	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
REP 1198226	QC	11	28	0.38	469	0.053	2	1.54	0.016	0.11	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
1194668	Soil	23	34	0.89	594	0.094	2	1.86	0.019	0.21	0.1	0.03	5.2	0.1	<0.05	7	0.8	<0.2
REP 1194668	QC	24	35	0.87	609	0.098	3	1.85	0.013	0.21	0.1	0.03	5.6	0.1	<0.05	7	1.1	<0.2
1035453	Soil	15	33	0.61	379	0.081	<1	1.60	0.022	0.05	0.1	0.03	4.5	<0.1	<0.05	5	0.8	<0.2
REP 1035453	QC	15	33	0.60	372	0.078	<1	1.61	0.022	0.05	0.1	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
1035456	Soil	5	29	1.21	189	0.086	<1	2.33	0.026	0.08	0.1	0.01	6.4	<0.1	<0.05	7	<0.5	<0.2
REP 1035456	QC	5	28	1.21	192	0.086	<1	2.36	0.025	0.08	0.1	0.02	6.4	<0.1	<0.05	7	<0.5	<0.2
1198102	Soil	6	70	1.05	249	0.057	<1	3.02	0.008	0.05	0.3	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
REP 1198102	QC	6	72	1.05	244	0.057	<1	2.99	0.009	0.06	0.3	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
1194495	Soil	8	37	0.67	210	0.088	1	2.32	0.017	0.05	0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
REP 1194495	QC	8	38	0.71	210	0.093	1	2.43	0.017	0.06	0.1	0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
1194566	Soil	31	21	0.73	214	0.142	<1	2.31	0.012	0.07	<0.1	0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
REP 1194566	QC	31	20	0.70	207	0.138	<1	2.30	0.010	0.07	<0.1	0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
1194656	Soil	12	23	0.55	190	0.093	<1	1.87	0.008	0.21	0.1	<0.01	2.8	0.2	<0.05	6	<0.5	<0.2
REP 1194656	QC	13	25	0.61	192	0.098	1	2.00	0.008	0.21	0.1	<0.01	2.8	0.2	<0.05	6	<0.5	<0.2
1195513	Soil	9	32	0.45	215	0.050	<1	1.93	0.008	0.04	0.2	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
REP 1195513	QC	9	34	0.47	223	0.054	<1	2.04	0.008	0.04	0.2	0.01	2.4	0.1	<0.05	6	<0.5	<0.2
1197333	Soil	20	29	0.50	196	0.050	<1	1.96	0.009	0.04	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
REP 1197333	QC	20	28	0.50	194	0.046	<1	1.85	0.009	0.04	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	122	0.62	279	0.113	3	0.90	0.084	0.41	3.0	0.20	2.1	5.3	0.15	5	5.8	5.5

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: HEN  
 Report Date: July 19, 2011

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QUALITY CONTROL REPORT

WHI11000308.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS8	Standard	13.6	118.1	124.5	315	1.8	39.7	7.8	605	2.41	25.4	2.6	101.2	6.6	60	2.4	5.2	6.5	43	0.66	0.075
STD DS8	Standard	13.7	109.2	135.5	309	1.7	37.3	7.5	604	2.42	25.5	3.0	116.4	7.2	68	2.3	5.7	7.2	44	0.65	0.073
STD DS8	Standard	14.4	117.1	139.3	330	1.8	40.2	7.9	623	2.49	26.0	3.1	125.0	7.4	72	2.4	5.3	7.2	45	0.69	0.076
STD DS8	Standard	12.7	111.4	131.7	308	1.6	37.1	7.5	581	2.28	25.0	2.9	105.2	6.6	64	2.3	5.4	6.6	42	0.63	0.071
STD DS8	Standard	13.4	115.0	129.3	317	1.7	40.3	7.6	602	2.38	25.2	2.8	116.5	6.9	66	2.0	5.7	6.8	44	0.67	0.073
STD DS8	Standard	13.5	116.4	123.9	313	1.9	39.7	7.7	622	2.48	26.9	2.7	107.5	6.7	66	2.4	5.3	6.5	45	0.71	0.080
STD DS8	Standard	14.1	119.9	132.6	325	1.8	39.9	8.1	652	2.56	28.0	2.8	116.3	7.1	70	2.4	5.6	6.7	46	0.74	0.084
STD DS8	Standard	12.8	108.5	120.4	312	1.7	37.5	7.4	585	2.36	25.5	2.5	113.5	6.1	60	2.1	4.9	6.0	42	0.68	0.073
STD DS8	Standard	13.1	106.0	117.8	308	1.7	36.7	7.2	586	2.36	25.4	2.4	106.4	6.0	60	2.0	5.1	5.8	42	0.65	0.072
STD DS8	Standard	13.7	112.6	110.3	334	1.8	41.9	8.0	638	2.50	25.8	2.4	113.1	5.8	58	2.3	5.2	5.9	44	0.66	0.081
STD DS8	Standard	13.4	115.6	118.5	331	1.8	37.0	7.7	619	2.46	23.9	2.5	119.3	6.2	57	2.2	5.1	6.3	43	0.67	0.082
STD DS8	Standard	15.0	118.4	135.3	353	1.9	42.6	8.2	706	2.77	30.2	2.7	124.6	7.6	75	2.4	5.5	6.5	44	0.79	0.087
STD DS8	Standard	14.2	107.8	131.5	317	1.7	38.0	7.4	622	2.50	22.1	2.7	129.5	7.7	70	2.2	5.0	6.5	33	0.72	0.080
STD DS8	Standard	13.9	110.2	132.9	323	1.7	40.1	7.6	641	2.59	27.5	2.7	130.3	7.5	67	2.2	5.3	6.5	44	0.74	0.083
STD DS8	Standard	13.4	102.8	129.1	304	1.7	37.7	7.4	613	2.44	24.4	2.5	112.7	7.1	63	2.1	4.8	6.1	40	0.69	0.078
STD DS8	Standard	12.5	115.0	127.7	328	1.8	38.2	7.8	612	2.47	27.5	2.5	122.5	6.0	59	2.4	5.6	6.4	41	0.67	0.086
STD DS8	Standard	12.7	113.0	126.0	316	1.8	39.3	7.7	630	2.51	29.0	2.6	109.4	6.2	61	2.7	5.8	6.3	42	0.66	0.088
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: HEN

Report Date: July 19, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11000308.2

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
STD DS8	Standard	14	121	0.60	270	0.114	2	0.88	0.084	0.40	2.9	0.20	2.1	5.3	0.15	5	5.4	5.1
STD DS8	Standard	14	119	0.59	281	0.118	2	0.88	0.089	0.41	3.0	0.20	2.2	5.5	0.15	5	5.8	4.8
STD DS8	Standard	15	124	0.61	291	0.126	3	0.93	0.095	0.43	3.0	0.20	2.5	5.5	0.14	5	6.5	5.1
STD DS8	Standard	13	116	0.57	256	0.113	2	0.86	0.086	0.40	2.7	0.20	2.4	5.1	0.15	4	5.0	5.1
STD DS8	Standard	14	124	0.57	270	0.116	2	0.90	0.085	0.41	2.8	0.20	2.4	5.4	0.17	5	5.4	5.4
STD DS8	Standard	14	123	0.61	289	0.113	3	0.98	0.115	0.45	3.1	0.21	2.7	5.3	0.14	5	6.0	5.0
STD DS8	Standard	16	127	0.65	308	0.127	3	1.01	0.107	0.45	3.0	0.22	2.7	5.5	0.18	5	5.4	5.1
STD DS8	Standard	14	117	0.59	264	0.112	<1	0.85	0.082	0.40	3.0	0.19	2.0	5.3	0.14	5	4.5	5.3
STD DS8	Standard	14	118	0.58	268	0.114	2	0.84	0.079	0.39	3.1	0.19	2.0	5.3	0.15	4	5.7	5.4
STD DS8	Standard	12	124	0.61	274	0.111	2	0.92	0.083	0.41	2.9	0.20	1.9	5.2	0.16	5	5.7	5.4
STD DS8	Standard	12	123	0.62	267	0.113	2	0.91	0.082	0.42	3.1	0.20	1.8	5.4	0.14	5	5.4	5.1
STD DS8	Standard	16	134	0.69	307	0.126	3	1.05	0.107	0.47	3.2	0.21	2.5	5.7	0.20	5	5.9	5.8
STD DS8	Standard	16	120	0.62	288	0.120	2	0.98	0.101	0.41	3.2	0.20	2.4	5.6	0.11	5	4.9	5.6
STD DS8	Standard	16	126	0.64	278	0.121	3	1.00	0.095	0.42	3.2	0.23	2.4	5.8	0.16	5	5.9	5.4
STD DS8	Standard	14	116	0.60	259	0.110	2	0.92	0.090	0.38	3.0	0.20	2.1	5.5	0.14	5	5.9	4.9
STD DS8	Standard	13	114	0.63	271	0.102	2	0.90	0.084	0.42	3.1	0.18	2.0	5.6	0.17	5	5.6	5.3
STD DS8	Standard	13	116	0.62	279	0.108	4	0.88	0.087	0.42	3.1	0.21	2.1	5.5	0.10	5	6.2	5.2
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 20, 2011
Report Date: July 15, 2011
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI11000462.1

CLIENT JOB INFORMATION

Project: HEN
Shipment ID:
P.O. Number
Number of Samples: 98

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include methods like Dry at 60C, SS80, and 1DX2.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: HEN  
 Report Date: July 15, 2011

Page: 2 of 5 Part 1

CERTIFICATE OF ANALYSIS

WHI11000462.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
1193978	Soil		0.1	9.0	2.6	60	<0.1	10.4	11.2	662	2.43	3.1	0.8	<0.5	3.2	51	<0.1	0.2	<0.1	58	0.57	0.094
1193952	Soil		0.8	22.9	7.2	54	<0.1	24.0	9.7	387	2.43	9.0	0.5	3.8	2.9	36	0.1	0.4	0.1	58	0.64	0.051
1196741	Soil		0.9	29.8	7.7	62	0.1	28.3	10.6	472	2.54	10.5	0.5	4.2	2.4	47	0.1	0.6	0.1	56	1.24	0.072
1196748	Soil		1.1	33.8	7.6	51	0.1	26.3	9.2	357	2.32	12.3	0.6	3.1	2.7	72	0.2	0.6	0.1	57	4.89	0.053
1192251	Soil		1.0	36.2	9.8	68	<0.1	26.5	10.8	518	2.83	8.7	1.3	2.1	14.1	29	<0.1	0.4	0.2	48	0.53	0.041
1192261	Soil		0.6	35.2	8.1	67	0.2	28.2	11.0	400	2.63	11.7	0.7	3.5	2.6	69	0.1	0.9	0.1	59	1.56	0.083
1193982	Soil		2.1	31.3	8.5	93	0.5	30.5	7.6	287	2.08	133.4	0.9	16.7	1.9	109	0.9	1.6	<0.1	50	9.83	0.206
1193960	Soil		0.5	24.5	6.8	76	<0.1	19.3	11.0	349	2.73	7.0	0.5	1.1	2.8	41	<0.1	0.5	0.1	64	0.47	0.050
1193980	Soil		2.5	29.1	34.9	42	0.2	20.4	8.1	463	1.94	9.6	0.7	3.7	2.5	115	0.2	0.7	<0.1	45	9.13	0.080
1193953	Soil		0.6	23.2	7.4	52	<0.1	24.5	9.5	338	2.58	9.0	0.6	3.8	3.3	41	<0.1	0.5	0.1	58	0.66	0.051
1196749	Soil		1.0	29.8	21.8	89	0.2	20.6	12.4	584	3.05	7.2	0.8	2.6	12.0	29	0.1	0.5	0.8	59	0.54	0.039
1193954	Soil		0.4	22.9	5.0	46	<0.1	18.2	8.5	418	1.82	11.1	0.6	1.5	2.7	43	<0.1	0.5	<0.1	41	0.39	0.027
1196721	Soil		1.6	40.6	6.3	74	0.2	32.0	8.4	351	1.97	49.5	0.5	8.8	1.8	94	0.6	1.2	0.1	54	6.86	0.148
1193955	Soil		0.4	22.0	4.6	41	<0.1	16.7	8.2	400	1.73	9.2	0.6	3.2	2.7	39	<0.1	0.4	<0.1	40	0.37	0.026
1193956	Soil		0.5	31.7	6.7	66	0.1	23.7	10.2	476	2.16	10.7	0.5	3.5	2.7	68	0.1	0.6	<0.1	48	1.51	0.066
1193962	Soil		0.4	32.5	5.3	71	<0.1	20.6	10.2	457	2.52	6.7	0.4	5.3	2.3	113	0.1	0.4	<0.1	57	2.46	0.065
1196743	Soil		5.2	51.2	9.8	87	0.4	35.5	8.4	322	2.02	112.8	0.8	5.7	2.3	89	0.5	2.0	0.1	55	6.38	0.082
1193981	Soil		10.7	44.5	8.2	42	<0.1	19.9	6.2	373	1.81	4.8	2.0	1.7	1.8	117	0.3	0.4	<0.1	59	13.63	0.047
1193961	Soil		0.2	10.8	6.0	137	<0.1	13.5	8.6	550	2.36	2.9	0.6	1.2	0.8	57	<0.1	0.2	<0.1	44	0.71	0.119
1193979	Soil		0.3	10.8	3.2	40	<0.1	11.1	6.6	308	1.21	4.0	0.4	1.5	3.9	23	<0.1	0.2	<0.1	25	0.36	0.048
1196747	Soil		0.6	42.3	6.8	63	0.1	19.6	11.3	437	3.09	8.7	1.0	4.6	7.9	56	0.2	0.6	0.2	55	2.33	0.075
1196746	Soil		0.5	26.8	7.7	55	<0.1	23.1	9.6	309	2.32	8.4	0.5	4.0	3.4	36	0.2	0.5	0.1	52	0.72	0.061
1196742	Soil		0.3	23.8	3.3	60	<0.1	11.9	9.0	545	2.15	8.8	0.4	2.7	4.2	36	0.1	0.4	<0.1	44	2.22	0.114
1193977	Soil		0.1	16.3	3.2	40	<0.1	16.0	8.4	319	1.51	5.0	0.3	<0.5	3.4	47	<0.1	0.2	<0.1	31	0.45	0.038
1196750	Soil		0.6	36.7	8.1	55	0.1	20.8	8.8	370	2.43	7.0	1.0	13.5	5.1	33	0.1	0.5	0.2	52	0.59	0.066
1193966	Soil		0.2	13.7	5.9	47	<0.1	10.4	7.5	658	1.54	6.7	0.5	2.5	2.6	128	<0.1	0.4	<0.1	25	1.06	0.058
1193958	Soil		0.7	30.1	9.7	69	<0.1	23.6	9.9	312	2.71	8.6	0.5	2.0	3.9	32	<0.1	0.7	0.2	62	0.44	0.051
1193964	Soil		0.3	13.1	4.7	50	<0.1	13.5	7.8	305	1.83	4.8	0.3	<0.5	2.3	35	<0.1	0.2	<0.1	32	0.29	0.044
1193957	Soil		0.2	19.3	4.3	67	<0.1	14.5	8.5	384	1.82	4.5	0.5	2.4	2.6	94	<0.1	0.4	<0.1	37	0.52	0.057
1196745	Soil		0.7	32.5	8.5	61	0.1	28.1	11.0	450	2.41	8.8	0.7	10.8	3.0	43	0.2	0.6	0.1	52	0.90	0.064

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Project: HEN  
 Report Date: July 15, 2011

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CERTIFICATE OF ANALYSIS

WHI11000462.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1193978	Soil	11	28	1.24	71	0.170	1	1.92	0.007	0.67	0.1	<0.01	3.6	0.1	<0.05	7	<0.5	<0.2
1193952	Soil	12	29	0.59	299	0.073	3	1.50	0.023	0.06	0.2	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
1196741	Soil	13	29	0.65	250	0.067	2	1.40	0.025	0.09	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
1196748	Soil	12	30	0.80	242	0.074	1	1.41	0.020	0.09	0.2	0.04	4.0	<0.1	0.06	5	<0.5	<0.2
1192251	Soil	28	74	0.70	169	0.107	<1	1.61	0.010	0.24	0.4	0.03	3.8	0.2	<0.05	6	<0.5	<0.2
1192261	Soil	13	28	0.72	328	0.068	2	1.38	0.029	0.08	0.3	0.05	3.2	<0.1	0.05	4	<0.5	<0.2
1193982	Soil	16	22	0.42	212	0.020	<1	1.01	0.012	0.10	0.3	0.07	3.8	<0.1	0.07	3	0.7	<0.2
1193960	Soil	11	28	0.58	250	0.119	2	2.02	0.018	0.20	<0.1	0.03	3.9	<0.1	0.05	7	<0.5	<0.2
1193980	Soil	10	22	0.90	294	0.068	2	0.97	0.023	0.09	0.2	0.04	2.7	<0.1	0.09	3	<0.5	<0.2
1193953	Soil	13	30	0.55	266	0.074	2	1.45	0.022	0.06	0.2	0.02	3.7	<0.1	0.06	5	<0.5	<0.2
1196749	Soil	49	32	0.96	236	0.088	2	2.05	0.013	0.35	0.2	0.09	4.6	0.2	<0.05	6	<0.5	<0.2
1193954	Soil	10	20	0.65	152	0.070	<1	1.51	0.014	0.06	0.1	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
1196721	Soil	11	26	0.52	376	0.040	2	1.22	0.018	0.11	0.3	0.09	2.9	<0.1	0.11	3	0.9	<0.2
1193955	Soil	9	19	0.62	138	0.075	2	1.37	0.011	0.06	0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1193956	Soil	11	22	0.70	197	0.076	2	1.41	0.023	0.08	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
1193962	Soil	8	22	1.16	258	0.140	<1	1.81	0.023	0.35	0.1	0.03	2.7	0.2	<0.05	6	<0.5	<0.2
1196743	Soil	11	23	0.76	591	0.021	2	1.28	0.016	0.07	0.2	0.13	3.6	<0.1	<0.05	4	1.3	<0.2
1193981	Soil	6	26	1.79	325	0.085	<1	1.41	0.012	0.13	<0.1	0.04	4.5	0.1	<0.05	5	<0.5	<0.2
1193961	Soil	4	15	0.65	150	0.152	<1	1.79	0.011	0.39	<0.1	0.01	1.1	0.2	<0.05	10	<0.5	<0.2
1193979	Soil	9	11	0.56	75	0.067	<1	1.14	0.006	0.23	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1196747	Soil	21	19	0.76	216	0.128	<1	1.29	0.018	0.29	0.3	0.04	3.8	0.2	<0.05	6	<0.5	<0.2
1196746	Soil	12	26	0.55	251	0.073	2	1.29	0.026	0.07	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
1196742	Soil	13	11	0.98	179	0.099	<1	1.12	0.009	0.23	<0.1	0.24	4.1	<0.1	<0.05	4	<0.5	<0.2
1193977	Soil	7	42	0.95	71	0.102	<1	1.62	0.008	0.33	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1196750	Soil	20	24	0.66	225	0.086	2	1.24	0.023	0.11	0.2	0.06	3.3	0.1	<0.05	4	<0.5	<0.2
1193966	Soil	7	12	0.73	103	0.075	<1	2.31	0.008	0.14	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
1193958	Soil	14	32	0.60	329	0.097	<1	1.72	0.019	0.09	0.2	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
1193964	Soil	6	15	0.68	146	0.114	<1	1.46	0.009	0.42	<0.1	<0.01	2.7	0.2	<0.05	4	<0.5	<0.2
1193957	Soil	7	14	0.85	233	0.122	<1	1.72	0.015	0.23	<0.1	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
1196745	Soil	12	27	0.61	294	0.067	<1	1.27	0.025	0.07	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2

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Project: HEN  
 Report Date: July 15, 2011

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CERTIFICATE OF ANALYSIS

WHI11000462.1

Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1193965	Soil	0.4	14.3	6.2	68	<0.1	16.6	9.2	355	2.27	4.9	0.4	<0.5	2.5	100	<0.1	0.3	<0.1	43	0.52	0.080
1193963	Soil	0.1	16.9	2.6	67	<0.1	10.2	10.0	367	1.91	3.1	0.3	<0.5	1.7	51	<0.1	0.1	<0.1	37	0.39	0.058
1196760	Soil	1.0	65.3	6.7	52	0.2	36.5	16.1	319	3.11	10.2	1.0	4.7	3.7	68	<0.1	0.4	0.1	94	3.34	0.048
1197877	Soil	1.2	35.3	31.9	150	0.3	30.5	12.7	833	2.63	15.5	0.4	<0.5	2.7	81	1.5	0.7	0.3	59	1.74	0.126
1197860	Soil	1.3	42.1	18.7	82	0.2	35.4	15.3	512	4.00	26.2	0.8	2.7	4.1	43	0.2	0.9	0.2	107	0.65	0.052
1196762	Soil	0.9	45.6	11.6	49	<0.1	32.9	11.9	313	2.76	11.7	0.5	4.8	3.9	40	0.1	0.6	0.1	71	0.96	0.021
1196763	Soil	2.1	31.8	25.5	87	0.2	42.3	15.1	441	3.62	14.7	0.8	1.2	4.5	35	0.1	0.5	0.2	110	0.46	0.025
1197883	Soil	0.9	28.4	14.4	59	<0.1	24.1	12.4	407	2.86	8.3	0.4	7.3	3.4	43	0.1	0.8	0.2	67	0.56	0.023
1197859	Soil	1.2	15.9	11.1	47	0.1	15.7	11.9	432	3.58	7.9	0.5	<0.5	2.9	49	<0.1	0.6	0.2	71	0.44	0.032
1197866	Soil	1.3	54.6	9.5	62	0.2	29.5	14.2	426	3.58	17.0	0.6	5.4	2.6	88	0.2	0.9	0.1	77	3.89	0.047
1197880	Soil	1.0	34.5	29.3	161	0.1	24.5	14.3	985	3.54	13.2	0.5	1.4	4.0	46	0.7	0.7	0.2	75	0.83	0.041
1197881	Soil	1.0	23.3	30.8	76	0.2	26.2	13.0	891	3.05	12.4	0.6	<0.5	4.2	35	0.2	0.8	0.3	65	0.53	0.032
1197874	Soil	1.5	32.6	12.6	91	0.1	19.3	12.0	903	3.36	47.2	0.4	<0.5	3.1	34	0.2	0.7	0.2	58	0.71	0.031
1197878	Soil	1.0	30.4	28.5	158	0.1	22.4	12.0	1055	3.26	14.1	0.4	<0.5	3.1	39	0.5	0.7	0.3	61	0.78	0.049
1197867	Soil	1.0	28.3	10.7	53	<0.1	34.3	11.3	380	2.88	17.0	0.5	3.9	4.5	30	<0.1	0.7	0.1	72	0.47	0.024
1197879	Soil	1.2	44.7	34.0	283	0.2	18.5	18.1	1215	4.90	33.6	0.5	1.1	3.4	38	0.5	1.3	0.2	93	0.83	0.045
1197865	Soil	1.2	51.8	7.1	63	0.2	21.2	15.8	517	3.89	12.9	0.7	2.4	1.7	138	0.2	1.0	<0.1	74	6.44	0.070
1197869	Soil	1.3	20.8	12.4	69	0.2	22.9	12.3	1022	2.85	10.9	0.3	<0.5	3.7	30	0.2	0.5	0.1	64	0.51	0.029
1197876	Soil	1.9	42.9	68.8	154	0.5	44.1	14.2	780	2.91	25.3	0.7	1.6	2.8	68	0.9	0.6	0.6	101	3.25	0.120
1197871	Soil	1.3	26.0	20.3	71	0.1	24.9	12.4	777	2.83	37.6	0.5	11.4	4.3	46	0.2	0.9	0.2	61	0.68	0.045
1197875	Soil	0.8	27.6	13.2	130	0.1	13.2	13.7	976	4.02	8.5	0.4	1.2	1.5	51	0.5	0.6	0.2	75	0.93	0.086
1197872	Soil	1.6	30.0	18.9	57	<0.1	28.8	12.4	422	3.02	46.5	0.5	2.2	4.4	30	<0.1	1.1	0.2	70	0.39	0.020
1197870	Soil	0.8	52.9	14.4	126	0.1	22.8	13.6	723	4.00	14.5	0.7	2.9	3.9	56	0.1	1.2	0.2	72	0.51	0.033
1197873	Soil	0.8	32.6	12.9	71	0.1	17.1	13.8	667	3.44	21.6	0.4	1.2	2.4	39	0.2	0.8	0.2	72	0.63	0.046
1197864	Soil	1.6	69.6	11.7	59	<0.1	22.8	12.6	574	4.50	14.7	0.9	3.1	4.4	30	0.1	0.8	0.3	52	0.47	0.050
1196761	Soil	0.8	51.2	10.3	47	0.2	29.1	10.4	306	2.12	9.4	0.8	6.5	1.7	138	0.2	0.8	0.2	52	6.47	0.049
1197863	Soil	1.1	19.9	19.2	60	0.2	15.0	12.2	442	3.60	8.6	0.9	1.3	3.4	45	0.1	1.0	0.2	61	0.47	0.045
1197862	Soil	1.6	33.1	28.4	59	0.1	18.4	15.0	847	4.95	57.4	0.5	<0.5	2.9	37	<0.1	0.9	0.3	98	0.62	0.035
1197858	Soil	1.0	32.8	11.5	64	0.1	29.1	13.8	445	3.93	16.7	0.9	3.8	4.1	36	0.1	0.9	0.2	90	0.52	0.032
1197861	Soil	1.7	42.7	7.5	59	<0.1	12.2	21.0	481	7.59	40.2	1.1	1.9	4.6	40	<0.1	0.8	0.2	69	0.55	0.036

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CERTIFICATE OF ANALYSIS

WHI11000462.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
			ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
			1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
1193965	Soil		8	26	0.76	144	0.102	<1	1.86	0.007	0.20	<0.1	<0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
1193963	Soil		5	10	0.99	117	0.166	<1	1.72	0.005	0.65	<0.1	<0.01	1.5	0.2	<0.05	5	<0.5	<0.2
1196760	Soil		15	44	1.17	429	0.134	1	1.77	0.022	0.13	<0.1	0.07	5.7	<0.1	<0.05	6	<0.5	<0.2
1197877	Soil		14	38	0.68	560	0.055	6	1.48	0.017	0.25	0.1	0.02	4.4	<0.1	<0.05	5	0.5	<0.2
1197860	Soil		14	47	1.01	1332	0.094	2	1.95	0.020	0.12	0.1	0.04	6.8	<0.1	<0.05	8	<0.5	<0.2
1196762	Soil		15	33	0.68	284	0.092	<1	1.44	0.020	0.08	0.1	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2
1196763	Soil		15	61	0.89	509	0.111	1	1.99	0.013	0.28	0.1	0.03	7.2	<0.1	<0.05	7	<0.5	0.4
1197883	Soil		12	37	0.70	446	0.072	<1	1.94	0.015	0.09	0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
1197859	Soil		10	27	0.71	1827	0.060	<1	2.10	0.011	0.12	<0.1	0.01	5.4	<0.1	<0.05	7	<0.5	<0.2
1197866	Soil		14	27	1.02	464	0.063	2	1.83	0.019	0.07	0.1	0.06	7.5	<0.1	<0.05	6	<0.5	<0.2
1197880	Soil		16	41	0.75	626	0.065	3	2.13	0.013	0.18	<0.1	<0.01	7.2	<0.1	<0.05	7	<0.5	<0.2
1197881	Soil		15	38	0.67	484	0.076	2	1.74	0.018	0.26	0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
1197874	Soil		15	26	0.49	746	0.023	3	1.92	0.011	0.23	<0.1	0.02	7.8	<0.1	<0.05	6	<0.5	<0.2
1197878	Soil		17	31	0.62	531	0.048	3	1.93	0.014	0.28	0.1	0.02	6.7	<0.1	<0.05	7	<0.5	<0.2
1197867	Soil		16	39	0.56	424	0.077	2	1.49	0.022	0.10	0.2	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
1197879	Soil		28	17	1.23	880	0.006	<1	2.59	0.009	0.12	<0.1	0.06	13.6	<0.1	<0.05	12	<0.5	<0.2
1197865	Soil		9	20	1.16	609	0.047	3	1.86	0.017	0.07	<0.1	0.06	7.7	<0.1	<0.05	7	<0.5	<0.2
1197869	Soil		16	35	0.41	584	0.058	2	1.80	0.012	0.14	0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
1197876	Soil		23	53	1.72	509	0.040	5	1.86	0.012	0.20	<0.1	0.02	5.3	<0.1	<0.05	7	<0.5	<0.2
1197871	Soil		18	37	0.60	566	0.053	2	1.52	0.017	0.18	0.2	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
1197875	Soil		13	18	0.67	674	0.022	4	1.88	0.011	0.25	<0.1	0.02	8.9	<0.1	<0.05	7	<0.5	<0.2
1197872	Soil		16	40	0.58	430	0.052	3	1.62	0.011	0.11	0.2	0.02	5.7	<0.1	<0.05	5	<0.5	<0.2
1197870	Soil		16	33	0.81	506	0.059	2	1.91	0.011	0.09	0.1	0.04	8.3	<0.1	<0.05	7	<0.5	<0.2
1197873	Soil		11	27	0.65	386	0.067	2	1.79	0.012	0.17	0.1	0.02	6.8	<0.1	<0.05	6	<0.5	<0.2
1197864	Soil		19	19	0.78	726	0.029	1	1.90	0.010	0.10	<0.1	0.03	8.7	<0.1	<0.05	6	0.6	<0.2
1196761	Soil		10	24	0.75	541	0.046	3	1.13	0.021	0.06	0.2	0.07	3.1	<0.1	<0.05	3	<0.5	<0.2
1197863	Soil		13	28	0.63	753	0.054	1	1.83	0.010	0.09	0.1	0.02	7.7	<0.1	<0.05	6	0.5	<0.2
1197862	Soil		12	29	0.84	813	0.045	4	2.16	0.014	0.28	0.1	0.02	12.2	<0.1	<0.05	8	0.5	<0.2
1197858	Soil		15	43	0.86	572	0.087	3	1.85	0.013	0.13	0.1	0.03	6.6	<0.1	<0.05	6	<0.5	<0.2
1197861	Soil		21	7	1.63	1953	0.146	2	3.18	0.013	0.72	<0.1	0.06	15.2	0.3	<0.05	11	0.8	<0.2

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Project: HEN  
 Report Date: July 15, 2011

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Method Analyte	1DX15																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1197885	Soil	0.7	18.3	12.6	62	<0.1	18.9	12.0	530	3.02	7.1	0.4	0.9	2.6	40	<0.1	0.8	0.2	69	0.48	0.032
1197857	Soil	0.8	36.0	11.6	57	<0.1	28.6	12.3	355	3.01	19.0	0.6	15.0	4.3	33	0.1	0.9	0.2	65	0.51	0.017
1197884	Soil	0.6	24.1	14.8	66	<0.1	23.3	12.8	669	2.99	7.3	0.4	8.2	3.3	37	0.1	0.6	0.2	62	0.52	0.033
1197882	Soil	0.8	24.8	14.6	67	0.1	21.0	12.0	563	2.96	10.0	0.5	<0.5	2.7	39	0.2	0.8	0.2	62	0.58	0.043
1035321	Soil	1.0	17.6	12.1	56	<0.1	20.0	8.8	440	2.74	9.8	0.4	0.7	3.9	15	0.1	0.6	0.2	66	0.14	0.023
1035306	Soil	1.0	22.7	27.9	84	<0.1	13.0	13.1	549	3.24	6.7	0.7	1.9	6.9	12	0.1	0.4	0.2	64	0.14	0.041
1035309	Soil	1.1	16.1	11.6	47	<0.1	6.1	6.6	665	2.43	3.6	1.8	1.0	15.8	11	<0.1	0.6	0.2	26	0.19	0.046
1035307	Soil	1.2	24.9	10.5	54	<0.1	9.6	7.8	317	2.64	4.1	0.9	<0.5	7.4	36	<0.1	0.3	<0.1	51	0.34	0.036
1035328	Soil	0.7	37.7	9.6	47	<0.1	24.7	10.7	276	2.95	10.1	1.0	4.8	5.5	22	<0.1	0.5	0.2	64	0.20	0.015
1035313	Soil	1.1	27.5	7.7	64	<0.1	17.0	16.7	595	4.17	7.2	0.7	<0.5	4.9	19	<0.1	0.6	0.1	96	0.20	0.028
1035302	Soil	1.2	11.9	10.3	59	<0.1	17.0	11.6	625	2.98	9.9	0.4	0.9	3.4	11	0.1	0.4	0.2	64	0.11	0.032
1035301	Soil	1.0	11.3	9.8	49	<0.1	16.1	7.5	267	2.81	9.0	0.4	1.8	2.9	13	0.1	0.4	0.2	66	0.11	0.041
1035314	Soil	1.0	25.7	9.9	51	0.1	19.2	10.0	289	2.98	7.4	0.4	0.7	3.4	15	<0.1	0.5	0.2	71	0.18	0.021
1035320	Soil	0.8	33.5	7.2	70	<0.1	19.2	17.2	545	3.50	7.5	0.4	0.5	4.9	21	<0.1	0.4	<0.1	76	0.23	0.024
1035323	Soil	0.7	16.6	8.8	67	<0.1	18.8	10.6	721	2.83	9.2	0.7	1.6	8.6	36	0.1	0.5	0.1	60	0.33	0.024
1035322	Soil	1.0	16.5	9.9	54	<0.1	21.0	9.5	348	2.73	9.2	0.5	1.3	4.4	16	<0.1	0.6	0.2	64	0.14	0.020
1035333	Soil	1.0	27.7	11.9	49	<0.1	24.7	12.3	316	2.98	9.6	1.0	1.9	5.7	13	<0.1	0.7	0.2	66	0.12	0.018
1035327	Soil	0.9	22.5	9.2	50	0.1	20.5	10.6	321	2.72	10.0	0.7	2.4	4.0	17	<0.1	0.6	0.2	62	0.17	0.028
1035303	Soil	1.2	19.4	13.0	64	0.1	22.4	10.9	440	3.14	10.3	0.6	1.2	4.8	11	<0.1	0.6	0.2	69	0.10	0.033
1035305	Soil	1.1	24.0	10.7	56	<0.1	18.9	11.7	390	2.82	8.5	1.2	2.2	5.7	22	<0.1	0.5	0.2	61	0.24	0.026
1035304	Soil	1.1	14.9	10.8	60	0.2	15.4	8.8	317	2.76	8.9	0.6	1.7	3.7	16	0.1	0.4	0.2	65	0.16	0.031
1035312	Soil	0.8	19.7	16.0	59	<0.1	19.9	9.2	331	2.99	9.3	0.8	1.2	8.3	14	<0.1	0.7	0.2	64	0.11	0.014
1035308	Soil	0.8	5.6	12.4	51	<0.1	3.3	6.2	300	1.88	1.8	1.0	<0.5	16.9	29	<0.1	0.1	0.2	19	0.39	0.036
1035330	Soil	1.2	20.2	11.0	52	<0.1	25.0	11.2	297	3.32	11.6	0.7	1.5	5.3	14	<0.1	0.7	0.2	72	0.12	0.026
1035310	Soil	1.0	13.2	11.9	42	<0.1	11.9	6.5	295	2.47	5.5	1.2	5.0	9.9	11	<0.1	0.7	0.1	39	0.12	0.013
1035332	Soil	0.8	17.3	10.5	53	<0.1	19.4	10.4	269	2.77	8.8	0.6	3.4	5.8	13	<0.1	0.5	0.2	59	0.12	0.015
1035317	Soil	0.6	13.9	4.0	63	<0.1	14.5	16.9	788	5.25	5.1	0.9	3.0	3.2	20	<0.1	0.3	<0.1	133	0.34	0.059
1035318	Soil	1.0	22.5	10.1	56	0.2	22.9	10.5	306	2.82	8.0	1.0	6.0	5.3	19	<0.1	0.4	0.2	61	0.27	0.031
1035325	Soil	0.9	16.3	8.5	66	<0.1	20.2	10.9	539	3.09	8.9	0.5	3.4	5.3	23	<0.1	0.5	0.3	62	0.27	0.030
1035329	Soil	0.9	15.6	9.7	41	0.2	16.2	8.0	248	2.87	8.3	0.5	2.8	3.9	15	<0.1	0.4	0.2	67	0.16	0.020

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**Project:** HEN  
**Report Date:** July 15, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
1197885	Soil	9	35	0.69	1104	0.042	1	1.91	0.010	0.08	0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
1197857	Soil	17	31	0.61	483	0.073	2	1.32	0.017	0.06	0.2	0.03	4.8	<0.1	<0.05	4	<0.5	<0.2
1197884	Soil	12	36	0.62	493	0.065	2	1.81	0.013	0.13	0.1	0.02	5.9	<0.1	<0.05	6	0.7	<0.2
1197882	Soil	11	39	0.54	638	0.047	2	1.76	0.012	0.13	0.1	0.02	5.6	<0.1	<0.05	6	0.6	<0.2
1035321	Soil	7	35	0.46	236	0.058	1	1.73	0.007	0.05	0.2	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
1035306	Soil	9	24	0.63	127	0.069	1	1.93	0.009	0.13	0.1	0.01	2.2	0.1	<0.05	6	<0.5	<0.2
1035309	Soil	24	8	0.13	138	0.007	1	0.78	0.005	0.11	0.2	0.03	3.5	<0.1	<0.05	2	0.5	<0.2
1035307	Soil	19	18	0.54	154	0.041	1	1.50	0.009	0.04	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
1035328	Soil	25	36	0.59	244	0.063	1	1.89	0.011	0.04	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
1035313	Soil	6	34	1.21	212	0.101	1	2.46	0.008	0.30	0.1	0.01	3.9	0.1	<0.05	7	<0.5	<0.2
1035302	Soil	8	33	0.45	189	0.039	1	1.99	0.008	0.05	0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
1035301	Soil	10	30	0.44	135	0.046	<1	1.61	0.007	0.04	0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
1035314	Soil	8	31	0.65	177	0.060	2	1.87	0.008	0.06	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
1035320	Soil	10	33	1.28	195	0.158	1	2.39	0.009	0.39	0.1	0.01	2.3	0.2	<0.05	6	<0.5	<0.2
1035323	Soil	16	29	0.55	323	0.063	<1	1.99	0.009	0.09	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
1035322	Soil	10	36	0.47	203	0.058	1	1.73	0.008	0.04	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
1035333	Soil	11	42	0.45	233	0.054	<1	2.24	0.009	0.04	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
1035327	Soil	11	34	0.49	234	0.067	1	1.61	0.009	0.06	0.2	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
1035303	Soil	8	42	0.48	184	0.053	<1	2.01	0.007	0.05	0.2	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
1035305	Soil	16	32	0.54	249	0.052	1	1.65	0.012	0.04	0.1	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
1035304	Soil	9	31	0.46	176	0.054	<1	1.74	0.008	0.04	0.2	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
1035312	Soil	10	38	0.44	211	0.051	<1	1.85	0.009	0.05	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
1035308	Soil	14	5	0.32	110	0.003	<1	1.22	0.007	0.07	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
1035330	Soil	10	37	0.43	249	0.051	<1	2.24	0.010	0.03	0.2	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
1035310	Soil	18	18	0.25	135	0.017	1	1.22	0.007	0.05	0.1	0.03	4.9	<0.1	<0.05	3	<0.5	<0.2
1035332	Soil	11	34	0.48	203	0.072	1	2.13	0.011	0.04	0.1	0.03	2.5	0.1	<0.05	6	<0.5	<0.2
1035317	Soil	13	14	1.43	293	0.023	<1	2.36	0.009	0.04	<0.1	0.02	14.5	<0.1	<0.05	12	<0.5	<0.2
1035318	Soil	21	34	0.48	266	0.050	2	2.04	0.012	0.04	0.2	0.03	3.8	0.1	<0.05	6	<0.5	<0.2
1035325	Soil	11	31	0.70	228	0.080	1	2.01	0.007	0.14	0.1	0.03	2.6	0.2	<0.05	6	<0.5	<0.2
1035329	Soil	10	29	0.37	193	0.052	<1	1.88	0.008	0.03	0.2	0.03	2.1	0.1	<0.05	7	0.6	<0.2



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Project: HEN  
 Report Date: July 15, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1035331	Soil	0.6	22.8	9.0	43	<0.1	17.5	9.0	217	2.70	8.6	1.7	9.2	7.9	24	<0.1	0.5	0.2	56	0.27	0.024
1035311	Soil	1.5	16.0	13.3	86	<0.1	7.2	13.5	646	4.68	6.2	2.0	3.1	12.0	12	0.2	1.3	0.2	81	0.13	0.011
1035319	Soil	0.9	10.0	9.6	61	<0.1	40.2	16.5	530	4.29	3.1	0.9	2.9	17.2	11	<0.1	0.2	0.2	73	0.25	0.064
1035326	Soil	0.7	19.5	18.0	87	<0.1	20.0	12.0	653	3.27	9.2	0.5	2.1	5.7	28	<0.1	0.6	0.3	73	0.31	0.028
1035324	Soil	0.5	17.0	7.9	91	<0.1	14.9	14.6	832	3.75	8.8	0.7	4.6	6.7	33	<0.1	0.4	0.2	75	0.35	0.044
1035334	Soil	1.1	22.5	11.1	46	<0.1	22.4	11.1	292	2.86	9.5	1.0	4.5	5.5	14	<0.1	0.6	0.2	62	0.14	0.018
1035315	Soil	0.7	25.5	8.2	47	<0.1	20.9	9.5	301	2.63	8.9	0.8	4.9	4.8	22	<0.1	0.4	0.2	57	0.29	0.040
1035316	Soil	1.6	18.2	9.7	52	0.1	18.4	9.4	240	3.24	11.3	0.4	2.0	2.9	10	<0.1	0.6	0.2	67	0.08	0.028



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1035331	Soil	49	32	0.45	247	0.058	1	1.64	0.012	0.04	0.1	0.06	4.9	<0.1	<0.05	5	<0.5	<0.2
1035311	Soil	22	9	0.17	128	0.007	2	1.06	0.006	0.12	0.1	0.04	10.6	0.1	<0.05	5	0.6	<0.2
1035319	Soil	10	45	1.64	163	0.089	1	2.69	0.005	0.17	<0.1	<0.01	3.5	0.1	<0.05	11	<0.5	<0.2
1035326	Soil	11	30	0.78	223	0.119	1	2.07	0.007	0.13	0.2	0.02	2.4	0.1	<0.05	6	0.5	<0.2
1035324	Soil	11	26	1.05	253	0.165	<1	2.43	0.010	0.48	0.2	<0.01	2.8	0.3	<0.05	7	<0.5	<0.2
1035334	Soil	12	38	0.43	233	0.064	<1	2.24	0.009	0.04	0.1	0.02	3.1	0.1	<0.05	6	<0.5	<0.2
1035315	Soil	15	30	0.49	296	0.063	2	1.74	0.012	0.05	0.1	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
1035316	Soil	8	33	0.43	158	0.058	<1	2.02	0.008	0.05	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2



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Project: HEN  
 Report Date: July 15, 2011

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QUALITY CONTROL REPORT

WHI11000462.1

Method	Analyte	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1192261	Soil	0.6	35.2	8.1	67	0.2	28.2	11.0	400	2.63	11.7	0.7	3.5	2.6	69	0.1	0.9	0.1	59	1.56	0.083
REP 1192261	QC	0.5	33.3	7.9	65	0.1	28.4	10.8	409	2.59	11.4	0.7	3.6	2.6	69	0.1	0.9	0.1	58	1.58	0.088
1197883	Soil	0.9	28.4	14.4	59	<0.1	24.1	12.4	407	2.86	8.3	0.4	7.3	3.4	43	0.1	0.8	0.2	67	0.56	0.023
REP 1197883	QC	0.8	29.1	14.3	59	<0.1	24.2	12.6	409	2.82	8.3	0.4	0.8	3.4	42	<0.1	0.8	0.2	67	0.54	0.024
1197863	Soil	1.1	19.9	19.2	60	0.2	15.0	12.2	442	3.60	8.6	0.9	1.3	3.4	45	0.1	1.0	0.2	61	0.47	0.045
REP 1197863	QC	1.1	19.9	20.3	62	0.2	15.8	13.0	474	3.75	9.5	0.8	2.0	3.5	48	0.2	1.1	0.2	66	0.49	0.046
1035320	Soil	0.8	33.5	7.2	70	<0.1	19.2	17.2	545	3.50	7.5	0.4	0.5	4.9	21	<0.1	0.4	<0.1	76	0.23	0.024
REP 1035320	QC	0.8	33.1	7.0	69	<0.1	19.3	17.4	546	3.56	7.2	0.4	<0.5	4.9	22	<0.1	0.4	<0.1	77	0.24	0.023
1035334	Soil	1.1	22.5	11.1	46	<0.1	22.4	11.1	292	2.86	9.5	1.0	4.5	5.5	14	<0.1	0.6	0.2	62	0.14	0.018
REP 1035334	QC	1.1	24.5	11.4	50	<0.1	22.4	11.1	315	3.04	10.1	1.0	2.6	5.5	14	<0.1	0.6	0.2	66	0.13	0.018
Reference Materials																					
STD DS8	Standard	12.0	119.8	126.9	318	1.8	41.6	7.9	595	2.44	25.8	2.8	108.1	6.6	63	2.2	5.7	6.7	43	0.67	0.078
STD DS8	Standard	12.6	119.4	126.3	318	1.6	40.2	8.1	594	2.45	25.8	2.8	111.8	6.4	62	2.2	5.3	6.9	43	0.64	0.077
STD DS8	Standard	14.1	113.5	129.0	311	1.8	40.7	7.9	609	2.44	25.7	2.7	103.1	6.6	63	2.4	5.0	6.3	44	0.68	0.075
STD DS8	Standard	14.7	117.6	129.1	321	1.8	40.7	7.9	608	2.46	25.6	2.7	133.3	6.8	63	2.5	4.9	6.4	45	0.69	0.076
STD DS8	Standard	13.3	105.7	117.5	316	1.7	37.7	7.7	615	2.45	28.3	2.5	105.8	6.1	62	2.3	5.5	6.3	43	0.68	0.083
STD DS8	Standard	15.0	109.7	127.1	321	1.8	41.2	8.1	657	2.58	28.3	2.7	113.1	6.5	70	2.4	5.7	6.3	44	0.72	0.084
STD DS8	Standard	12.6	118.7	141.3	331	1.7	41.3	7.9	647	2.50	26.3	3.2	115.3	7.3	77	2.4	6.2	7.0	41	0.70	0.078
STD DS8	Standard	14.0	114.4	141.3	332	1.8	40.7	8.0	681	2.68	27.8	2.8	117.0	7.1	80	2.1	6.1	7.0	45	0.73	0.082
STD DS8	Standard	12.6	112.8	125.9	328	1.8	37.8	7.8	646	2.58	25.7	2.9	128.9	7.1	64	2.1	5.5	6.4	42	0.67	0.082
STD DS8	Standard	13.3	112.3	124.0	313	1.8	38.9	7.6	626	2.48	26.6	2.8	122.7	7.3	66	2.2	5.7	6.2	42	0.68	0.080
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001





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Project: HEN  
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QUALITY CONTROL REPORT

WHI11000462.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1192261	Soil	13	28	0.72	328	0.068	2	1.38	0.029	0.08	0.3	0.05	3.2	<0.1	0.05	4	<0.5	<0.2
REP 1192261	QC	13	27	0.71	330	0.068	3	1.38	0.029	0.07	0.2	0.07	3.2	<0.1	<0.05	4	<0.5	<0.2
1197883	Soil	12	37	0.70	446	0.072	<1	1.94	0.015	0.09	0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
REP 1197883	QC	12	37	0.71	438	0.071	<1	1.95	0.015	0.09	0.1	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
1197863	Soil	13	28	0.63	753	0.054	1	1.83	0.010	0.09	0.1	0.02	7.7	<0.1	<0.05	6	0.5	<0.2
REP 1197863	QC	13	31	0.65	756	0.058	1	1.97	0.012	0.10	0.1	0.02	8.0	<0.1	<0.05	7	<0.5	<0.2
1035320	Soil	10	33	1.28	195	0.158	1	2.39	0.009	0.39	0.1	0.01	2.3	0.2	<0.05	6	<0.5	<0.2
REP 1035320	QC	10	33	1.24	195	0.164	1	2.31	0.008	0.39	0.1	<0.01	2.4	0.2	<0.05	6	<0.5	<0.2
1035334	Soil	12	38	0.43	233	0.064	<1	2.24	0.009	0.04	0.1	0.02	3.1	0.1	<0.05	6	<0.5	<0.2
REP 1035334	QC	12	40	0.43	233	0.064	<1	2.29	0.009	0.04	0.1	0.03	3.3	0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	13	120	0.60	259	0.118	2	0.85	0.082	0.41	3.0	0.20	2.1	5.4	0.13	5	5.0	4.7
STD DS8	Standard	12	122	0.60	240	0.112	3	0.84	0.078	0.39	2.7	0.20	2.0	5.3	0.10	5	5.1	4.5
STD DS8	Standard	14	122	0.61	282	0.121	3	0.93	0.099	0.42	2.8	0.20	2.5	5.3	0.13	5	5.3	4.9
STD DS8	Standard	15	122	0.61	276	0.123	3	0.93	0.096	0.43	2.9	0.19	2.2	5.4	0.14	5	5.1	4.7
STD DS8	Standard	14	114	0.60	258	0.110	3	0.90	0.090	0.43	2.9	0.19	2.2	5.0	0.18	5	4.8	4.6
STD DS8	Standard	16	121	0.63	280	0.117	3	0.95	0.101	0.43	3.0	0.20	2.2	5.5	0.20	5	5.2	5.3
STD DS8	Standard	15	120	0.63	313	0.112	2	0.95	0.132	0.53	3.2	0.21	2.7	6.0	0.16	5	5.6	5.4
STD DS8	Standard	15	126	0.64	307	0.117	2	0.97	0.126	0.55	3.3	0.18	2.8	5.8	0.11	5	5.4	5.2
STD DS8	Standard	14	119	0.64	274	0.118	2	0.92	0.088	0.42	3.1	0.21	2.0	5.6	0.15	5	6.0	5.7
STD DS8	Standard	16	117	0.62	281	0.122	3	0.90	0.085	0.42	3.2	0.22	1.9	5.6	0.12	5	5.7	5.1
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

*Appendix V - Rock Assay Certificates*



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Submitted By: Peter Tallman
Receiving Lab: Canada-Whitehorse
Received: June 20, 2011
Report Date: December 13, 2011
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI11000261.3

CLIENT JOB INFORMATION

Project: BRIDGET
Shipment ID:
P.O. Number
Number of Samples: 68

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ethos Capital Corp. Suite 680-789 West Pender St Vancouver BC V6C 1H2 Canada

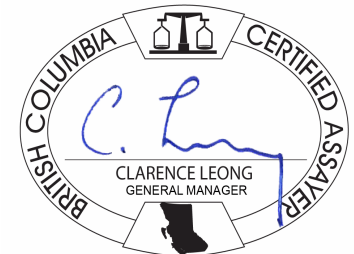
CC: Graeme

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 3B01, 1DX2, and 7KP1.

ADDITIONAL COMMENTS

Version 3; 7KP analysis included



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Method	WGHT	3B	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
1111042	Rock	2.28	<2	<0.1	21.0	4.1	48	<0.1	14.9	13.1	471	2.39	1.8	0.2	<0.5	0.6	28	<0.1	0.3	0.2	77
1111043	Rock	4.02	<2	0.7	1.4	0.5	3	<0.1	0.9	2.1	48	0.36	1.2	<0.1	0.5	<0.1	2	<0.1	<0.1	0.2	3
1111044	Rock	3.01	<2	<0.1	20.0	0.5	23	<0.1	2.5	13.2	578	3.30	1.1	<0.1	<0.5	0.1	25	<0.1	0.2	<0.1	131
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: BRIDGET  
 Report Date: December 13, 2011

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7KP	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	W	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	
MDL	0.01	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
1111042	Rock	1.46	0.076	3	35	0.89	45	0.138	2	1.37	0.193	0.12	<0.1	<0.01	8.0	<0.1	<0.05	4	<0.5	<0.2	N.A.
1111043	Rock	0.02	0.002	<1	2	0.03	5	0.002	<1	0.05	0.003	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2	N.A.
1111044	Rock	1.94	0.149	<1	2	0.90	23	0.155	<1	1.63	0.239	0.14	<0.1	<0.01	9.0	<0.1	<0.05	5	<0.5	<0.2	N.A.
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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CERTIFICATE OF ANALYSIS

WHI11000261.3

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7KP
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	W
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
MDL	0.01	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.







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**Project:** BRIDGET

**Report Date:** December 13, 2011

**Page:** 2 of 2 **Part** 1

# QUALITY CONTROL REPORT

WHI11000261.3

	WGHT	3B	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2
STD W107	Standard																			
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1
STD OXC88 Expected		203																		
STD OXH82 Expected		1278																		
STD W107 Expected																				
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.03	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank																			
Prep Wash																				
G1	Prep Blank	<2	<0.1	2.0	2.9	48	<0.1	4.0	4.6	567	2.01	<0.5	1.5	1.3	4.6	57	<0.1	<0.1	<0.1	37
G1	Prep Blank	<2	0.2	1.5	2.6	47	<0.1	3.8	4.4	561	1.97	<0.5	1.3	0.6	4.4	55	<0.1	<0.1	<0.1	36



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**Project:** BRIDGET  
**Report Date:** December 13, 2011

**Page:** 2 of 2 **Part** 2

QUALITY CONTROL REPORT

WHI11000261.3

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7KP	
		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	W
		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		0.01	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.005	
STD W107	Standard																				0.425
STD DS8 Expected		0.7	0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5	
STD OXC88 Expected																					
STD OXH82 Expected																					
STD W107 Expected																					0.42
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				<0.005
Prep Wash																					
G1	Prep Blank	0.46	0.073	8	7	0.57	227	0.111	<1	1.01	0.103	0.49	<0.1	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2	N.A.
G1	Prep Blank	0.43	0.078	7	7	0.56	220	0.100	1	0.99	0.091	0.46	<0.1	<0.01	1.7	0.3	<0.05	5	<0.5	<0.2	N.A.

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

## *Appendix VI - Geophysics*

**Logistics  
Report**

For the

**High Resolution Helicopter Magnetic and  
Gamma-ray Spectrometric Airborne Geophysical Survey**

Flown over

**Betty/Bridget/Haynes (BBH), Hen, and Wolf Blocks**

From

**Coffee Camp, YT, Canada**

Carried out on behalf of

**ETHOS CAPITAL CORP.**

By

**New-Sense Geophysics Limited**



Toronto, Canada  
October 27<sup>th</sup>, 2011  
(HMR110615-report)

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**AMENDMENT RECORD**

<b>Rev</b>	<b>Date</b>	<b>Description</b>	<b>Report Section</b>	<b>Prepared by</b>

**DOCUMENT RECORD**

<b>Document Identification</b>	HMR110615-report
<b>Document Custodian</b>	Field Operations Manager
<b>Relates To</b>	Final Deliverables
<b>Original Date Issued</b>	October 27 <sup>th</sup> , 2011

## 1. INTRODUCTION

A high sensitivity helicopter magnetic and gamma-ray spectrometric airborne survey was carried out for Ethos Capital Corp. (Client) in the vicinity of Coffee camp (operated by Kaminak Gold Corp.), approximately 100 km south of Dawson City, YT, Canada. The survey was flown over blocks known as Betty/Bridget/Haynes (BBH), Hen, and Wolf.

New-Sense Geophysics (NSG) flew the survey under the terms of an agreement with Client dated June 15<sup>th</sup>, 2011 (see Appendix G), with the subsequent addition of Haynes and two small extension blocks to the BBH block.

The survey was flown between July 8<sup>th</sup> and August 12<sup>th</sup>, 2011. A total of 12,499 line kilometers (BBH: 10,677 km; Hen: 1,261 km; Wolf: 561 km) of field magnetic and radiometric data was flown, collected, processed and plotted.

The geophysical equipment was comprised of 1 high-sensitivity Cesium-3 magnetometer mounted in a fixed stinger assemble, and a 1024-channel spectrometer with four downward looking crystals (total 16 liters), and one upward looking crystal (total 4 liters). Airborne ancillary equipment included; digital recorders, fluxgate magnetometer, radar altimeter, and global positioning system (GPS) receiver. The GPS receiver provided accurate real-time navigation and subsequent flight path recovery. Surface equipment included a magnetic base station with GPS time synchronization, and a PC-based field workstation which was used to check the data quality and completeness on a daily basis.

The technical objective of the survey was to provide high-resolution total field magnetic and radiometric maps suitable for anomaly delineation, detailed structural evaluation, and identification of lithologic trends. Fully corrected magnetic and radiometric maps were prepared by New-Sense Geophysics Limited, in their Toronto office, after the completion of survey activities.

This report describes the acquisition, processing, and presentation of data for the BBH, Hen, and Wolf airborne survey flown over BBH, Hen, and Wolf blocks, Coffee Camp, YT, Canada.

## 2. SURVEY LOCATION

Datum: WGS84

Projection: Universal Transverse Mercator Zone 7N

Local Datum Transform: World

**Table 2.1: BBH Block Coordinates**

<b>UTM Zone 7N</b>	
<b>WGS84_X</b>	<b>WGS84_Y</b>
<b>Outside Block Outline</b>	
604447	6987266
606007	6988264
606273	6988058
606201	6987961
606672	6987356
608849	6987375
609103	6986661
609164	6986643
609273	6986286
612163	6986286
615145	6986310
615320	6985772
617884	6985730
617896	6985137
619445	6985137
619469	6984236
619445	6984048
620781	6984073
620781	6983317
626780	6983347
628165	6983341
630300	6982676
630893	6982355
632151	6981623
633336	6980976
633457	6980734
636009	6979755
637170	6979368
637944	6979882
638053	6979882

638114	6979984
638440	6980238
638482	6980027
639384	6979053
640097	6978231
640514	6977825
640799	6977366
641978	6976114
642794	6975219
645764	6971772
647288	6970078
647276	6968966
647245	6967907
647233	6967829
647276	6967297
649997	6967345
654182	6967284
654025	6967224
654085	6964902
654115	6963837
654091	6962930
654043	6962289
656534	6962277
657816	6962283
657762	6958818
657780	6956804
657774	6955002
657738	6951567
654345	6951688
654254	6951621
654212	6951379
651890	6951349
650971	6951337
650940	6952014
650946	6952184
648884	6952262
647729	6952244
647723	6952976
647548	6953139
645619	6953212
644457	6953242
639541	6953290

639674	6955728
639595	6957723
638730	6957735
638755	6959024
637781	6959011
637775	6960396
635894	6960481
633179	6960421
632247	6960421
632272	6958800
632229	6958183
631377	6958195
631383	6957270
628262	6957300
628232	6957893
628250	6958763
625891	6958842
624567	6958842
624543	6958032
622354	6957977
622360	6960735
620570	6960765
620533	6957965
618344	6958020
614824	6958092
614867	6962132
614728	6962719
616760	6962767
616747	6964164
616741	6966486
616766	6970756
616657	6973901
615611	6973737
614824	6973157
613953	6973126
612859	6973090
611595	6973447
610379	6974148
609986	6974312
609079	6974596
607489	6974862
606122	6975044

605868	6975050
605711	6975521
605197	6976035
605257	6977227
605239	6978219
604943	6978618
604876	6978811
604392	6979241
604253	6979603
604265	6979785
604187	6979779
603969	6980196
603449	6980952
603473	6982518
603999	6982543
603951	6982954
604181	6982930
604169	6983099
604459	6983123
604447	6985844
604459	6987260
<b>Inside Block Outline</b>	
629597	6969520
631808	6970873
636084	6965995
636070	6962832
633135	6962886
633149	6964213
631406	6964213
631380	6965486
630495	6965472
630468	6968193
629584	6968233
629570	6969479

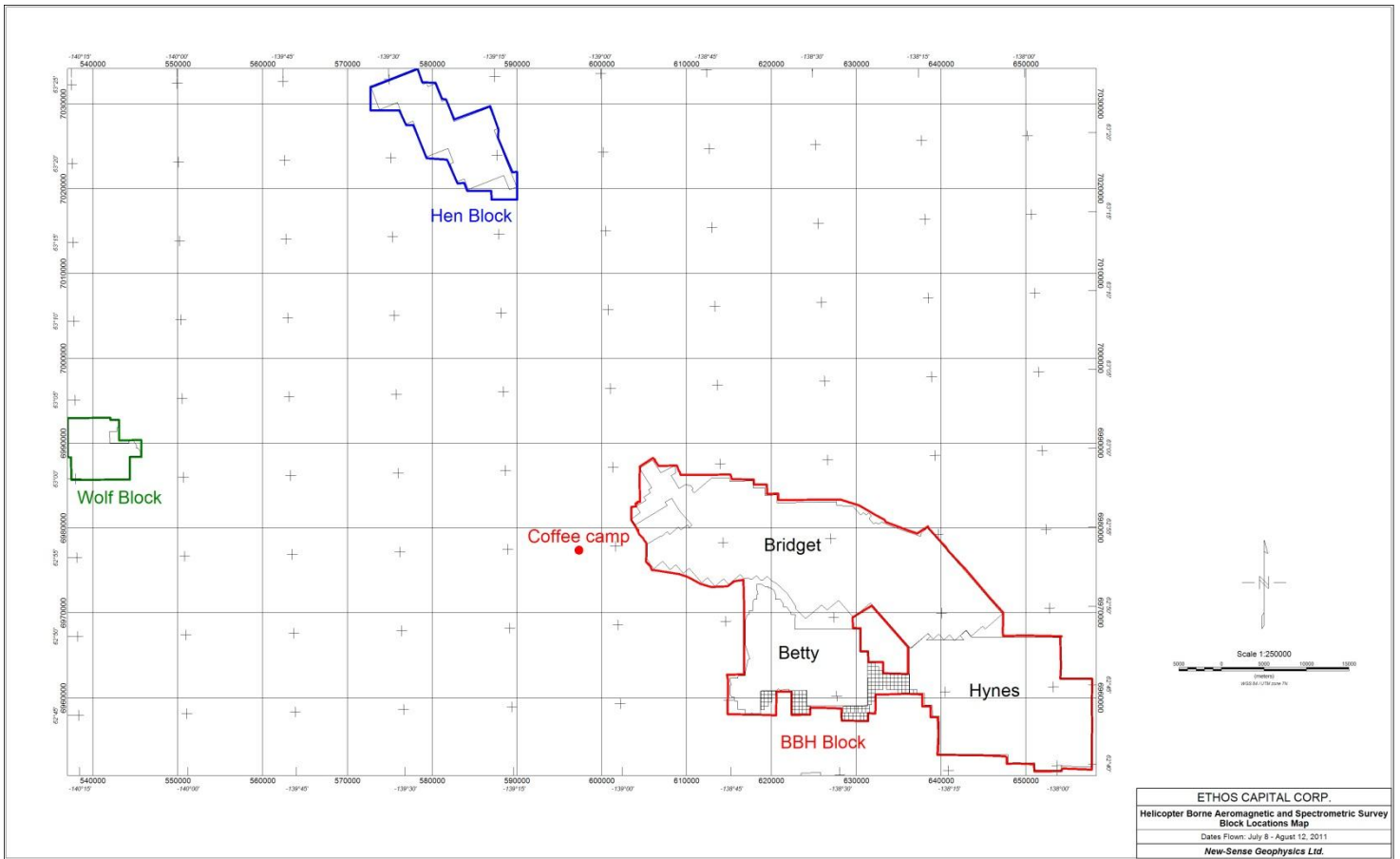
**Table 2.2: Hen Block Coordinates**

UTM Zone 7N	
WGS84_X	WGS84_Y
572737	7031978
578273	7034136
578833	7032537
580372	7032477
581131	7030579
581591	7030559
582590	7028180
586807	7029739
587786	7026981
587746	7026202
587766	7025982
589425	7021945
589985	7021985
590005	7018707
586987	7018727
586947	7019727
584109	7019747
583769	7020666
582970	7020646
581731	7023444
579313	7023584
577754	7027501
576914	7027481
576095	7029240
572697	7029240
572737	7032018



**Table 2.2: Wolf Block Coordinates**

UTM Zone 7N	
WGS84_X	WGS84_Y
537044	6992971
542037	6993034
542049	6992781
543061	6992781
543077	6990330
545685	6990371
545685	6988416
544334	6988402
544362	6985743
537455	6985672
537399	6988331
537033	6988359
537019	6993002



**Figure 2.1** Location map depicting the outlines of flown BBH block (red), Hen block (blue), and Wolf block (green). The coordinate system is WGS84, World, UTM Zone 7N. UTM grid size 10 km.

### **3. PERSONNEL**

#### **3.1 FIELD OPERATIONS**

New-Sense Geophysics Ltd., Geophysicist: Pawel Starmach

Northern Air Support Ltd., Pilot: Jim Stibbart  
Northern Air Support Ltd., Pilot: Mark McGowen

#### **3.2 OFFICE DATA PROCESSING AND OFFSITE QA/QC**

QA/QC (NSG): Andrei Yakovenko

Data Processing and Grids (NSG): Andrei Yakovenko  
Pawel Starmach

Maps (NSG): Andrei Yakovenko

Logistics Report (NSG): Andrei Yakovenko

#### **3.3 PROJECT MANAGEMENT**

New-Sense Geophysics Ltd.: Andrei Yakovenko, Vice President,  
Operations

Ethos Capital Corp. Peter Tallman, Chief Operating Officer

#### 4. SURVEY PARAMETERS

Traverse Line spacing:	100 m
Control Line spacing:	1000 m
Average Terrain clearance:	36 m (BBH); 43 m (Hen); 42 m (Wolf)
Navigation:	GPS
Traverse Line direction:	0 <sup>0</sup> , 180 <sup>0</sup>
Control Line direction:	90 <sup>0</sup> , 270 <sup>0</sup>
Measurement interval:	0.02/0.1 sec for magnetic; 1.0 sec for radiometric; 1.0 sec for GPS
Groundspeed (average):	124 km/hr (BBH); 131 km/hr (Hen); 123 km/hr (Wolf)
Measurement spacing (average):	3.4 m/0.1 sec for magnetic; 34/1.0 sec for radiometric (BBH) 3.6 m/0.1 sec for magnetic; 36/1.0 sec for radiometric (Hen) 3.4 m/0.1 sec for magnetic; 34/1.0 sec for radiometric (Wolf)
Airborne Digital Record:	Line Number Flight Number Radar Altimeter Total Field Magnetics Live Time Thorium counts Potassium counts Uranium counts Upward looking Uranium counts Cosmic counts Down Spectrum Up Spectrum Total Counts Time (System and GPS) Raw Global Positioning System (GPS) data Magnetic compensation parameters (fluxgate mag.)
Base Station Record:	Ambient Total Field Magnetics Raw Global Positioning System (GPS) data Time (System and GPS)

## **5. AIRCRAFT AND EQUIPMENT**

### **5.1 AIRCRAFT**

The aircraft used was a Bell 206 B3 helicopter (C-GMPS) equipped with a Cesium magnetometer mounted in a fixed stinger assembly and RS-500 airborne spectrometer mounted in the storage compartment. The aviation company providing the aircraft service was Northern Air Support based in Kelowna, BC, Canada.

### **5.2 AIRBORNE GEOPHYSICAL SYSTEM**

#### **5.2.1 MAGNETOMETER**

One Scintrex CS-3 optically pumped Cesium split beam sensor was mounted in a fixed stinger assembly. The magnetometer's Larmor frequency output was processed by a KMAG-4 magnetometer counter, which provides a resolution of 0.15 ppm (in a magnetic field of 50,000 nT, resolution equivalent to 0.0075 nT). The raw magnetic data was recorded at 50 Hz, anti-aliased with 51 point COSINE filter and resampled at 10 Hz .

#### **5.2.2 MAGNETIC COMPENSATION**

The proximity of the aircraft to the magnetic sensor creates a measurable anomalous response as a result of the aircraft's movement. The orientation of the aircraft with respect to the sensor and the motion of the aircraft through the earth's magnetic field are contributing factors to the strength of this response. A special calibration flight, Figure of Merit (i.e., FOM), was flown to record the information necessary to compensate for these effects.

The FOM maneuvers consist of a series of calibration lines flown at high altitude to gain information in each of the required line directions. During this procedure, pitch, roll and yaw maneuvers are performed on the aircraft (typical angle ranges are 10° pitch, 10° roll, and 10° yaw). Each variation is conducted three times in succession (first pitch, then roll, then yaw), providing a complete picture of the aircraft's effects at designated headings in all orientations.

A three-axis Bartington fluxgate magnetometer (recorded at 50 Hz) was used to measure the orientation and rates of change of the magnetic field of the aircraft, away from localized terrestrial magnetic anomalies. The QC Tools digital compensation algorithm was then applied to generate a correction factor to compensate for permanent, induced, and eddy current magnetic responses generated by the aircraft's movements.

### **5.2.3 GPS NAVIGATION**

A U-BLOX RCB-LJ sixteen channel GPS receiver, which is an integral component of the iNAV V3 computer system, was used to run the flight control system and provide precise positioning of the aircraft.

### **5.2.4 ALTIMETER**

A TRA 3500 radar altimeter was mounted inside the stinger. This instrument operates with a linear performance over the range of 0 to 2,500 feet and records the terrain clearance of the sensors. The raw radar altimeter data was recorded at 50 Hz, anti-aliased with a 21 point COSINE filter and re-sampled at 10 Hz.

### **5.2.5 GEOPHYSICAL FLIGHT CONTROL SYSTEM**

New-Sense's iNAV V3 geophysical flight control system monitored and recorded magnetometer, spectrometer, altimeter, and GPS equipment performance. Input from the various sensors was monitored every 0.005 seconds for the precise coordination of geophysical and positional measurements. The input was recorded fifty times per second (one time per second in the case of GPS and radiometric data).

GPS positional coordinates and terrain clearance were presented to the pilot by means of a panel mounted indicator display. The magnetometer response, forth difference, altimeter profile and profiles of the radiometric windows were also available on the touch screen display, for real-time monitoring of equipment performance.

### **5.2.6 SPECTROMETER**

The RS-500 Airborne Spectrometer with RSX-5 detector pack, manufactured by Radiation Solutions Inc. (RSI), was used for the survey. The RS-500 spectrometer has a multi-peak gain stabilization algorithm and is capable of recording 1024 channels with accuracy of 0.1 to 10 counts/second.

The RS-500 is connected to a crystal pack comprising four downward looking crystals (16 liters total) and one upward looking crystal (4 liters total). The downward crystals record the radiometric spectrum from 410 KeV to 2810 KeV over 1024 discrete energy windows, as well as from a cosmic ray channel that detects photons with energy levels above 3.0 MeV. From these 1024 channels, the standard Total Count, Potassium, Uranium and Thorium channels are extracted. The upward crystal is used to measure and correct for atmospheric Radon interference. The shock-protected Sodium Iodide (Thallium) crystal package is unheated and automatically stabilizes with respect to the multiple peaks. The RS-500 provides raw data that has been automatically corrected for gain, base level, ADC offset, and dead time.

### **5.2.7 IDAS DIGITAL RECORDING**

The output of the CS-3 magnetometer, fluxgate magnetometer, altimeter, temperature, pressure, GPS coordinates, and time (system and GPS), were recorded digitally on a Compact Flash drive at a sample rate of fifty times per second (one time per second for GPS) by the iNAV V3 system.

### **5.2.8 PRESSURE AND TEMPERATURE**

A Honeywell Precision Pressure Transducer, model PPT0020AWN2VA-A, was used to record the ambient pressure and temperature during the survey. The device was mounted within the helicopter stinger. The pressure and temperature output units were mbar and degrees Celsius respectively.

### **5.2.9 SPECTROMETER DIGITAL RECORDING**

The output of the RS-500 spectrometer, GPS coordinates, and time (UTC), were recorded digitally on an internal RS-500 flash drive at a sample rate of 1 Hz. After each flight the data were copied and synchronized using UTC clock with the iDAS digital records.

## **5.3 GROUND MONITORING SYSTEM**

### **5.3.1 BASE STATION MAGNETOMETER**

A Scintrex CS-3 optically pumped cesium split beam sensor was used at the base of operations within the airport boundaries, in an area of low magnetic gradient and low/free from cultural electric & magnetic noise sources. The sensitivity and absolute accuracy of the ground magnetometer is +/- 0.01 nT. Data was recorded continuously at least every one second throughout all survey operations in digital form on a TC-10 data acquisition system. Both the ground and airborne magnetic readings were synchronized based on the GPS clock.

### **5.3.2 RECORDING**

The output of the magnetic and GPS monitors was recorded digitally on a dedicated TC-10 computer. A visual record of the last three hours was graphically maintained on the computer screen to provide an up to date appraisal of magnetic activity. At the conclusion of each production flight raw GPS and magnetic data were transferred to the main field compilation computer.

#### **5.4 FIELD COMPILATION SYSTEM**

A field laptop computer was used for field data processing and presentation. The raw data was imported to Geosoft Oasis montaj for QA/QC and processing purposes. After the data was checked for quality control, the database with uncompensated magnetic readings was exported to QC Tools software package for magnetic compensation and base station data merging purposes. The compensated database was then imported back to Oasis for the subsequent and final processing.



## 6. PRE-SURVEY SPECTROMETER CALIBRATIONS

Pre-survey calibrations, and testing of the RS-500 (SN 5516) airborne gamma-ray spectrometry system were carried out on June 24th and 25th, 2011 in the vicinity of the survey area. For these calibrations and tests, the survey aircraft (registration C-GMPS) was mobilized in survey configuration. The installed equipment and configurations were selected to conform to the contracts technical specifications.

Calibration of the spectrometer system is a vital process to airborne gamma-ray spectrometry. The calibration of the spectrometer system involved three tests:

- **Calibration Pad** measurements, which are used to determine the “spectral overlap” (Compton scattering) coefficients. The calibration test was performed within a 12 month period before the survey by the manufacturer (Radiation Solutions Inc.), at its headquarters location in Mississauga, Ontario.
- **Cosmic Flight Test**, which is used to determine cosmic coefficients and aircraft background noise, was conducted on June 24<sup>th</sup>, 2011.
- **Height Attenuation Test**, which determined the altitude attenuation coefficients, was conducted on June 25<sup>th</sup>, 2011.

### 6.1 ENERGY WINDOWS

The airborne radiometric technique requires measurement of count rates for specific energy regions or windows in the natural gamma-ray spectrum. The standard energy regions (in accordance with the International Atomic Energy Agency (IAEA) 323), and their corresponding channel limits are:

**Table 6.1 Downward spectrometer energy windows**

Designation	Energy Limit (keV)		Channel Limit (inclusive)	
	Lower	Upper	Unit Values	
			Lower	Upper
Total Count (TC)	410	2810	137	937
K	1370	1570	457	523
U	1660	1860	553	620
Th	2410	2810	803	937
U (upward)	1660	1860	553	620
Cosmic	3200	infinity		

## 6.2 CALIBRATION PAD TEST

The Compton stripping coefficients as provided by RSI are listed below:

**Table 6.2 Compton stripping coefficients**

Stripping Ratios	Spectrometer (SN 5516)	“normal” values
Th into U ( $\alpha = a_{23}/a_{33}$ )	0.271	0.250
Th into K ( $\beta = a_{13}/a_{33}$ )	0.399	0.400
U into K ( $\gamma = a_{12}/a_{22}$ )	0.752	0.810
U into Th ( $a = a_{32}/a_{22}$ )	0.046	0.060
K into Th ( $b = a_{31}/a_{11}$ )	0	0
K into U ( $g = a_{21}/a_{11}$ )	0	0.003

## 6.3 COSMIC FLIGHT TEST

In each of the spectral windows, the radiation increases exponentially with height due to radiation of cosmic origin. As well, the aircraft itself contributes a constant background to the count rate. By completing a series of flights within the same region, over a range of altitudes, these background contributions can be determined.

### 6.3.1 SETUP AND MEASUREMENT PROCEDURE

1. A resolution check was completed at the aircraft base prior to the cosmic test to insure the sensitivity and accuracy of the spectrometer.
2. Once the aircraft reached the desired altitude (first at ~9,300 feet), survey data were recorded for approximately ten minutes.
3. Step 2 was then repeated at the following remaining altitudes: 10,400, 11,500 and 12,400 feet above sea level (see table 6.3).

**Table 6.3 Cosmic Test data**

Altitude (ft)	Cosmic Test Flight Data (average counts)					
	Cosmic	UU	K	U	Th	TC
12434	346	5	31	21	23	450
11472	300	5	28	18	20	405
10419	255	4	26	16	16	357
9383	218	4	23	14	14	311

### 6.3.2 RESULTS FROM COSMIC FLIGHT TEST

At each altitude, the raw data for the five windows of interest (Th, K, U, TC, and U upward) were evaluated for quality. The mean values were then extracted and plotted against the cosmic background window (see Appendix A). The result is a linear trend, where the slope and intercept represent the cosmic stripping ratio and the aircraft background respectively. The results from the graphs are summarized below.

**Table 6.4 Cosmic and aircraft background coefficients**

Cosmic Flight Test Result		
Element	Cosmic	Aircraft Background
K	0.0604	10.108
U	0.0537	2.231
Th	0.0724	0
TC	1.0812	78.286
UU	0.0094	1.8768

## 6.4 ALTITUDE ATTENUATION TEST

The height attenuation of the spectrometer systems was calculated by flying a series of passes across a line over flat ground with uniform radioelement ground concentration. The test range was flown by acquiring data on a series of seven passes over a set path, at the following altitudes: 50, 100, 150, 200, 300, 500, 700, and 1000 feet above ground.

### 6.4.1 RESULTS FROM ALTITUDE ATTENUATION TEST

The airborne data from the altitude attenuation test was checked for quality, edited and divided into lines, where each line represents a pass. The radiometric windows were then corrected for background (aircraft and cosmic) and stripped of Compton contributions. After averaging the data for each line, the four windows of interest (K, U, Th, and Total Count) were plotted against the altimeter in order to obtain the height attenuation. The results were obtained using an exponential regression, where the slope represents the attenuation coefficient and the 'y' intercept represents the counts at 0 feet (see Table 6.5 and Appendix A).

**Table 6.5 Height Attenuation coefficients**

<b>Element</b>	<b>Altitude attenuation coefficients</b>
K	-0.014
U	-0.007
Th	-0.009
TC	-0.009

## **6.5 RADON HOVER TEST**

On all survey flights, at least one radon normalization test was flown before or after data collection.

The test consisted of the helicopter hovering over a designated test area at nominal survey altitude (UTM WGS84\_X: 597080; WGS84\_Y: 6977260, Zone 7N) once daily (on production days only). The tests consisted of the pilot being guided using the iDAS navigation system, at fixed speed, and for approximately 5 min to allow for adequate statistics to be collected.

The determination of calibration constants that enable the stripping of the effects of atmospheric radon from the downward-looking detectors through the use of an upward looking detector is divided into two parts:

- 1) Determining the relationship between the upward and downward looking detector count rates for radiation due to atmospheric radon.

The procedures describing how to determine these calibration factors are documented in IAEA Report #323 on airborne gamma-ray surveying.

The hover tests or test lines normally require many over-water measurements where there are little to no contributions from the ground. Where this is not possible, it is standard procedure to establish a test line/spot over ground where a series of repeat measurements are acquired.

Two test areas were established over a flat ground near the base of operations. Each day when flying took place, the aircraft hovered over the test area for ~5 min. The test results were used to estimate the relationships between the background and cosmic corrected counts in the downward uranium window and in the other four windows (i.e., potassium, thorium, total count and upward uranium) due to atmospheric radon. The following relationship coefficients were calculated and used.

Note: Only the “a” constants were used in the final processing. The “b” constants are normally near zero for over-water calibrations.

**Table 6.6 Calibrations Factors**

$a_{uu}$	0.25	Upward Uranium vs down Uranium slope
$a_k$	1.13	Potassium vs down Uranium slope
$a_T$	0.1	Thorium vs down Uranium slope
$a_i$	15.66	Total Count vs down Uranium slope
$b_{uu}$	-3.9	Upward Uranium background
$b_k$	77.86	Potassium background
$b_T$	20.55	Thorium background
$b_i$	558.32	Total Count background

2) Determining the relationship between the upward and downward looking detector count rates for radiation originating from the ground using complete survey dataset.

The component of the upward detector count rate originating from the ground depends on the concentration of uranium and thorium in the ground, as are the components of the uranium and thorium down window count rates that originate from the ground (see IAEA Report #323). Consequently the upward detector ground component is related to the downward detector ground components by linear equation:

$$u_g = a_1 \times U_g + a_2 \times T_g$$

**Where:**

- $u_g$ ,  $U_g$  and  $T_g$  are contributions in the windows that originate from the ground.
- $a_1$  and  $a_2$  are empirically determined calibration factors

The procedure, as per IAEA Report # 323, in determining, the  $a_1$  and  $a_2$  factors were applied to each survey block's dataset separately with the following results:

**Table 6.7 BBH block  $a_1$  and  $a_2$  factors**

$a_1$ :	0.047
$a_2$ :	0.036

**Table 6.8 Hen block  $a_1$  and  $a_2$  factors**

$a_1$ :	0.032
$a_2$ :	0.035

**Table 6.9 Wolf block  $a_1$  and  $a_2$  factors**

$a_1$ :	0.045
$a_2$ :	0.040

## 6.6 RADIOELEMENT GROUND CONCENTRATIONS AND SYSTEM SENSITIVITIES

The radiometric ground concentrations were measured using a calibrated portable spectrometer (RSI-125) during the same time as the airborne altitude attenuation flights took place (i.e., June 25<sup>th</sup>, 2011). The sensor was positioned one meter above the soil and away from the operators' body in the vicinity of altitude attenuation test strip. Fourteen 300-second measurements were taken over the length of the calibration range.



The resulting mean radiometric equivalent ground concentrations for the calibration range on were as follows:

**Table 6.10 Ground concentrations**

<b>Radio Element</b>	<b>Ground Concentration</b>	
Potassium	0.9	%
Equivalent Uranium	1.86	<i>ppm</i>
Equivalent Thorium	5.28	<i>ppm</i>
Total	35.98	<i>nGy/h</i>

Using these ground concentrations and the altitude attenuation calibration flight data, the System Sensitivities were obtained:

$$S = N/C$$

**Where:**

- *S* is the sensitivity for each window
- *N* is the striped count rate in the window at the survey altitude (i.e, 30m)
- *C* is the respective ground radioelement concentration.

With the following results:

**Table 6.11 Sensitivities @ 30m from**

	<b>Sensitivities @ 30m</b>
<b>K</b>	89.34 <i>cps / (%)</i>
<b>U</b>	6.43 <i>cps / (ppm)</i>
<b>Th</b>	3.98 <i>cps / (ppm)</i>
<b>TC</b>	22.78 <i>cps / (nGy/h)</i>

Note: Determining of radioelement ground concentrations and system sensitivities were not part of the signed agreement. Such data are made available to the client as a courtesy.

## **7. OPERATIONS AND PROCEDURES**

### **7.1 FLIGHT PLANNING AND FLIGHT PATH**

The block outline coordinates (section 2.0) were used to generate pre-calculated navigation files. The navigation files were used to plan flights at the designated traverse line spacing of 100 meters and control lines of 1000.

Preliminary flight path maps and magnetic maps were plotted and updated, to monitor coverage of the survey area.

### **7.2 BASE STATION**

The magnetic base station was established in magnetically quiet area at the camp site at latitude: -62.912537; and longitude: -139.088559.

The base station readings were monitored to ensure that the diurnal variation were within the peak-to-peak envelope of 20 nT from a long chord distance equivalent to a period of two minutes.

### **7.3 AIRBORNE MAGNETOMETERS**

The FOM tests of the performance of the CS-3 and fluxgate magnetometers were performed on July 8<sup>th</sup>, and July 22<sup>nd</sup>, 2011 in order to monitor the ability of the system to remove the effects of aircraft motion on the magnetic measurement.

The FOM maneuvers consisted of a series of calibration lines flown at high altitude (10,000+ ft above sea level) to gain information in each of the required line directions. During this procedure, pitch, roll, and yaw maneuvers were performed on the aircraft.

The following ranges were used:

Pitch: 10-15°

Roll: 10-15°

Yaw: 10-15°

The total FOM noise was 0.7 nT with an envelope of 0.08nT (July 8<sup>th</sup> test); and 0.97 nT with an envelope of 0.11 nT (July 22<sup>nd</sup> test) (Appendix B).

### **7.4 THORIUM RESOLUTION TESTS**

In order to monitor the resolution of the crystal pack, a twice-daily a resolution test of the spectrometer was performed in RadAssist (RSX-5 spectrometer interface program) using ~2000 thorium background counts per crystal.



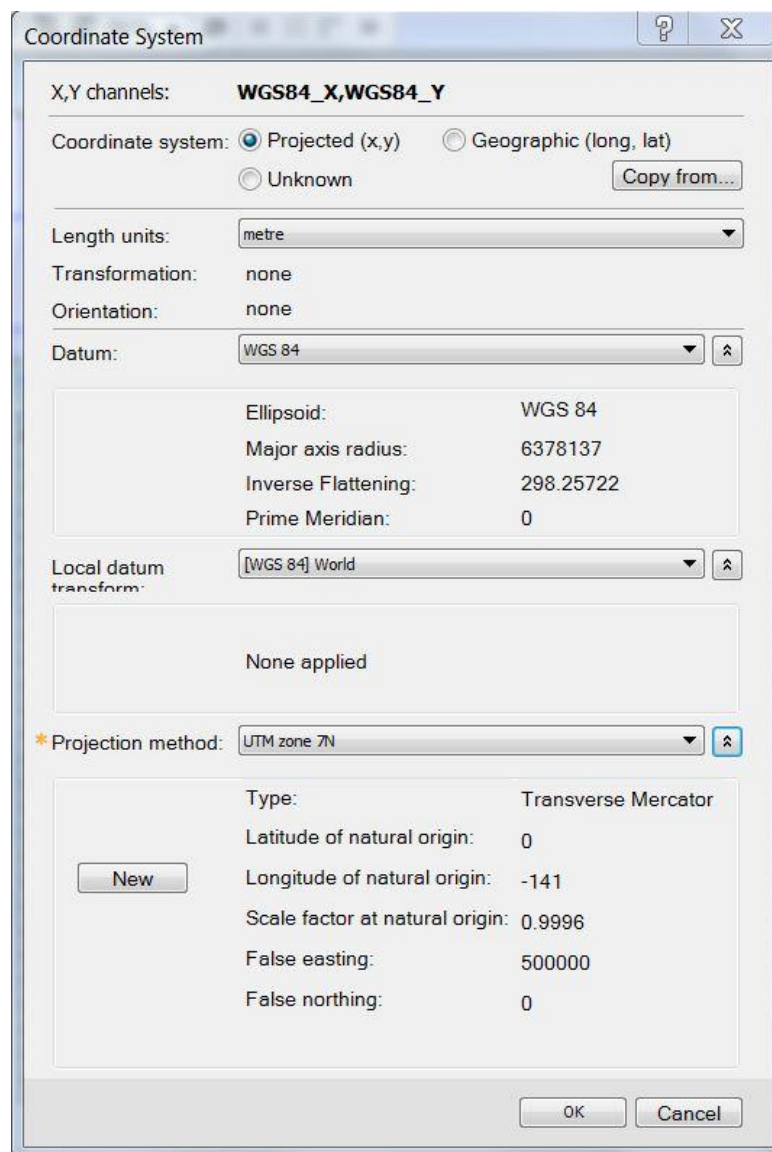
The results from the resolution tests were always found to be within the contract specifications (see Appendix D for the daily test results).

## 7.5 DATA COMPILATION

Data recorded by the airborne and base station systems was transferred to the field compilation system. As each flight was completed, the following compilation operations were carried out:

### 7.5.1 FLIGHT PATH CORRECTIONS

The navigational correction process yields a flight path expressed in WGS84, World and transformed to correspond to WGS84, World, UTM Zone 7N.



All 1.0 Hz GPS records were linearly interpolated and resampled at 10 Hz (0.1 sec) intervals.

## **7.5.2 MAGNETIC CORRECTIONS**

### **7.5.2.1 FILTERING AND COMPENSATION**

The raw 50Hz magnetic data were filtered, along with the fluxgate magnetometer data, with a 51 cosine anti-aliasing algorithm and re-sampled at 10 Hz.

The filtered and re-sampled data were stored in the MAG\_FILT channel.

Then the MAG\_FILT data were compensated for permanent, induced, and eddy current magnetic noise generated by the aircraft using data from the fluxgate magnetometer error (see Appendix B).

The compensated magnetic data were then stored in the MAG\_COMP channel.

### **7.5.2.2 DIURNAL CORRECTIONS**

The compensated magnetic data were adjusted to account for diurnal variations. When the magnetic variations recorded at the base station recognized to be caused by man-made sources, (such as equipment, vehicles passing by the sensor), they were removed and gaps interpolated.

The diurnal data were recorded at 1Hz and filtered with a 31-point low pass filter. The filtered data were then subtracted directly from the aeromagnetic measurements to provide a first order diurnal correction.

After base station removal, the total magnetic field values become very small. To bring the total magnetic measurements back to ‘normal’ values, project averages (i.e., BBH: 57,197.57 nT; Hen: 57,186.76 nT; Wolf: 57,202.48 nT) from the base station readings were added back to the magnetic data.

The resulting base station corrected data were stored in the MAG\_DIURNAL\_CORR channel.

### **7.5.2.3 HEADING CORRECTIONS**

Optically pumped magnetic sensors have an inherent heading error, typically 1 to 2 nT peak-to-peak, as the sensor is rotated through 360 degrees. On flight line directions of the opposite heading, the affect is reasonably predictable.

Results from the previously flown (June 23<sup>rd</sup>, 2011 in 45<sup>0</sup>, 135<sup>0</sup>, 225<sup>0</sup>, and 315<sup>0</sup> directions for Kaminak Gold Corp.) heading test flight were used to estimate the heading errors for 0<sup>0</sup>, 90<sup>0</sup>, 180<sup>0</sup>, and 270<sup>0</sup> directions by interpolation.

The following heading corrections were applied to the data set:

```
/ Geosoft Heading Correction Table
/= Direction:real:i
/= Correction:real
/   Direction  Correction
   0   -1.03
   90   0.43
  180   1.03
  270  -0.43
  360  -1.03
```

The heading corrected magnetic data were stored in MAG\_HEADING\_CORR channel.

#### **7.5.2.4 LAG CORRECTIONS**

There are two potential types of Lag offsets when collecting airborne data: time lag and distance lag.

NSG insures that there is no time lag in the data acquisition system by recording unique markers every 1-second based on the GPS time stamp (associated with the EXACT change in GPS positioning). This information is used to realign (if necessary) the individual data records.

The distance lag is determined by dividing the distance from the GPS antenna to the sensor head by the averaged sample rate distance.

$$5.2 / 3.44 \text{ m} = 1.51 \text{ records}$$

$$5.2 / 3.6 \text{ m} = 1.44 \text{ records}$$

$$5.2 / 3.4 \text{ m} = 1.53 \text{ records}$$

A lag corrections of -2 records (BBH and Wolf) and -1 record (Hen) were applied to the MAG\_HEDAING\_CORR channel and stored in the MAG\_LAG\_CORR channel.

#### **7.5.2.5 IGRF CORRECTIONS**

The total field strength of the International Geomagnetic Reference Field (IGRF, 2010 model) was calculated for every data point, based on the spot values of Latitude, Longitude and altitude. This IGRF was removed from the measured survey data on a point-by-point basis from the lag corrected channel.

After IGRF correction the total magnetic field values become negative. To bring the total magnetic measurements back to ‘normal’ values an average (i.e., BBH: 57,298.31 nT; Hen: 57,324.55 nT; Wolf: 57,182.47 nT) of IGRF values based on the whole project were added back to the magnetic data.

The IGRF corrections were applied to the MAG\_LAG\_CORR channel and stored in the MAG\_IGRF\_CORR channel.

### 7.5.2.6 LEVELING CORRECTIONS

After the data were corrected for IGRF, a survey traverse/control line intercepts array/matrix (i.e., Simple Leveling) was created for determining differences in magnetic field at the intersection points. The somewhat rugged terrain of the survey blocks, resulted in some line-to-line difference in altitude, and relatively strong magnetic anomalies made magnetic signal at some Traverse/Control line intersection points quite different. As a result, some of those intersection points needed to be manually adjusted in order to reduce line-to-line magnetic differences.

The resulting simple leveled magnetic data were stored in MAG\_SMPL\_LVL channel.

Further it was decided to apply microlevelling techniques to the conventionally leveled magnetic data (see Appendix F for full description of the procedure).

The following key parameters were used:

**Table 7.2 Magnetic data microlevelling parameters**

<b>Block Name</b>	<b>Line Spacing (m)</b>	<b>Line Direction (deg.)</b>	<b>Grid Cell Size (m)</b>	<b>Decorrugation Cutoff (m)</b>	<b>Amplitude Limit (nT)</b>	<b>Amplitude Limit Mode</b>	<b>Naudy Filter Limit</b>
BBH BK	100	0	20	400	20	clip	250
Hen BK	100	0	20	400	17.4	clip	500
Wolf BK	100	0	20	400	33.9	clip	200

The resulting microleveled magnetic data were stored in the TMI\_FINAL channel.

In addition, the BBH block was fully decorrugated (i.e., microleveled without constraints on Amplitude Limit and Naudy Filter) and stored in TMI\_decor channel. Such data is to be treated with caution, as pure decorrugation procedure tends to remove significant amount of geological signal along with the line-to-line linear noise offsets.

### 7.5.3 VERTICAL DERIVATIVE

A 1-st Order Vertical Derivative (VDV) dataset was calculated using 2D FFT2 algorithm based on the final TMI grids and sampled back to the database.

The VDV data were stored in the VDV channel.

### 7.5.4 GRIDDING

The final TMI and VDV grids were produced from the TMI\_FINAL and VDV channels respectively.

The data were gridded using a bi-directional line gridding method with a grid cell size of 20 meters, Akima interpolation method for across and down line spline and trend angles perpendicular to those of traverse line directions.

### 7.5.5 RADIOMETRIC DATA CORRECTIONS

#### 7.5.5.1 LIVE TIME CORRECTIONS

The spectrometer uses the notion of “live time” to express the relative period of time the instrument was able to register new pulses per sample interval.

The live time correction is applied to the total count, potassium, uranium, thorium and upward uranium channels.

The formula used to apply the correction is as follows:

$$C_{LT} = C_{raw} \times \left( \frac{1000}{LT} \right)$$

**Where:**

- $C_{LT}$  is the live time corrected channel
- $C_{raw}$  is the raw channel
- $LT$  is the Live Time channel

#### 7.5.5.2 PRE-FILTERING

The cosmic channel data were processed with a 15-point low pass filter to remove spikes.

When Radon corrections were applied, live time, background, and cosmic corrected uranium, thorium, and upward uranium were pre-filtered with 3, 3 and 21 (BBH, Wolf) and 3, 3, 5 (Hen) point low pass filters respectively.

The radar altimeter channel while recorded at 50Hz was filtered with 21-point COSINE filter and then sampled to 1Hz.

### 7.5.5.3 AIRCRAFT AND COSMIC BACKGROUND

Aircraft background and cosmic stripping corrections (see section 6.3.2) were applied to the live corrected total count, potassium, uranium, thorium and upward uranium channels using the following formula:

$$C_{ac} = C_{LT} - (ac + bc \times cof)$$

**Where:**

- $C_{ac}$  is the background and cosmic corrected channel
- $C_{LT}$  is the live time corrected channel
- $ac$  is the aircraft background for this channel
- $bc$  is the cosmic stripping coefficient for this channel
- $cof$  is the filtered cosmic channel

### 7.5.5.4 RADON CORRECTION

Once the survey was completed, the relationships between the counts in the downward uranium window and in the other four windows (i.e., upward uranium, thorium, potassium and total count) due to atmospheric radon were determined using linear regression for the test site (see section 6.5 for the resulting values).

The equations solved for were:

$$u_r = a_u \times U_r + b_u$$

$$K_r = a_K \times U_r + b_K$$

$$T_r = a_T \times U_r + b_T$$

$$I_r = a_I \times U_r + b_I$$

**Where:**

- $u_r$  is the radon component in the upward uranium window

- $K_r$ ,  $U_r$ ,  $T_r$  and  $I_r$  are the radon components in the various windows of the downward detectors
- the various “ $a$ ” and “ $b$ ” coefficients are the required calibration constants

After the “ $a$ ” coefficients were established, the background and cosmic corrected thorium, uranium and upward uranium data for each line were smoothed with 3, 3 and 21 point low pass filters (BBH, and Wolf) and 3, 3, and 5 point low pass filter (Hen) to produce  $Th_f$ ,  $U_f$ , and  $u_f$  respectively. The radon component in the downward uranium window was then determined using the following formula:

$$U_r = \frac{(u_f - a_1 \times U_f - a_2 \times Th_f + a_2 \times b_T - b_U)}{(a_u - a_1 - a_2 \times a_T)}$$

**Where:**

- $U_r$  is the radon component in the downward uranium window
- $u_f$  is the filtered upward uranium
- $U_f$  is the filtered uranium
- $Th_f$  is the filtered thorium
- $a_1$ ,  $a_2$  (see section 6.5),  $a_u$  and  $a_t$  are proportionality factors
- $b_u$  and  $b_t$  are background constants

Note: the “ $b$ ” background constants are normally near zero for over-water calibrations and as such they were not included in the calculation of  $U_r$ .

The effects of radon in the downward uranium are removed by directly subtracting  $U_r$  from background and cosmic corrected uranium.

The effects of radon in the Total Count, Potassium, Thorium and upward Uranium are then removed based upon previously established relationships with  $U_r$ .

The corrections were applied using the following formula:

$$C_{rc} = C_{ac} - (ac \times U_r + bc)$$

**Where:**

- $C_{rc}$  is the radon corrected channel
- $C_{ac}$  is the background and cosmic corrected channel

- $U_r$  is the radon component in the downward uranium window
- $ac$  is the proportionality factor and
- $bc$  is the background constant for this channel

### 7.5.5.5 COMPTON STRIPPING

Following the radon corrections the potassium, uranium and thorium were corrected for spectral overlap (see section 6.2). First the stripping ratios  $\alpha$ ,  $\beta$ , and  $\chi$  were modified according to altitude. Then an adjustment factor based on the reversed stripping ratio (a), uranium into thorium, was calculated.

$$\begin{aligned}\alpha h &= \alpha + hef \times 0.00049 \\ \beta h &= \beta + hef \times 0.00065 \\ \chi h &= \chi + hef \times 0.00069\end{aligned}$$

**Where:**

- $\alpha, \beta, \chi$  are the Compton stripping coefficients
- $\alpha h, \beta h, \chi h$  are the height corrected Compton stripping coefficients
- $hef$  is the height above ground in meters

The stripping corrections are then carried out using the following formulas:

$$ar = \frac{1}{1 - a\alpha h}$$

$$Th_c = (Th_{bc} - aU_{rc}) \times ar$$

$$U_c = (U_{rc} - Th_{bc}\alpha h) \times ar$$

$$K_c = K_{bc} - \beta h Th_c - \chi h U_c$$

**Where:**

- $U_c, Th_c,$  and  $K_c$  are corrected Uranium, Thorium and Potassium
- $\alpha h, \beta h, \chi h$  are the height corrected Compton stripping coefficients
- $U_{bc}, Th_{bc},$  and  $K_{bc}$  are background and cosmic corrected Uranium, Thorium and Potassium
- $ar$  is the backscatter correction
- $a$  is the reverse stripping ratio U into Th



### 7.5.5.6 EQUIVALENT HEIGHT AT STP

The following formula was used to calculate Equivalent Height at STP:

$$H_e = H \times \left( \frac{273.15}{T + 273.15} \right) \times \left( \frac{P}{1013.25} \right)$$

**Where:**

- $H$  is the observed height
- $H_e$  is the equivalent height at STP
- $T$  is the temperature in degrees Celsius
- $P$  is the barometric pressure in mbar.

### 7.5.5.7 HEIGHT ATTENUATION CORRECTIONS

The Total Count, Potassium, Uranium and Thorium data were then corrected to a nominal survey altitude of 30m (see section 6.4.1) using the following equation:

$$C_a = C \times e^{-\mu(h_0 - h_e)}$$

**Where:**

- $C_a$  is the output altitude corrected channel
- $C$  is the input channel
- $\mu$  is the attenuation correction for that channel
- $h_e$  is the STP height
- $h_0$  is the nominal survey altitude

The altitude attenuation corrected data were then stored in U\_CORR, Th\_CORR, K\_CORR and TC\_CORR channels.

### 7.5.5.8 LEVELING OF HEIGHT ATTENUATION CORRECTED DATA

The resulting height attenuation corrected data were further microleveled using the following key parameters (see Appendix F for full description of the procedure).

**Table 7.4 Radioelement microlevelling parameters**

Radioelement	Line Spacing (m)	Line Direction (deg.)	Grid Cell Size (m)	Decorrugation Cutoff (m)	Amplitude Limit (nT)	Amplitude Limit Mode	Naudy Filter Limit
U	100	0	20	400	10	Clip	0
K	100	0	20	400	15	Clip	0
Th	100	0	20	400	10	Clip	0
TC	100	0	20	400	100	Clip	0

The resulting microleveled altitude attenuation corrected line data were then stored in the final U\_FINAL, K\_FINAL, Th\_FINAL and TC\_FINAL channels.

Note: in the instances where no microlevelling was applied (i.e., all of the control lines), the data in the final channels were copied directly from U\_CORR, Th\_CORR, K\_CORR and TC\_CORR.

#### 7.5.5.9 CONVERSION TO APPARENT RADIOELEMENT CONCENTRATIONS

The next step is to convert the corrected potassium (K\_FINAL channel), uranium (U\_FINAL channel) and thorium (Th\_FINAL channel) to apparent radioelement concentrations (see section 6.6) using the following formula:

$$eE = C_{cor} / s$$

**Where:**

- $eE$  is the element concentration  $K_{\%}$  and equivalent element concentration of  $U_{ppm}$  &  $Th_{ppm}$
- $s$  is the experimentally determined sensitivity
- $C_{cor}$  is the fully corrected channel

The resulting apparent concentration data were stored in K\_Percent, eU and eTh channels.

Note 1: experimentally determined sensitivities (Table 6.9, Section 6.6) were used when calculating the above apparent radioelement concentrations. These channels were used in producing of the corresponding grids.

Note 2: determining of apparent radioelement concentrations were not part of the signed agreement. Such data are made available to the client as a courtesy.

### 7.5.5.10 AIR ABSORPTION DOSE RATE

Finally the natural air absorption dose rate was determined using the following formula:

$$E = 13.078 \times K_{\%} + 5.675 \times eU_{ppm} + 2.494 \times eTh_{ppm}$$

**Where:**

- $E$  is the air absorption rate ( $nGy/h$ )
- $K_{\%}$  is the concentration of potassium (%)
- $eU_{ppm}$  is the equivalent concentration of potassium (ppm)
- $eTh_{ppm}$  is the equivalent concentration of potassium (ppm)

The resulting natural air absorption rate data were stored in E channel.

Note 1: K\_percent, eU and eTh channels (Section 7.5.5.9) were used when calculating the above air absorption rate. This channel was used in producing of the corresponding grid.

A detailed description of how most of the procedures, formulae and constants were determined could be found in:

I.A.E.A. *Report, Airborne Gamma Ray Spectrometer Surveying*, Technical Report Series No. 323, 1991.

and

I.A.E.A *Guidelines for Radioelement Mapping Using Gamma Ray Spectrometry Data*, Technical Document No. 1363, 2003.

### 7.5.5.11 GRIDDING

Two sets of radiometric grids were produced per block: one, in counts/sec units; and the second set in percent for K, ppm for Th and U, and  $nGy/h$  for E (Dose Rate). The counts/sec grids were made from the corresponding U\_FINAL, Th\_FINAL, K\_FINAL and TC\_FINAL channels. The apparent radioelement concentration grids were made from the corresponding K\_Percent, eTh, eU and E channels.

The data were gridded using a bi-directional line gridding method with a grid cell size of 30 meters, Akima interpolation method for across and down line spline and trend angles perpendicular to those of traverse line directions.

#### **7.5.5.12 TERNARY MAP**

The radioelement ternary map was produced by creating individual grids for each of the three radioelements (potassium, thorium and uranium), then assigning a specific colour to each. Cyan represents thorium, yellow uranium, and magenta potassium. The relative concentrations of the radioelements are represented by the blends of the three colours.

## 8. MAP PRODUCTS AND DIGITAL DATA DELIVERABLES

The following is the list of items delivered to **Ethos Capital Gold Corp.**

### 1) **Hard Copy Maps for BBH, Hen, and Wolf @ 1:50,000 scale (x2):**

- Maps of Total Magnetic Intensity
- Maps of Ternary Image (Th, U and K)
- Maps of Potassium counts
- Maps of Thorium counts
- Maps of Uranium counts
- Maps of Total Count

### 2) **Hard Copy Logistics Report (x2):**

### 3) **Digital Copy (DVD) Maps for BBH, Hen, and Wolf @ 1:50,000 scale (x2):**

- Maps of Total Magnetic Intensity
- Maps of Potassium counts
- Maps of Thorium counts
- Maps of Uranium counts
- Maps of Total Count
- Ternary Map of Th, U and K

### 4) **Digital Copy Grids (DVD) for BBH, Hen, and Wolf (x2):**

- Grids of Total Magnetic Intensity (nT)
- Grids of 1<sup>st</sup> order Vertical Derivative (nT/m)
- Grids of Potassium (counts/sec)
- Grids of Thorium (counts/sec)
- Grids of Uranium (counts/sec)
- Grids of Total Count (counts/sec)
- Grids of Apparent Potassium concentrations (%)
- Grids of Apparent Thorium concentrations (ppm)
- Grids of Apparent Uranium concentrations (ppm)
- Grids of Air Absorption Dose Rates (*nGy/h*)

### 5) **Digital Copy (DVD) Databases for BBH, Hen, and Wolf (x2):**

- Magnetics data databases: *Block Name\_Magnetic\_Data.gdb* (see Appendix C for details)
- Radiometric data database: *Block Name Radiometric\_Data.gdb* (see Appendix C for details)

### 6) **Digital Copy (DVD) Logistics Report (x2)**

### 7) **Digital Copy (DVD) Weekly and Line Report (x2)**

## 9. SUMMARY

This report describes the logistics of the survey, equipment used, field procedures, data acquisition and presentation of results.

The various maps included with this report display the magnetic and radiometric properties of the survey area. It is recommended that the survey results be reviewed in detail, in conjunction with all available geophysical, geological and geochemical information.

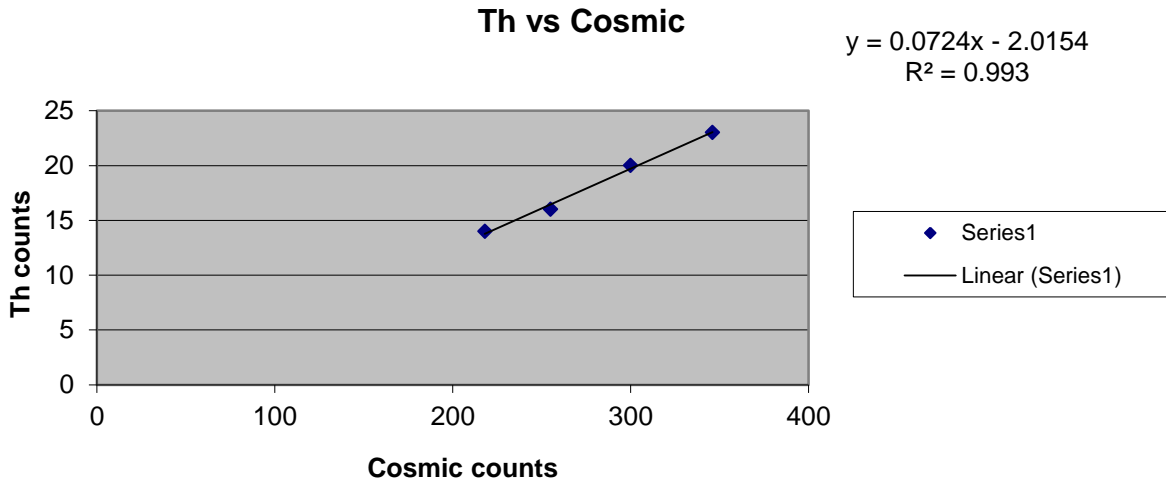
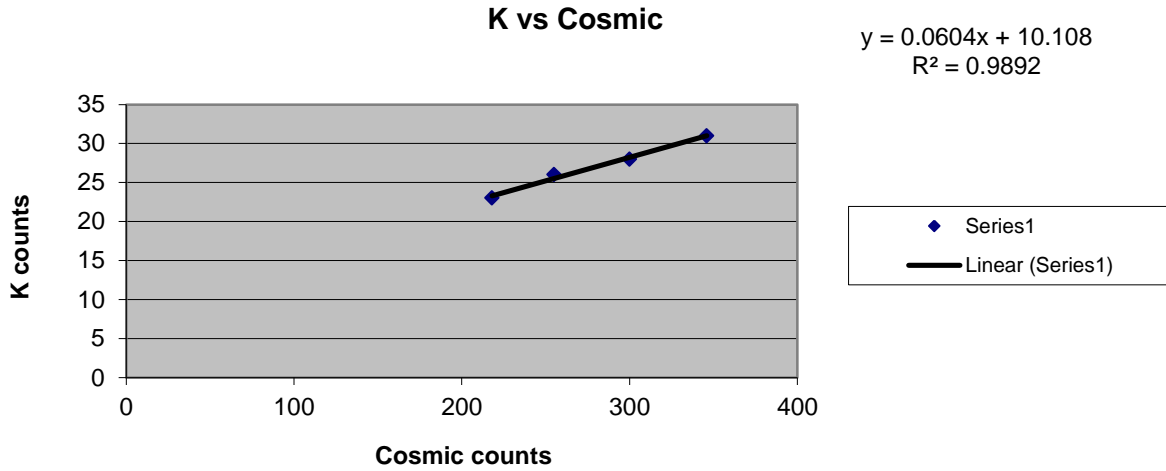
Further processing of the data may enhance subtle features that can be of importance for exploration purposes.

Respectfully submitted,

Andrei Yakovenko  
New-Sense Geophysics Ltd.  
Date: October 27<sup>th</sup>, 2011

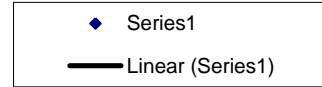
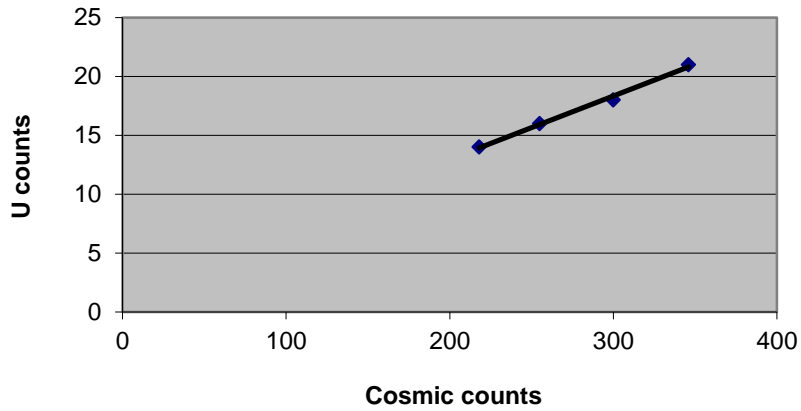
**APPENDIX A: BACKGROUND, COSMIC AND ALTITUDE ATTENUATION TEST CHARTS**

**Background & Cosmic**



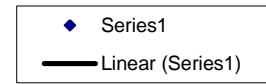
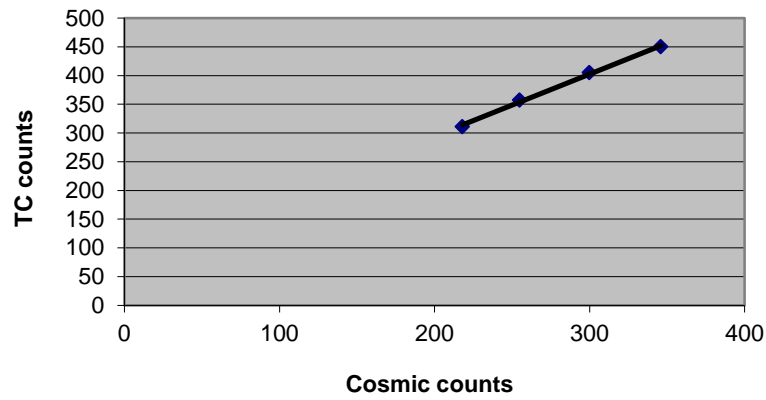
**U vs Cosmic**

$$y = 0.0537x + 2.231$$
$$R^2 = 0.994$$



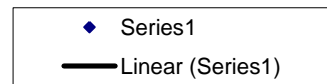
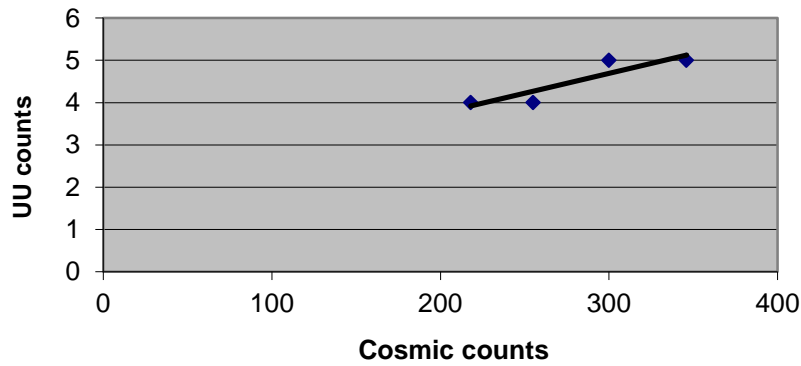
**TC vs Cosmic**

$$y = 1.0812x + 78.286$$
$$R^2 = 0.9973$$



**UU vs Cosmic**

$$y = 0.0094x + 1.8768$$
$$R^2 = 0.8111$$

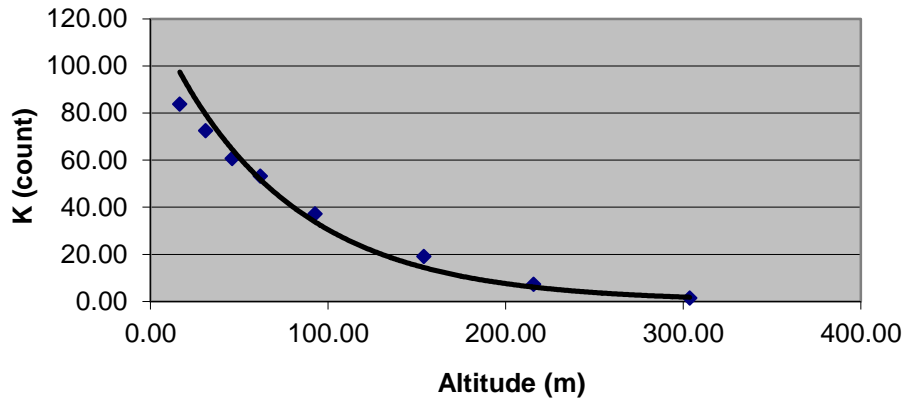




## Altitude Attenuation Test

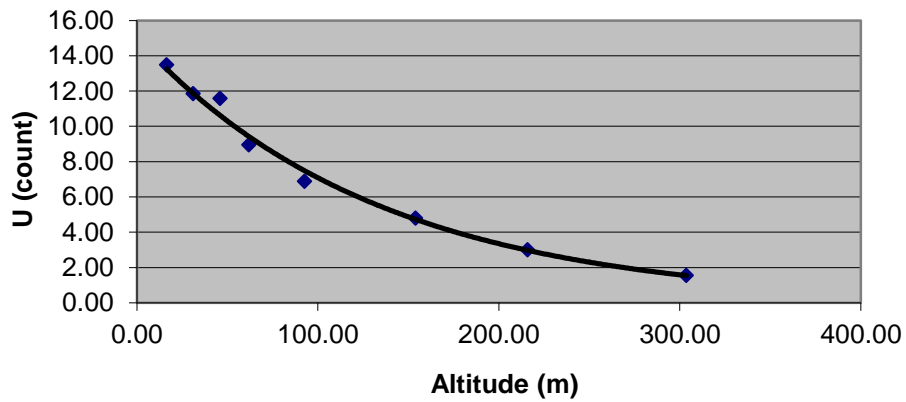
### Potassium vs Height

$$y = 122.38e^{-0.014x}$$
$$R^2 = 0.9837$$

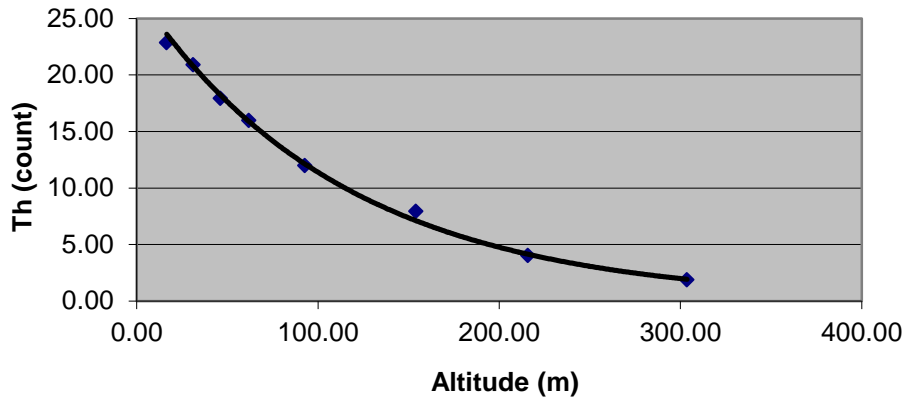


### Uranium vs Height

$$y = 14.982e^{-0.007x}$$
$$R^2 = 0.9956$$

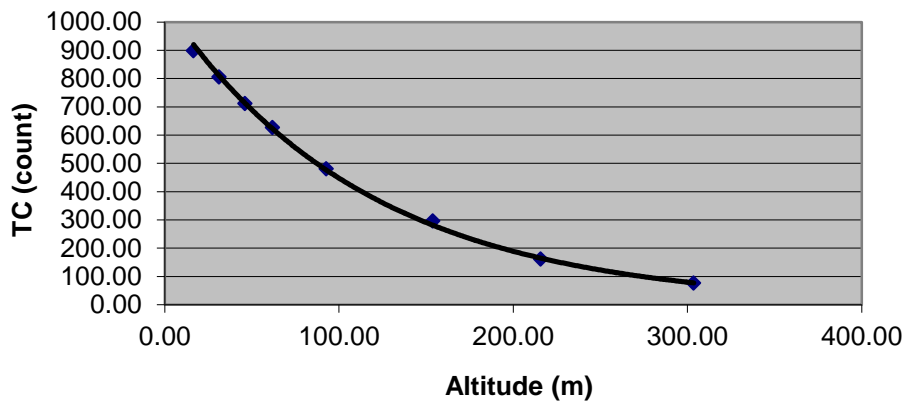


### Thorium vs Height



$$y = 27.264e^{-0.009x}$$
$$R^2 = 0.9972$$

### Total Count vs Height

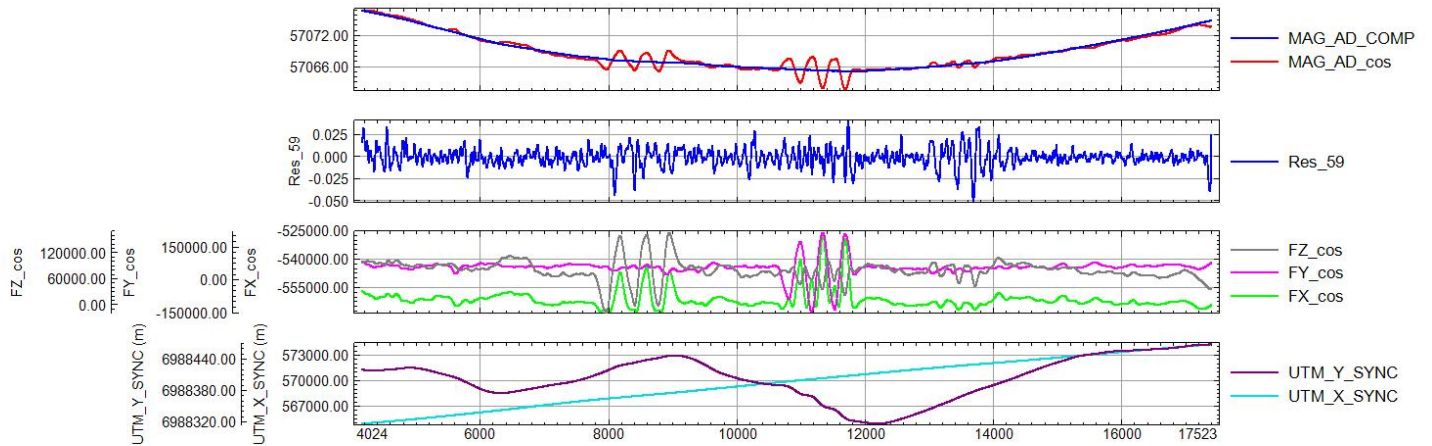


$$y = 1060.7e^{-0.009x}$$
$$R^2 = 0.9993$$

## APPENDIX B: FOM RESULTS

FOM 07082011				
direction	pitch	roll	yaw	total
270	0.06	0.05	0.05	0.16
90	0.06	0.06	0.08	0.20
0	0.08	0.04	0.05	0.16
180	0.06	0.06	0.06	0.18
<b>total</b>	0.25	0.21	0.24	<b>0.70</b>

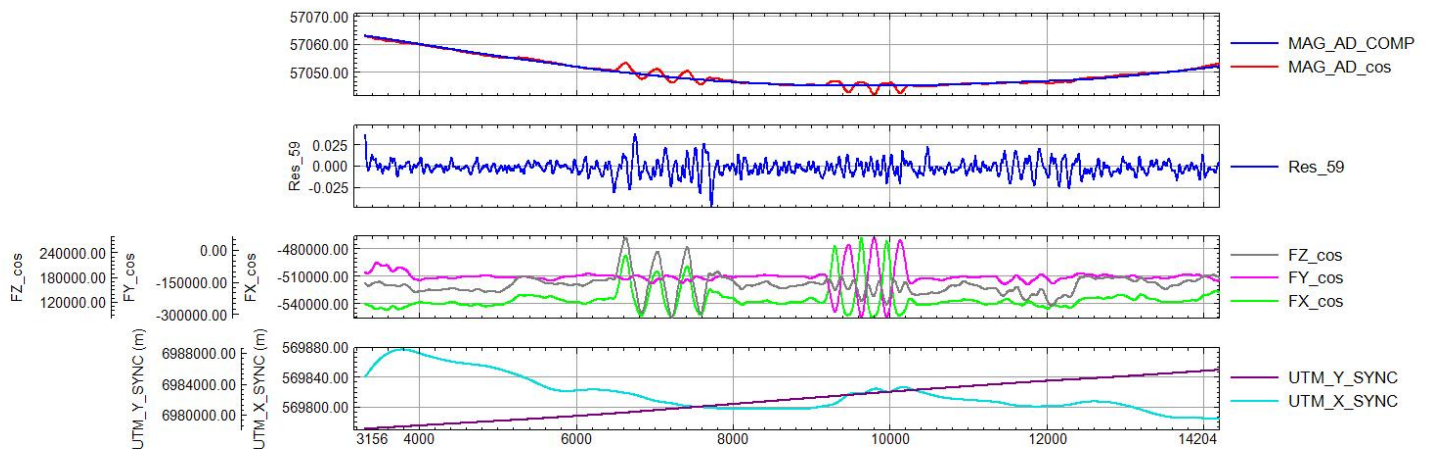
### FOM, East direction, 07082011



database: d:\yukon2011\Ethos\FOMFOM 07082011\om\_07082011\_comp.gdb line/group: L12

2011/07/08

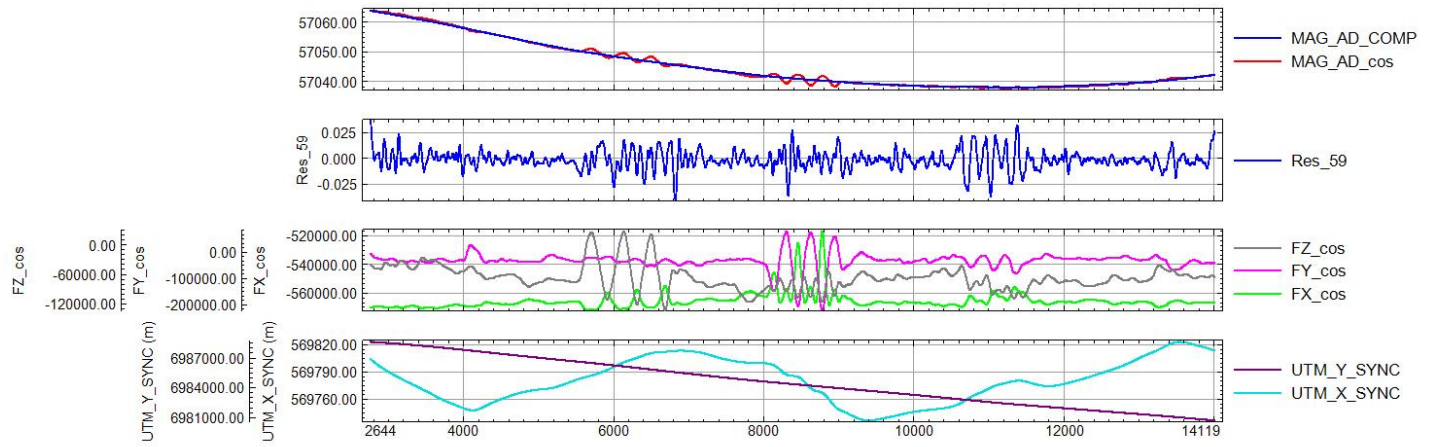
### FOM, North direction, 07082011



database: d:\yukon2011\Ethos\FOMFOM 07082011\om\_07082011\_comp.gdb line/group: L21

2011/07/08

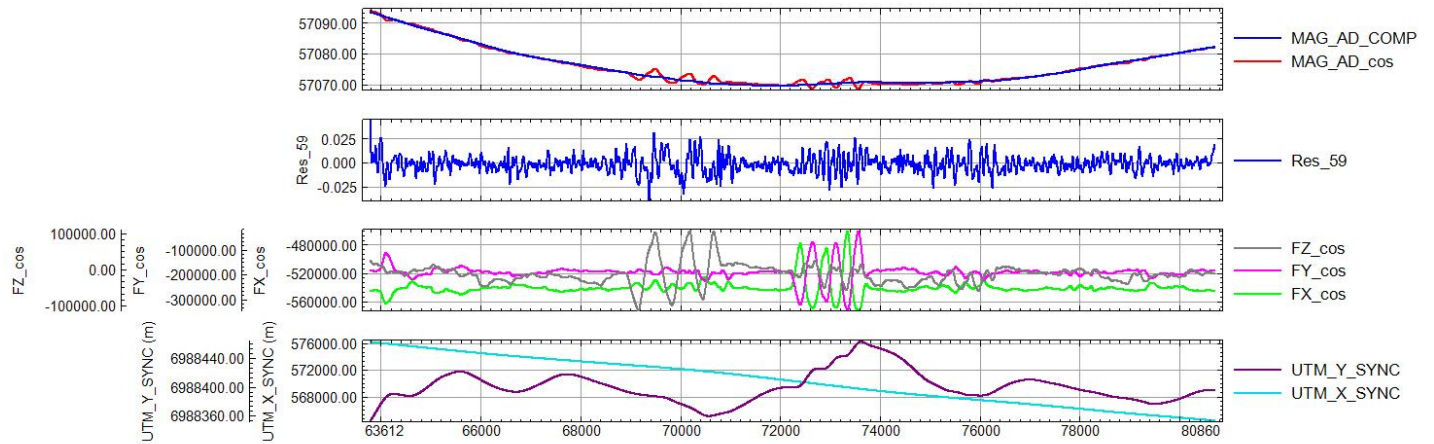
### FOM, South direction, 07082011



database: d:\yukon2011\Ethos\FOMFOM 07082011\ fom\_07082011\_comp.gdb line/group: L22

2011/07/08

### FOM, West direction, 07082011

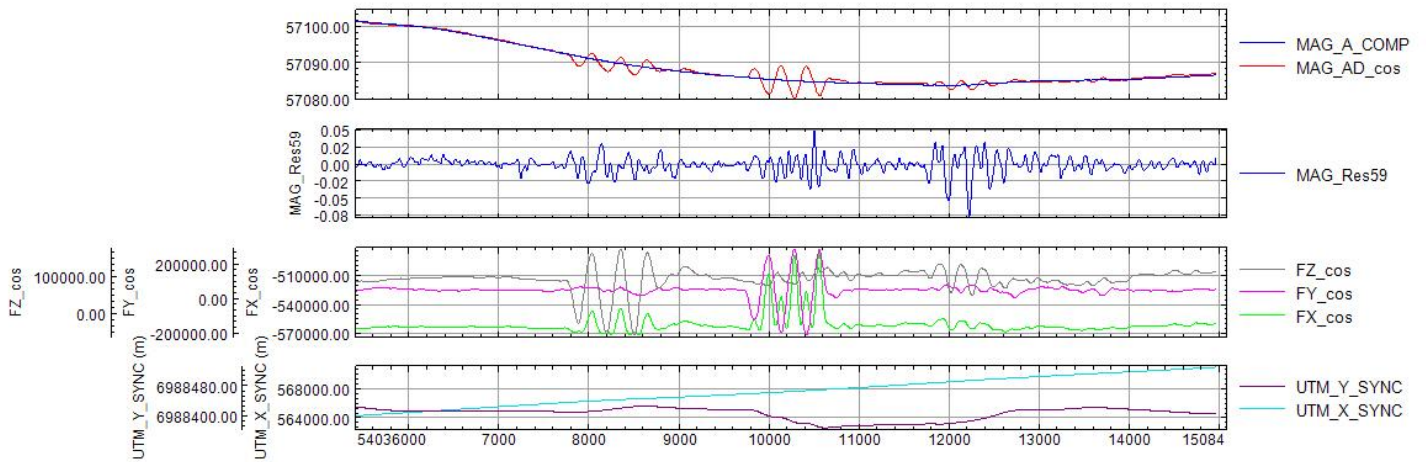


database: d:\yukon2011\Ethos\FOMFOM 07082011\ fom\_07082011\_comp.gdb line/group: L11

2011/07/08

FOM 07222011				
direction	pitch	roll	yaw	total
270	0.10	0.06	0.05	0.21
90	0.06	0.08	0.10	0.24
180	0.09	0.06	0.10	0.25
0	0.11	0.06	0.10	0.27
<b>total</b>	<b>0.36</b>	<b>0.27</b>	<b>0.35</b>	<b>0.97</b>

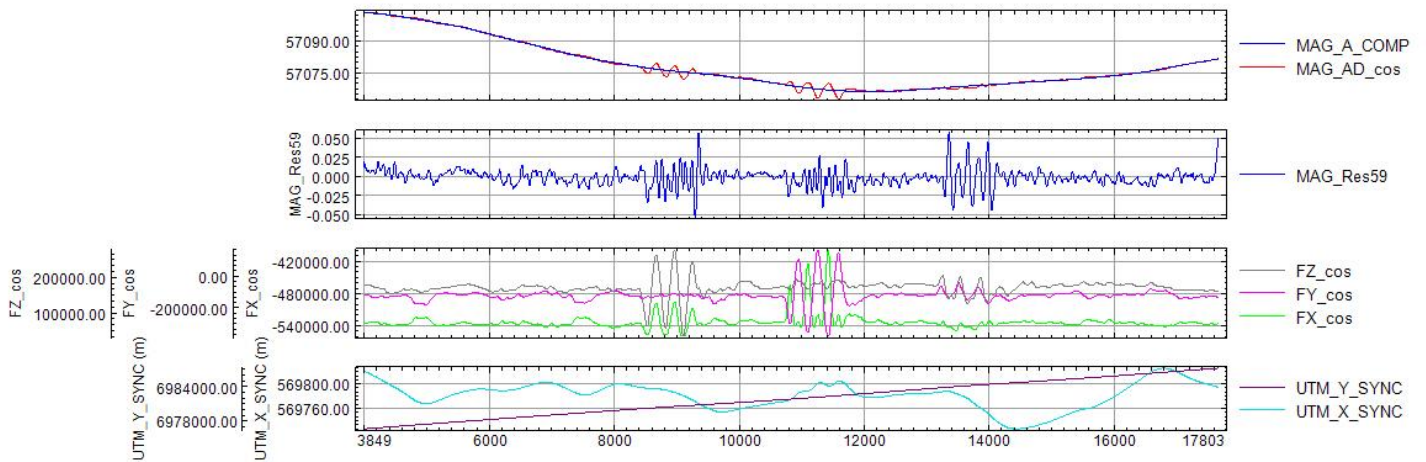
### FOM, East direction, 07222011



database: d:\yukon2011\Ethos\FOM\FOM 07222011\FOM\_07222011\_comp.gdb line/group: L12

2011/07/23

### FOM, North direction, 07222011

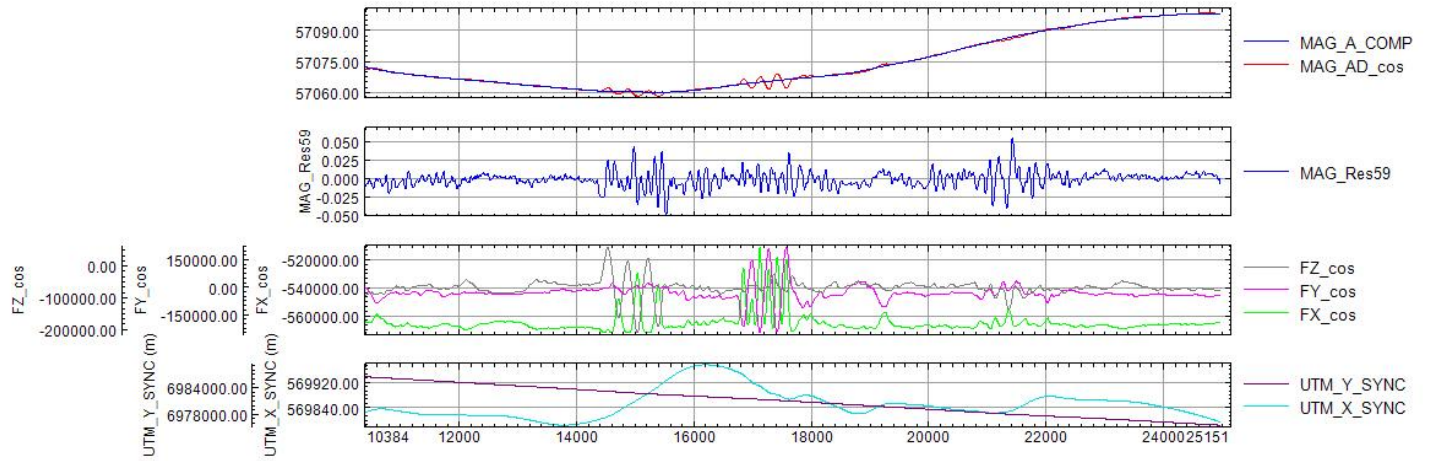


database: d:\yukon2011\Ethos\FOM\FOM 07222011\FOM\_07222011\_comp.gdb line/group: L21

2011/07/23



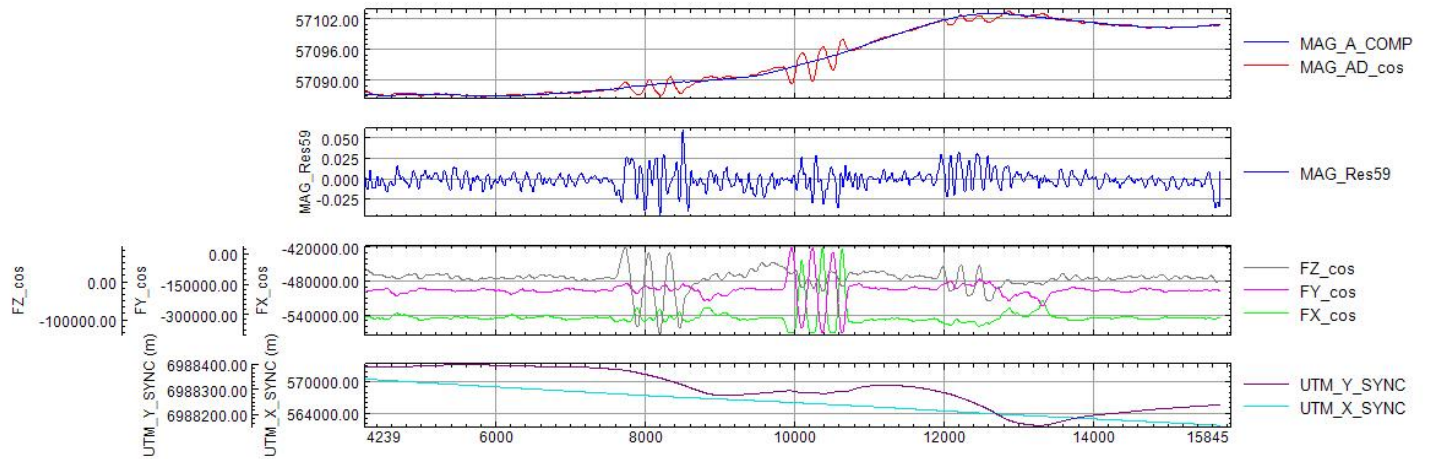
### FOM, South direction, 07222011



database: d:\yukon2011\Ethos\FOM\FOM 07222011\FOM\_07222011\_comp.gdb line/group: L20

2011/07/23

### FOM, West direction, 07222011



database: d:\yukon2011\Ethos\FOM\FOM 07222011\FOM\_07222011\_comp.gdb line/group: L11

2011/07/23

## APPENDIX C: DATABASE DESCRIPTIONS

### Magnetic Databases for BBH, Hen, and Wolf blocks

Database Name: *Block Name\_Magnetic\_Data.gdb*

Format: Geosoft .gdb

Number of Channels: 28 (BBH); 27 (Hen, Wolf)

Note: If the database is opened in Oasis montaj, please load included “*Magnetic data Geosoft channel display.dbview*” file to insure that ALL the channels are displayed in the same order as listed below (Database menu -> Get Saved View).

Channel Name	Units	Description
LINE	number	Line number
DATE	date	Date flown (YYMMDD)
FLIGHT	number	Flight number
FIDUCIAL	number	Fiducial count (flight specific)
SYSTEM_CLOCK	milsec	KANA8 (A/D converter) counter
WGS84_X	meters	WGS84, World, UTM Zone 7N
WGS84_Y	meters	WGS84, World, UTM Zone 7N
LATITUDE_WGS84	degrees	GPS latitude, WGS 84, World
LONGITUDE_WGS84	degrees	GPS longitude, WGS 84, World
GPS_HEIGHT_WGS84	meters	GPS height (orthometric) above MSL, WGS 84, World
UTC_DAYSEC	decimal seconds	UTC daily second counter (0-86399)
FLUX_X	volts	Fluxgate x-axis
FLUX_Y	volts	Fluxgate y-axis
FLUX_Z	volts	Fluxgate z-axis
RAD_ALT_feet	ft	Radar altimeter, height above ground
MAG_RAW	nT	Raw magnetometer data
MAG_FILT	nT	Filtered raw magnetometer data
MAG_COMP	nT	Compensated magnetometer data
DIURNAL	nT	Base station magnetometer data
MAG_DIURNAL_CORR	nT	Base station (diurnal) corrected magnetometer data
MAG_HEADING_CORR	nT	Heading corrected magnetometer data
MAG_LAG_CORR	nT	Lag corrected magnetometer data
IGRF	nT	Calculated IGRF, using 2010 model
MAG_IGRF_CORR	nT	IGRF corrected magnetometer data
MAG_SMPL_LVL	nT	Conventionally (simple) leveled magnetometer data
TMI_FINAL	nT	Microleveled MAG_SMPL_LVL data
TMI_decor	nT	Fully decorrugated MAG_SMPL_LVL data (BBH block only)
VDV	nT/m	1 <sup>st</sup> order Vertical Derivative (VDV)

## Radiometric Databases for BBH, Hen, and Wolf blocks

Database Name: *Block Name\_Radiometric\_Data.gdb*

Format: Geosoft .gdb

Number of Channels: 35

Note: If the database is opened in Oasis montaj, please load included “*Radiometric data Geosoft channel display.dbview*” file to insure that ALL the channels are displayed in the same order as listed below (Database menu -> Get Saved View).

Channel Name	Units	Description
LINE	number	Line Number
FLIGHT	number	Flight Number
DATE	date	Date flown (YYMMDD)
FIDUCIAL	number	Fiducial count (line specific)
WGS84_X	meters	WGS84, World, UTM Zone 7N
WGS84_Y	meters	WGS84, World, UTM Zone 7N
LATITUDE_WGS84	degrees	GPS latitude, WGS 84, World
LONGITUDE_WGS84	degrees	GPS longitude, WGS 84, World
GPS_HEIGHT_WGS84	meters	GPS height (orthometric) above MSL, WGS 84, World
UTC_DAYSEC	seconds	UTC daily second counter (0-86399)
RAD_ALT_feet	feet	Radar altimeter, height above ground
EQUIVALENT_HEIGHT_m	m	Equivalent height above ground at STP
PRESSURE	mbar	Ambient pressure output
TEMPERATURE	degrees C	Ambient temperature output
DOWN_LIVE_TIME	seconds	Live time channel
RAW_Potassium	counts/sec	Raw Potassium channel
RAW_Thorium	counts/sec	Raw Thorium channel
RAW_Uranium	counts/sec	Raw Uranium channel
RAW_TotCount	counts/sec	Raw Total Count channel
RAW_UpDet	counts/sec	Raw upward looking crystal Uranium channel
DOWN_COSMIC	counts/sec	Raw Cosmic channel from downward looking crystals
DOWN_SPECTRUM	counts/sec	1024 channel down spectrum
UP_SPECTRUM	counts/sec	1024 channel up spectrum
K_CORR	counts/sec	Live Time, Background, Cosmic, Compton Scattering and Altitude Attenuation corrected Potassium counts
Th_CORR	counts/sec	Live Time, Background, Cosmic, Compton Scattering and Altitude Attenuation corrected Thorium counts
U_CORR	counts/sec	Live Time, Background, Cosmic, Compton Scattering and Altitude Attenuation corrected Uranium counts
TC_CORR	counts/sec	Live Time, Background, Cosmic, Compton Scattering and Altitude Attenuation corrected Total Count counts
K_FINAL	counts/sec	Final Potassium counts; microleveled K_CORR



Th_FINAL	counts/sec	Final Thorium counts; microleveled Th_CORR
U_FINAL	counts/sec	Final Uranium counts; microleveled U_CORR
TC_FINAL	counts/sec	Final Total Count counts; microleveled TC_CORR
K_Percent	%	Estimated concentrations of Potassium
eTh	ppm	Estimated equivalent concentrations of Thorium
eU	ppm	Estimated equivalent concentrations of Uranium
E	nGy/h	Natural air absorption Dose Rate

## APPENDIX D: RSX-5 SPECTROMETER (SN 5516): DAILY RESOLUTION TESTS RESULTS

Executed 2011-07-08 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2002	2004	2008	2002	8016
LiveTime [s]	293.855	343.842	345.868	319.834	869.706	1303.399
Gain	1.005957	1.027845	1.020081	0.989293	1.120768	-
Peak	871.89 (+/- 0.508)	871.90 (+/- 0.557)	870.66 (+/- 0.593)	870.94 (+/- 0.711)	870.55 (+/- 1.165)	871.61 (+/- 0.321)
FWHM	4.51 (+/- 1.290)	4.69 (+/- 1.448)	4.72 (+/- 1.526)	5.35 (+/- 1.948)	5.68 (+/- 3.377)	4.66 (+/- 0.818)

Executed 2011-07-09 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2004	2003	2004	2004	2004	8015
LiveTime [s]	288.854	319.848	338.873	315.835	920.69	1263.41
Gain	0.965127	0.982784	0.969291	0.940595	1.075073	-
Peak	868.95 (+/- 0.711)	870.85 (+/- 0.564)	870.58 (+/- 0.637)	868.75 (+/- 0.633)	869.94 (+/- 1.584)	870.11 (+/- 0.361)
FWHM	4.95 (+/- 1.964)	4.20 (+/- 1.480)	4.62 (+/- 1.786)	4.98 (+/- 1.819)	6.35 (+/- 5.696)	4.52 (+/- 0.975)

Executed 2011-07-09 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2003	2002	2003	2002	8010
LiveTime [s]	305.832	340.822	355.852	313.831	911.677	1316.337
Gain	1.003981	1.023372	1.009326	0.984109	1.123193	-
Peak	873.35 (+/- 0.751)	870.26 (+/- 0.663)	869.81 (+/- 0.554)	870.49 (+/- 0.557)	872.73 (+/- 1.652)	871.10 (+/- 0.339)
FWHM	4.63 (+/- 1.930)	4.44 (+/- 1.804)	4.53 (+/- 1.518)	5.21 (+/- 1.466)	6.51 (+/- 5.400)	4.59 (+/- 0.899)

Executed 2011-07-09 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2001	2006	2003	2003	8011
LiveTime [s]	296.846	335.837	342.865	320.838	894.713	1296.386
Gain	1.007211	1.025139	1.016897	0.988023	1.125492	-
Peak	870.37 (+/- 0.585)	872.88 (+/- 0.583)	869.31 (+/- 0.552)	870.86 (+/- 0.669)	869.84 (+/- 1.119)	870.92 (+/- 0.274)

FWHM	4.73 (+/- 1.519)	4.60 (+/- 1.516)	4.59 (+/- 1.444)	5.23 (+/- 1.648)	6.05 (+/- 3.678)	4.69 (+/- 0.715)
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Executed 2011-07-09 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2009	2004	2003	2006	2001	8022
LiveTime [s]	297.86	326.846	341.882	306.848	878.718	1273.435
Gain	0.993934	1.008731	1.005882	0.975553	1.118298	-
Peak	871.09 (+/- 0.581)	871.20 (+/- 0.538)	869.30 (+/- 0.573)	872.26 (+/- 0.797)	871.06 (+/- 1.528)	871.02 (+/- 0.268)
FWHM	4.47 (+/- 1.484)	4.49 (+/- 1.396)	4.77 (+/- 1.525)	5.57 (+/- 2.179)	6.72 (+/- 5.199)	4.72 (+/- 0.690)

Executed 2011-07-10 RSI System Test Report RSX-5 SN5516\_1\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2004	2005	2007	2007	2001	8023
LiveTime [s]	290.856	346.822	343.866	307.836	842.707	1289.38
Gain	0.986635	1.004481	0.988121	0.965388	1.108594	-
Peak	872.85 (+/- 0.728)	871.68 (+/- 0.588)	870.45 (+/- 0.545)	870.80 (+/- 0.617)	869.21 (+/- 1.373)	871.59 (+/- 0.342)
FWHM	5.42 (+/- 2.047)	4.19 (+/- 1.580)	4.37 (+/- 1.490)	5.06 (+/- 1.621)	6.62 (+/- 4.139)	4.59 (+/- 0.912)

Executed 2011-07-10 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2001	2003	2001	2001	8010
LiveTime [s]	294.835	324.839	335.87	309.829	848.696	1265.373
Gain	1.006538	1.024236	1.019202	0.987569	1.14286	-
Peak	871.66 (+/- 0.549)	871.57 (+/- 0.568)	869.33 (+/- 0.749)	871.56 (+/- 0.608)	867.55 (+/- 1.471)	871.11 (+/- 0.298)
FWHM	4.51 (+/- 1.383)	4.38 (+/- 1.502)	4.21 (+/- 2.198)	4.74 (+/- 1.639)	6.96 (+/- 4.369)	4.36 (+/- 0.769)

Executed 2011-07-11 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2004	2007	2005	2003	2002	8019
LiveTime [s]	294.838	344.83	338.856	309.83	883.667	1288.354
Gain	0.96226	0.979088	0.96696	0.939516	1.093128	-

Peak	870.01 (+/- 0.665)	870.74 (+/- 0.496)	869.83 (+/- 0.627)	870.71 (+/- 0.767)	868.06 (+/- 1.469)	870.51 (+/- 0.290)
FWHM	4.64 (+/- 1.808)	4.54 (+/- 1.342)	4.58 (+/- 1.593)	4.92 (+/- 2.086)	6.73 (+/- 4.987)	4.56 (+/- 0.737)

Executed 2011-07-11 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2004	2005	2001	2007	2001	8017
LiveTime [s]	279.84	328.821	341.86	310.817	857.646	1261.338
Gain	1.004249	1.021573	1.013704	0.983699	1.138458	-
Peak	872.87 (+/- 0.740)	870.60 (+/- 0.686)	870.03 (+/- 0.549)	870.78 (+/- 0.721)	871.63 (+/- 1.166)	871.19 (+/- 0.311)
FWHM	4.43 (+/- 2.076)	4.62 (+/- 1.852)	4.41 (+/- 1.468)	5.40 (+/- 2.037)	5.52 (+/- 4.048)	4.62 (+/- 0.799)

Executed 2011-07-11 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2006	2004	2003	2002	8015
LiveTime [s]	294.856	323.84	334.873	311.841	868.708	1265.41
Gain	1.00244	1.020521	1.014929	0.983112	1.14356	-
Peak	870.58 (+/- 0.676)	871.51 (+/- 0.577)	871.27 (+/- 0.580)	872.01 (+/- 0.604)	877.54 (+/- 1.694)	871.70 (+/- 0.310)
FWHM	4.51 (+/- 1.877)	4.43 (+/- 1.511)	4.72 (+/- 1.595)	5.14 (+/- 1.698)	6.29 (+/- 6.495)	4.61 (+/- 0.835)

Executed 2011-07-22 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2002	2004	2005	2002	8012
LiveTime [s]	288.835	322.82	328.852	287.829	760.682	1228.335
Gain	0.974561	0.999103	0.985881	0.949944	1.178982	-
Peak	870.01 (+/- 0.691)	871.27 (+/- 0.521)	872.07 (+/- 0.474)	870.85 (+/- 0.589)	886.51 (+/- 1.794)	871.06 (+/- 0.303)
FWHM	5.52 (+/- 1.921)	4.41 (+/- 1.360)	4.74 (+/- 1.260)	5.33 (+/- 1.532)	4.37 (+/- 6.731)	4.84 (+/- 0.816)

Executed 2011-07-22 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2008	2006	2003	2004	2004	8021
LiveTime	286.838	309.835	323.86	301.833	851.687	1222.365

[s]						
Gain	0.997556	1.019198	1.016834	0.975986	1.130951	-
Peak	871.94 (+/- 0.665)	872.92 (+/- 0.595)	870.49 (+/- 0.592)	870.90 (+/- 0.570)	870.33 (+/- 1.285)	871.55 (+/- 0.303)
FWHM	5.07 (+/- 1.751)	4.48 (+/- 1.576)	4.62 (+/- 1.565)	5.05 (+/- 1.468)	6.40 (+/- 3.903)	4.66 (+/- 0.800)

Executed 2011-07-22 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2011	2004	2001	2003	8017
LiveTime [s]	278.843	325.838	323.864	317.828	911.667	1246.372
Gain	0.998993	1.01842	1.019103	0.976643	1.130417	-
Peak	872.38 (+/- 0.544)	872.35 (+/- 0.690)	871.30 (+/- 0.599)	869.00 (+/- 0.643)	871.36 (+/- 1.381)	871.45 (+/- 0.267)
FWHM	4.62 (+/- 1.452)	4.62 (+/- 1.942)	4.64 (+/- 1.562)	5.28 (+/- 1.774)	5.58 (+/- 4.291)	4.63 (+/- 0.690)

Executed 2011-07-22 RSI System Test Report RSX-5 SN5516\_bfore\_hv\_change.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2002	2007	2003	2002	8017
LiveTime [s]	290.855	312.846	321.874	303.845	865.692	1229.42
Gain	0.989691	1.011621	1.000971	0.966365	1.196809	-
Peak	871.27 (+/- 0.635)	870.99 (+/- 0.555)	870.46 (+/- 0.539)	869.28 (+/- 0.610)	869.66 (+/- 1.165)	870.59 (+/- 0.297)
FWHM	4.56 (+/- 1.631)	4.35 (+/- 1.455)	4.64 (+/- 1.388)	5.09 (+/- 1.607)	5.99 (+/- 3.449)	4.55 (+/- 0.757)

Executed 2011-07-22 RSI System Test Report RSX-5 SN5516\_hv-change\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2003	2006	2005	2005	2001	8019
LiveTime [s]	289.842	321.846	323.874	285.846	868.692	1221.407
Gain	0.997139	1.017452	1.008252	0.974123	1.122986	-
Peak	870.97 (+/- 0.610)	872.10 (+/- 0.480)	870.03 (+/- 0.606)	868.09 (+/- 0.653)	871.58 (+/- 1.369)	870.45 (+/- 0.261)
FWHM	4.37 (+/- 1.526)	4.50 (+/- 1.212)	4.39 (+/- 1.616)	5.01 (+/- 1.799)	6.24 (+/- 4.101)	4.51 (+/- 0.679)

Executed 2011-07-22 RSI System Test Report RSX-5 SN5516\_hv-change\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done

Counts	2006	2007	2004	2006	2001	8023
LiveTime [s]	294.845	330.839	335.866	303.837	901.685	1265.386
Gain	1.001384	1.021018	1.011785	0.976316	1.127187	-
Peak	871.22 (+/- 0.577)	871.43 (+/- 0.647)	870.16 (+/- 0.548)	869.95 (+/- 0.566)	872.47 (+/- 1.110)	870.77 (+/- 0.323)
FWHM	4.74 (+/- 1.486)	4.34 (+/- 1.626)	4.51 (+/- 1.509)	5.10 (+/- 1.491)	6.17 (+/- 3.284)	4.58 (+/- 0.824)

Executed 2011-07-23 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2006	2006	2006	2005	2001	8023
LiveTime [s]	278.84	319.83	323.866	314.816	845.674	1237.352
Gain	1.000664	1.018027	1.014188	0.976159	1.130836	-
Peak	872.61 (+/- 0.543)	871.94 (+/- 0.487)	870.42 (+/- 0.635)	871.20 (+/- 0.756)	864.34 (+/- 1.577)	871.63 (+/- 0.276)
FWHM	4.66 (+/- 1.403)	4.27 (+/- 1.276)	4.72 (+/- 1.758)	4.93 (+/- 2.153)	5.48 (+/- 5.150)	4.59 (+/- 0.716)

Executed 2011-07-23 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2010	2006	2001	2008	2002	8025
LiveTime [s]	281.847	312.841	326.871	289.849	866.701	1211.408
Gain	1.002403	1.018014	1.019248	0.979054	1.138479	-
Peak	872.81 (+/- 0.577)	871.85 (+/- 0.544)	869.94 (+/- 0.625)	871.46 (+/- 0.596)	874.78 (+/- 1.196)	871.58 (+/- 0.320)
FWHM	4.85 (+/- 1.497)	4.51 (+/- 1.479)	4.55 (+/- 1.669)	5.37 (+/- 1.583)	5.80 (+/- 4.028)	4.76 (+/- 0.841)

Executed 2011-07-23 RSI System Test Report RSX-5 SN5516\_5.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2012	2008	2003	2004	2001	8027
LiveTime [s]	279.852	317.837	330.865	306.834	890.697	1235.388
Gain	0.999365	1.019266	1.020506	0.97606	1.13871	-
Peak	871.96 (+/- 0.609)	870.88 (+/- 0.533)	871.65 (+/- 0.720)	871.13 (+/- 0.705)	871.20 (+/- 1.442)	871.44 (+/- 0.351)
FWHM	4.46 (+/- 1.636)	4.05 (+/- 1.384)	4.66 (+/- 2.002)	5.03 (+/- 1.963)	6.43 (+/- 4.302)	4.44 (+/- 0.921)

Executed 2011-07-23 RSI System Test Report RSX-5 SN5516\_7.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2009	2001	2005	2002	2003	8017
LiveTime [s]	313.851	342.834	350.863	304.84	744.733	1312.389
Gain	0.993825	1.015923	1.018179	0.971854	1.133551	-
Peak	871.73 (+/- 0.663)	871.44 (+/- 0.661)	870.61 (+/- 0.666)	871.66 (+/- 0.868)	873.13 (+/- 1.098)	871.57 (+/- 0.419)
FWHM	4.51 (+/- 1.782)	4.62 (+/- 1.721)	4.41 (+/- 1.750)	5.43 (+/- 2.388)	7.10 (+/- 3.301)	4.58 (+/- 1.118)

Executed 2011-07-24 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2002	2001	2002	2003	8007
LiveTime [s]	286.821	315.827	324.854	294.822	880.622	1222.325
Gain	0.958439	0.975592	0.970669	0.933628	1.095805	-
Peak	871.89 (+/- 0.689)	871.10 (+/- 0.667)	870.47 (+/- 0.638)	871.64 (+/- 0.576)	869.90 (+/- 1.205)	871.29 (+/- 0.305)
FWHM	4.67 (+/- 1.768)	4.43 (+/- 1.845)	4.54 (+/- 1.763)	4.99 (+/- 1.511)	4.57 (+/- 3.900)	4.52 (+/- 0.796)

Executed 2011-07-24 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2009	2003	2003	2005	2001	8020
LiveTime [s]	293.816	309.829	313.868	297.826	876.635	1215.339
Gain	0.993787	1.011827	1.005978	0.96997	1.134415	-
Peak	872.02 (+/- 0.677)	871.02 (+/- 0.634)	869.11 (+/- 0.590)	867.84 (+/- 0.796)	869.94 (+/- 1.692)	870.16 (+/- 0.333)
FWHM	4.92 (+/- 1.739)	4.57 (+/- 1.621)	4.20 (+/- 1.547)	5.06 (+/- 2.312)	7.19 (+/- 5.454)	4.59 (+/- 0.845)

Executed 2011-07-25 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2006	2003	2005	2002	2001	8016
LiveTime [s]	308.845	330.841	351.866	313.834	939.681	1305.386
Gain	0.973682	0.995498	0.985348	0.947443	1.122622	-
Peak	871.26 (+/- 0.635)	871.52 (+/- 0.570)	869.44 (+/- 0.538)	869.67 (+/- 0.733)	869.97 (+/- 1.308)	870.54 (+/- 0.300)
FWHM	4.79 (+/- 1.724)	4.40 (+/- 1.528)	4.20 (+/- 1.411)	5.66 (+/- 2.037)	7.26 (+/- 3.968)	4.54 (+/- 0.782)

Executed 2011-07-25 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2003	2004	2003	2001	2002	8011
LiveTime [s]	276.854	327.835	337.866	301.843	915.699	1244.399
Gain	1.004547	1.025271	1.016858	0.980646	1.155425	-
Peak	872.19 (+/- 0.511)	872.50 (+/- 0.602)	870.45 (+/- 0.706)	871.24 (+/- 0.624)	868.84 (+/- 1.591)	871.73 (+/- 0.325)
FWHM	4.56 (+/- 1.254)	4.42 (+/- 1.638)	4.95 (+/- 1.905)	5.14 (+/- 1.639)	5.98 (+/- 5.597)	4.63 (+/- 0.831)

Executed 2011-07-26 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2006	2001	2002	2001	2004	8010
LiveTime [s]	286.847	343.829	338.865	320.828	901.693	1290.369
Gain	1.011235	1.033321	1.021587	0.98733	1.167189	-
Peak	871.21 (+/- 0.618)	870.54 (+/- 0.666)	870.56 (+/- 0.541)	871.07 (+/- 0.730)	870.48 (+/- 1.262)	870.96 (+/- 0.344)
FWHM	4.60 (+/- 1.683)	4.68 (+/- 1.769)	4.51 (+/- 1.413)	5.30 (+/- 2.028)	6.22 (+/- 3.995)	4.65 (+/- 0.898)

Executed 2011-07-26 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2007	2002	2005	2002	2002	8016
LiveTime [s]	296.847	330.833	341.867	312.832	897.691	1282.379
Gain	1.012946	1.032999	1.02356	0.988164	1.166284	-
Peak	871.56 (+/- 0.630)	871.55 (+/- 0.639)	870.37 (+/- 0.594)	870.26 (+/- 0.708)	870.84 (+/- 1.393)	871.21 (+/- 0.342)
FWHM	4.95 (+/- 1.691)	4.63 (+/- 1.724)	4.36 (+/- 1.575)	5.70 (+/- 1.850)	7.17 (+/- 4.128)	4.79 (+/- 0.901)

Executed 2011-07-26 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2009	2001	2006	2003	8021
LiveTime [s]	281.856	319.844	337.869	301.843	912.689	1241.412
Gain	1.009765	1.030329	1.023171	0.985724	1.170467	-
Peak	871.67 (+/- 0.539)	872.66 (+/- 0.590)	869.93 (+/- 0.544)	869.75 (+/- 0.598)	869.58 (+/- 1.162)	871.24 (+/- 0.251)
FWHM	4.65 (+/- 1.386)	4.32 (+/- 1.514)	4.50 (+/- 1.399)	5.45 (+/- 1.557)	6.11 (+/- 3.804)	4.61 (+/- 0.648)



Executed 2011-07-27 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2001	2004	2004	2002	8010
LiveTime [s]	292.83	321.825	343.85	312.817	890.647	1271.322
Gain	1.016281	1.040674	1.028165	0.993653	1.18028	-
Peak	871.40 (+/- 0.648)	872.00 (+/- 0.559)	872.09 (+/- 0.566)	871.60 (+/- 0.698)	867.77 (+/- 1.469)	871.88 (+/- 0.383)
FWHM	4.89 (+/- 1.729)	4.53 (+/- 1.433)	4.68 (+/- 1.393)	5.25 (+/- 1.852)	6.97 (+/- 4.790)	4.70 (+/- 0.977)

Executed 2011-07-27 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2004	2001	2001	2003	8007
LiveTime [s]	286.833	316.84	331.861	304.83	903.687	1240.363
Gain	1.008004	1.02901	1.023402	0.984601	1.179214	-
Peak	873.05 (+/- 0.617)	870.38 (+/- 0.565)	871.55 (+/- 0.651)	872.08 (+/- 0.774)	870.07 (+/- 1.347)	871.73 (+/- 0.329)
FWHM	4.93 (+/- 1.607)	4.61 (+/- 1.513)	4.54 (+/- 1.761)	5.47 (+/- 2.099)	6.60 (+/- 4.212)	4.75 (+/- 0.861)

Executed 2011-07-28 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2002	2004	2001	2004	8009
LiveTime [s]	310.827	357.813	350.852	321.81	643.756	1341.301
Gain	1.008907	1.030296	1.024132	0.985811	1.179663	-
Peak	870.86 (+/- 0.531)	871.90 (+/- 0.626)	871.42 (+/- 0.574)	870.28 (+/- 0.639)	865.72 (+/- 1.117)	871.33 (+/- 0.273)
FWHM	4.51 (+/- 1.373)	4.72 (+/- 1.629)	4.41 (+/- 1.573)	5.52 (+/- 1.715)	7.39 (+/- 3.291)	4.59 (+/- 0.704)

Executed 2011-07-29 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2006	2002	2001	2002	2003	8011
LiveTime [s]	299.819	337.811	350.844	329.796	931.625	1318.271
Gain	1.014727	1.035878	1.024239	0.989227	1.193562	-
Peak	873.06 (+/- 0.640)	871.37 (+/- 0.484)	870.09 (+/- 0.662)	869.43 (+/- 0.794)	869.04 (+/- 1.288)	871.44 (+/- 0.316)
FWHM	4.81 (+/-)	4.18 (+/-)	4.23 (+/-)	5.77 (+/-)	6.77 (+/-)	4.65 (+/-)

	1.696)	1.236)	1.801)	2.055)	4.148)	0.843)
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Executed 2011-07-29 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2007	2001	2003	2001	8016
LiveTime [s]	304.838	334.826	317.874	317.824	930.671	1275.362
Gain	1.010291	1.030113	1.024147	0.986586	1.187644	-
Peak	872.19 (+/- 0.745)	872.05 (+/- 0.533)	869.00 (+/- 0.638)	872.03 (+/- 0.583)	867.81 (+/- 1.055)	871.41 (+/- 0.351)
FWHM	4.37 (+/- 2.028)	4.34 (+/- 1.418)	4.43 (+/- 1.668)	4.52 (+/- 1.643)	5.90 (+/- 3.265)	4.32 (+/- 0.925)

Executed 2011-07-30 RSI System Test Report RSX-5 SN5516\_1\_hv.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2002	2002	2002	2002	8007
LiveTime [s]	305.84	337.831	350.862	327.827	905.692	1322.36
Gain	0.976796	0.997425	0.986988	0.949798	1.073562	-
Peak	871.99 (+/- 0.556)	869.42 (+/- 0.537)	870.06 (+/- 0.636)	869.01 (+/- 0.608)	867.58 (+/- 1.318)	870.14 (+/- 0.320)
FWHM	4.83 (+/- 1.479)	4.54 (+/- 1.395)	4.46 (+/- 1.661)	4.78 (+/- 1.642)	6.56 (+/- 4.449)	4.58 (+/- 0.830)

Executed 2011-07-30 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2006	2004	2003	2004	2001	8017
LiveTime [s]	311.818	333.822	342.85	312.817	962.623	1301.307
Gain	1.013069	1.03525	1.023134	0.988273	1.114414	-
Peak	872.21 (+/- 0.694)	871.56 (+/- 0.596)	871.31 (+/- 0.790)	871.88 (+/- 0.707)	866.94 (+/- 1.705)	871.97 (+/- 0.325)
FWHM	4.95 (+/- 1.905)	4.22 (+/- 1.565)	4.95 (+/- 2.414)	4.82 (+/- 1.909)	6.86 (+/- 6.013)	4.57 (+/- 0.842)

Executed 2011-07-30 RSI System Test Report RSX-5 SN5516\_5.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2009	2001	2002	2001	2001	8013
LiveTime [s]	300.836	330.827	345.861	320.823	918.686	1298.347
Gain	1.009643	1.030276	1.025629	0.985323	1.11589	-
Peak	871.21 (+/-)	871.40 (+/-)	869.52 (+/-)	870.85 (+/-)	862.66 (+/-)	871.11 (+/-)

	0.499)	0.570)	0.483)	0.654)	1.461)	0.263)
FWHM	4.34 (+/- 1.302)	4.63 (+/- 1.473)	3.94 (+/- 1.296)	5.56 (+/- 1.825)	3.76 (+/- 5.038)	4.48 (+/- 0.686)

Executed 2011-07-31 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2002	2002	2005	2001	8014
LiveTime [s]	300.829	347.824	342.859	309.83	925.658	1301.343
Gain	0.972279	0.992606	0.982547	0.945867	1.077268	-
Peak	871.57 (+/- 0.594)	871.00 (+/- 0.532)	868.85 (+/- 0.749)	868.54 (+/- 0.590)	866.62 (+/- 1.648)	870.26 (+/- 0.309)
FWHM	4.45 (+/- 1.549)	4.61 (+/- 1.373)	4.80 (+/- 2.106)	4.75 (+/- 1.609)	7.15 (+/- 5.409)	4.58 (+/- 0.796)

Executed 2011-07-31 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2007	2003	2002	2006	2003	8018
LiveTime [s]	303.839	326.835	330.864	314.834	822.711	1276.372
Gain	1.006832	1.027008	1.025943	0.982138	1.123265	-
Peak	872.51 (+/- 0.738)	872.32 (+/- 0.570)	871.02 (+/- 0.627)	868.89 (+/- 0.777)	868.56 (+/- 1.245)	871.13 (+/- 0.289)
FWHM	5.27 (+/- 1.959)	4.13 (+/- 1.489)	4.91 (+/- 1.653)	5.20 (+/- 2.230)	6.45 (+/- 3.826)	4.71 (+/- 0.742)

Executed 2011-08-02 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2009	2005	2005	2003	2002	8022
LiveTime [s]	300.836	331.82	329.863	316.824	843.658	1279.343
Gain	0.988154	1.011364	0.995984	0.958364	1.108235	-
Peak	870.49 (+/- 0.689)	871.36 (+/- 0.547)	869.93 (+/- 0.620)	867.80 (+/- 0.760)	868.23 (+/- 1.303)	870.21 (+/- 0.296)
FWHM	5.10 (+/- 1.837)	4.37 (+/- 1.426)	4.64 (+/- 1.665)	5.19 (+/- 2.085)	7.93 (+/- 4.180)	4.68 (+/- 0.765)

Executed 2011-08-02 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2005	2003	2008	2001	8018
LiveTime [s]	286.839	327.83	329.863	315.825	914.68	1260.357

Gain	1.025892	1.050378	1.04034	0.998558	1.158744	-
Peak	870.81 (+/- 0.553)	870.22 (+/- 0.606)	870.68 (+/- 0.562)	869.61 (+/- 0.808)	869.21 (+/- 1.692)	870.19 (+/- 0.310)
FWHM	4.51 (+/- 1.342)	4.58 (+/- 1.691)	4.48 (+/- 1.465)	5.43 (+/- 2.151)	7.70 (+/- 5.271)	4.58 (+/- 0.803)

Executed 2011-08-02 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2004	2007	2001	2007	2002	8019
LiveTime [s]	301.837	321.841	340.863	310.845	904.689	1275.386
Gain	1.01793	1.039897	1.037715	0.992264	1.146577	-
Peak	871.71 (+/- 0.500)	872.07 (+/- 0.570)	870.29 (+/- 0.650)	870.21 (+/- 0.698)	871.15 (+/- 1.251)	871.22 (+/- 0.330)
FWHM	4.43 (+/- 1.229)	4.48 (+/- 1.487)	4.61 (+/- 1.688)	5.76 (+/- 1.981)	6.08 (+/- 3.728)	4.74 (+/- 0.827)

Executed 2011-08-03 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2004	2004	2006	2007	2007	8021
LiveTime [s]	312.835	328.841	334.871	306.838	932.678	1283.385
Gain	0.970466	0.989333	0.981146	0.943493	1.094734	-
Peak	870.26 (+/- 0.631)	869.79 (+/- 0.601)	870.57 (+/- 0.692)	871.01 (+/- 0.716)	870.66 (+/- 1.573)	870.47 (+/- 0.285)
FWHM	4.93 (+/- 1.624)	4.48 (+/- 1.546)	4.59 (+/- 1.860)	5.31 (+/- 1.932)	7.01 (+/- 5.166)	4.60 (+/- 0.718)

Executed 2011-08-03 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2001	2001	2004	2002	8011
LiveTime [s]	294.843	334.828	336.867	325.825	879.699	1292.362
Gain	1.011275	1.034576	1.027046	0.986617	1.146379	-
Peak	872.20 (+/- 0.616)	873.15 (+/- 0.529)	870.77 (+/- 0.582)	871.12 (+/- 0.679)	869.01 (+/- 1.871)	871.82 (+/- 0.310)
FWHM	4.94 (+/- 1.673)	4.38 (+/- 1.389)	4.79 (+/- 1.477)	5.58 (+/- 1.804)	6.33 (+/- 6.896)	4.77 (+/- 0.818)

Executed 2011-08-03 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2007	2007	2002	2001	8017

LiveTime [s]	298.85	318.834	341.864	324.831	883.704	1284.379
Gain	1.011177	1.032141	1.029539	0.986887	1.141523	-
Peak	871.89 (+/- 0.505)	870.89 (+/- 0.557)	870.82 (+/- 0.524)	870.72 (+/- 0.752)	869.65 (+/- 1.624)	871.16 (+/- 0.276)
FWHM	4.45 (+/- 1.319)	4.66 (+/- 1.513)	4.83 (+/- 1.355)	5.23 (+/- 2.039)	6.28 (+/- 5.748)	4.70 (+/- 0.713)

Executed 2011-08-03 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2006	2001	2005	2011	2001	8023
LiveTime [s]	286.85	328.839	322.872	302.847	886.698	1241.408
Gain	1.007068	1.025679	1.027676	0.983575	1.142869	-
Peak	872.46 (+/- 0.536)	872.28 (+/- 0.506)	871.55 (+/- 0.772)	871.43 (+/- 0.693)	863.78 (+/- 1.400)	871.96 (+/- 0.360)
FWHM	4.76 (+/- 1.337)	4.40 (+/- 1.307)	4.68 (+/- 1.961)	5.32 (+/- 1.877)	5.80 (+/- 4.705)	4.66 (+/- 0.913)

Executed 2011-08-04 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2008	2002	2004	2008	2001	8022
LiveTime [s]	301.836	329.838	340.872	306.836	892.681	1279.384
Gain	0.965538	0.98505	0.977893	0.939206	1.097966	-
Peak	869.40 (+/- 0.607)	869.52 (+/- 0.538)	869.23 (+/- 0.537)	869.44 (+/- 0.918)	865.51 (+/- 1.312)	869.40 (+/- 0.306)
FWHM	4.55 (+/- 1.741)	4.59 (+/- 1.396)	4.24 (+/- 1.387)	5.43 (+/- 2.557)	6.36 (+/- 4.323)	4.49 (+/- 0.798)

Executed 2011-08-04 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2005	2008	2008	2001	8026
LiveTime [s]	286.848	308.84	329.867	306.829	861.691	1232.384
Gain	1.009108	1.030825	1.025351	0.985181	1.154215	-
Peak	871.42 (+/- 0.628)	872.50 (+/- 0.668)	870.26 (+/- 0.604)	870.53 (+/- 0.747)	867.13 (+/- 1.588)	871.10 (+/- 0.312)
FWHM	4.38 (+/- 1.720)	4.57 (+/- 1.741)	4.62 (+/- 1.637)	5.55 (+/- 2.041)	7.20 (+/- 5.465)	4.59 (+/- 0.822)

Executed 2011-08-04 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
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Status	Done	Done	Done	Done	Done	Done
Counts	2005	2004	2004	2008	2001	8021
LiveTime [s]	277.857	331.83	338.872	299.845	873.707	1248.403
Gain	1.005022	1.02797	1.023526	0.979746	1.150201	-
Peak	871.92 (+/- 0.715)	872.31 (+/- 0.648)	870.69 (+/- 0.511)	869.45 (+/- 0.736)	871.50 (+/- 1.365)	871.41 (+/- 0.308)
FWHM	5.10 (+/- 1.996)	4.52 (+/- 1.698)	4.85 (+/- 1.379)	5.51 (+/- 2.134)	5.85 (+/- 4.701)	4.82 (+/- 0.809)

Executed 2011-08-05 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2003	2001	2005	2002	2001	8011
LiveTime [s]	305.836	313.837	322.87	296.84	881.667	1239.384
Gain	0.96745	0.988824	0.980549	0.939629	1.100578	-
Peak	869.95 (+/- 0.700)	872.04 (+/- 0.615)	870.35 (+/- 0.588)	867.43 (+/- 0.681)	868.52 (+/- 1.213)	870.24 (+/- 0.330)
FWHM	4.78 (+/- 2.022)	4.85 (+/- 1.627)	4.18 (+/- 1.559)	4.94 (+/- 1.875)	6.49 (+/- 3.769)	4.46 (+/- 0.859)

Executed 2011-08-05 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2008	2002	2002	2004	2003	8016
LiveTime [s]	293.831	322.828	336.863	314.822	865.677	1268.345
Gain	1.009655	1.03171	1.022791	0.986247	1.152698	-
Peak	872.45 (+/- 0.590)	871.87 (+/- 0.600)	869.63 (+/- 0.637)	870.01 (+/- 0.693)	870.13 (+/- 1.236)	870.94 (+/- 0.292)
FWHM	4.56 (+/- 1.593)	4.01 (+/- 1.584)	4.41 (+/- 1.672)	5.45 (+/- 1.790)	6.29 (+/- 3.870)	4.36 (+/- 0.779)

Executed 2011-08-05 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2009	2009	2005	2006	2002	8029
LiveTime [s]	278.85	320.843	335.865	306.837	829.707	1242.396
Gain	1.012647	1.034272	1.026602	0.989657	1.159073	-
Peak	871.67 (+/- 0.720)	871.47 (+/- 0.529)	869.44 (+/- 0.635)	869.82 (+/- 0.761)	870.06 (+/- 1.361)	870.69 (+/- 0.325)
FWHM	5.02 (+/- 1.942)	4.43 (+/- 1.341)	4.82 (+/- 1.752)	5.27 (+/- 2.135)	5.81 (+/- 4.691)	4.70 (+/- 0.869)

Executed 2011-08-08 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2007	2005	2007	2005	2001	8024
LiveTime [s]	316.831	339.829	350.862	324.819	915.668	1332.341
Gain	0.97584	0.998563	0.988718	0.948087	1.131321	-
Peak	872.44 (+/- 0.535)	871.55 (+/- 0.557)	869.92 (+/- 0.638)	870.70 (+/- 0.705)	872.16 (+/- 1.351)	871.23 (+/- 0.283)
FWHM	4.75 (+/- 1.396)	4.43 (+/- 1.439)	4.36 (+/- 1.719)	4.82 (+/- 1.844)	6.57 (+/- 4.047)	4.50 (+/- 0.729)

Executed 2011-08-08 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2003	2004	2005	2005	2001	8017
LiveTime [s]	306.842	322.837	335.873	325.816	902.7	1291.367
Gain	1.015332	1.041354	1.03032	0.990606	1.174643	-
Peak	870.45 (+/- 0.593)	871.38 (+/- 0.616)	870.10 (+/- 0.490)	870.89 (+/- 0.699)	867.30 (+/- 1.554)	870.73 (+/- 0.324)
FWHM	4.58 (+/- 1.522)	4.48 (+/- 1.638)	4.31 (+/- 1.305)	5.56 (+/- 1.837)	7.09 (+/- 4.571)	4.50 (+/- 0.855)

Executed 2011-08-08 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2003	2008	2005	2002	2003	8018
LiveTime [s]	289.852	320.836	345.866	307.836	907.695	1264.39
Gain	1.013449	1.037919	1.028173	0.986969	1.176247	-
Peak	872.34 (+/- 0.589)	872.05 (+/- 0.665)	870.84 (+/- 0.629)	869.52 (+/- 0.532)	868.74 (+/- 1.315)	871.60 (+/- 0.309)
FWHM	4.64 (+/- 1.506)	4.59 (+/- 1.786)	4.80 (+/- 1.630)	4.87 (+/- 1.437)	6.89 (+/- 4.295)	4.65 (+/- 0.784)

Executed 2911-08-09 RSI System Test Report RSX-5 SN5516\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2003	2004	2002	2001	2003	8010
LiveTime [s]	313.818	321.829	356.854	320.817	907.649	1313.317
Gain	1.030913	1.060099	1.039492	1.007112	1.191136	-
Peak	871.04 (+/- 0.539)	871.87 (+/- 0.624)	870.06 (+/- 0.673)	869.33 (+/- 0.788)	873.49 (+/- 1.412)	870.62 (+/- 0.331)
FWHM	4.96 (+/- 1.411)	4.46 (+/- 1.698)	4.68 (+/- 1.751)	5.82 (+/- 2.137)	6.79 (+/- 4.341)	4.83 (+/- 0.842)

Executed 2911-08-09 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2004	2002	2006	2002	2004	8014
LiveTime [s]	287.837	342.827	338.862	308.826	923.645	1278.351
Gain	1.031355	1.060853	1.041002	1.007246	1.196456	-
Peak	871.54 (+/- 0.607)	872.16 (+/- 0.507)	869.78 (+/- 0.633)	870.03 (+/- 0.676)	867.76 (+/- 1.443)	870.84 (+/- 0.293)
FWHM	4.53 (+/- 1.587)	4.64 (+/- 1.330)	4.68 (+/- 1.657)	5.51 (+/- 1.860)	7.16 (+/- 4.310)	4.68 (+/- 0.752)

Executed 2911-08-09 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2004	2008	2006	2002	8023
LiveTime [s]	288.853	325.831	325.867	308.832	854.698	1249.383
Gain	1.026906	1.054736	1.040947	1.003394	1.191643	-
Peak	872.19 (+/- 0.637)	871.29 (+/- 0.590)	871.56 (+/- 0.598)	869.10 (+/- 0.759)	867.64 (+/- 1.209)	871.22 (+/- 0.330)
FWHM	4.76 (+/- 1.654)	4.28 (+/- 1.517)	5.19 (+/- 1.639)	6.06 (+/- 2.216)	5.68 (+/- 3.683)	4.80 (+/- 0.846)

Executed 2011-08-10 RSI System Test Report RSX-5 SN5516\_hv\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2014	2005	2007	2002	2002	8028
LiveTime [s]	292.842	340.831	341.857	307.83	759.715	1283.361
Gain	0.999333	1.02711	1.006452	0.973623	1.084591	-
Peak	870.97 (+/- 0.634)	870.27 (+/- 0.679)	870.15 (+/- 0.602)	869.98 (+/- 0.619)	868.26 (+/- 2.091)	870.57 (+/- 0.325)
FWHM	5.28 (+/- 1.649)	4.63 (+/- 1.790)	4.85 (+/- 1.572)	5.12 (+/- 1.612)	6.61 (+/- 7.571)	4.93 (+/- 0.850)

Executed 2011-08-10 RSI System Test Report RSX-5 SN5516\_hv\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2009	2001	2004	2001	2002	8015
LiveTime [s]	288.836	334.831	339.866	305.83	882.685	1269.362
Gain	1.003336	1.031741	1.009223	0.977768	1.088927	-
Peak	871.21 (+/- 0.692)	871.31 (+/- 0.500)	870.41 (+/- 0.497)	871.28 (+/- 0.707)	864.80 (+/- 1.134)	871.00 (+/- 0.289)
FWHM	4.98 (+/- 1.805)	4.54 (+/- 1.333)	4.09 (+/- 1.306)	5.17 (+/- 1.879)	6.51 (+/- 3.433)	4.59 (+/- 0.736)



Executed 2011-08-11 RSI System Test Report RSX-5 SN5516\_1.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2005	2003	2004	2003	8017
LiveTime [s]	298.834	331.825	343.858	320.83	877.683	1295.347
Gain	0.987525	1.014368	0.99865	0.961795	1.080512	-
Peak	871.88 (+/- 0.498)	870.84 (+/- 0.509)	869.73 (+/- 0.553)	870.02 (+/- 0.803)	858.63 (+/- 1.377)	870.79 (+/- 0.315)
FWHM	4.60 (+/- 1.315)	4.07 (+/- 1.339)	4.08 (+/- 1.445)	5.14 (+/- 2.263)	4.07 (+/- 4.091)	4.29 (+/- 0.834)

Executed 2011-08-11 RSI System Test Report RSX-5 SN5516\_3.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2002	2008	2004	2004	2004	8018
LiveTime [s]	279.852	330.824	340.853	309.837	877.694	1261.366
Gain	1.02648	1.05492	1.041426	1.001711	1.124676	-
Peak	872.64 (+/- 0.599)	870.46 (+/- 0.590)	871.22 (+/- 0.470)	870.41 (+/- 0.835)	870.19 (+/- 1.252)	871.37 (+/- 0.320)
FWHM	4.49 (+/- 1.528)	4.74 (+/- 1.570)	4.32 (+/- 1.211)	5.81 (+/- 2.344)	7.35 (+/- 3.618)	4.72 (+/- 0.811)

Executed 2011-08-11 RSI System Test Report RSX-5 SN5516\_4.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2001	2003	2004	2002	8009
LiveTime [s]	309.84	342.829	335.865	312.83	914.679	1301.364
Gain	1.021323	1.047279	1.039816	0.99515	1.122035	-
Peak	871.76 (+/- 0.526)	871.41 (+/- 0.522)	869.95 (+/- 0.751)	870.12 (+/- 0.667)	871.87 (+/- 1.688)	871.06 (+/- 0.288)
FWHM	4.37 (+/- 1.418)	4.33 (+/- 1.338)	4.94 (+/- 2.062)	5.62 (+/- 1.835)	6.49 (+/- 5.981)	4.72 (+/- 0.745)

Executed 2011-08-12 RSI System Test Report RSX-5 SN5516\_1\_2.csv

Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2005	2010	2011	2007	2002	8033
LiveTime [s]	293.834	333.824	330.858	299.824	911.638	1258.341
Gain	0.998538	1.026514	1.010037	0.973915	1.089252	-
Peak	872.89 (+/- 0.629)	870.67 (+/- 0.568)	870.30 (+/- 0.619)	870.34 (+/- 0.649)	865.97 (+/- 1.444)	871.47 (+/- 0.312)

FWHM	4.80 (+/- 1.732)	4.21 (+/- 1.559)	4.77 (+/- 1.643)	4.78 (+/- 1.866)	6.71 (+/- 4.919)	4.66 (+/- 0.821)
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Executed 2011-08-12 RSI System Test Report RSX-5 SN5516\_3.csv

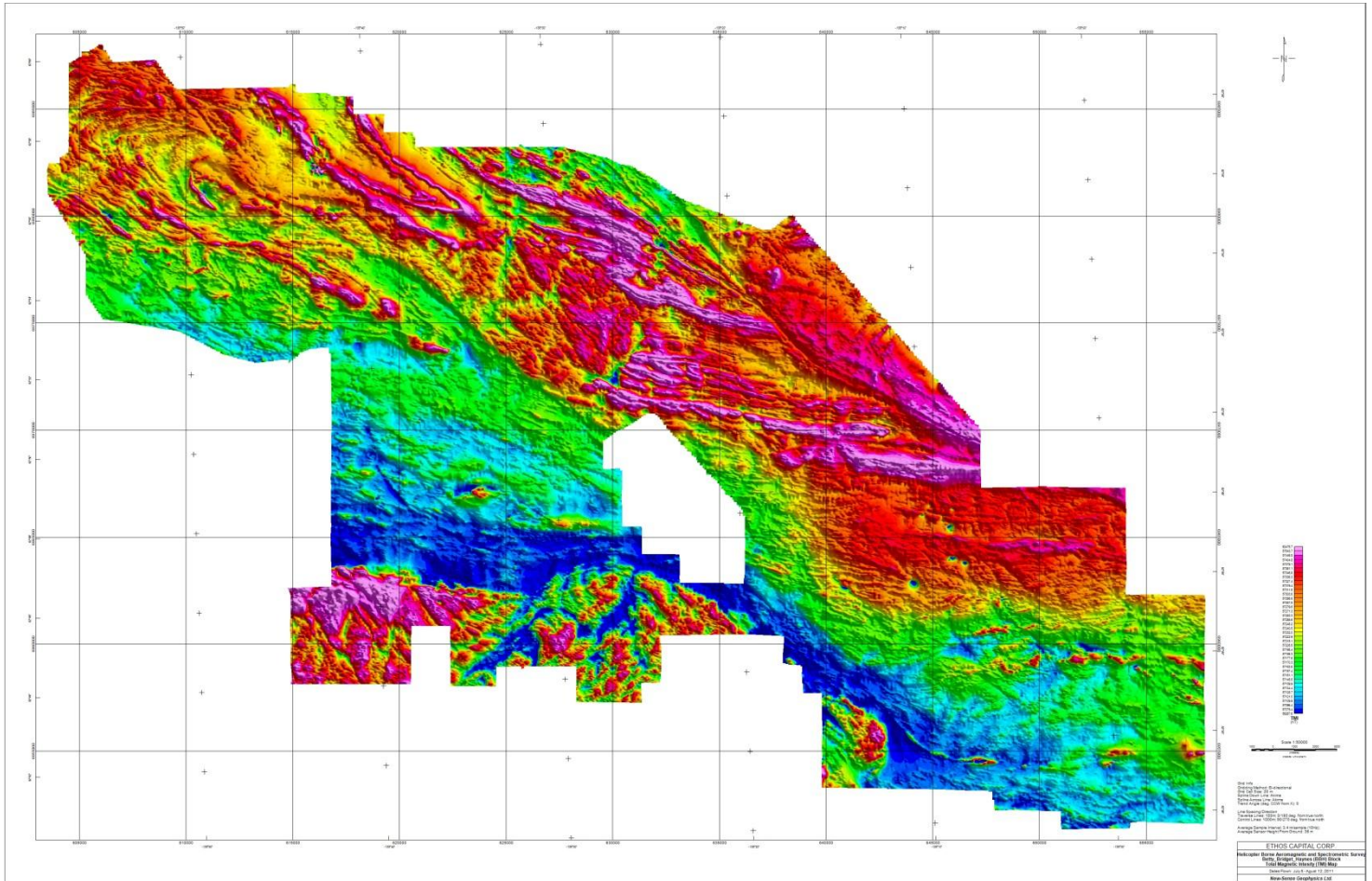
Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2001	2001	2003	2005	2001	8010
LiveTime [s]	286.827	336.814	327.854	308.814	840.674	1260.309
Gain	1.025845	1.051428	1.037651	1.00003	1.122471	-
Peak	872.86 (+/- 0.540)	871.83 (+/- 0.680)	871.36 (+/- 0.612)	868.71 (+/- 0.650)	866.80 (+/- 1.386)	871.59 (+/- 0.310)
FWHM	4.69 (+/- 1.392)	4.83 (+/- 1.810)	4.38 (+/- 1.614)	4.96 (+/- 1.849)	5.75 (+/- 4.956)	4.71 (+/- 0.795)

Executed 2011-08-12 RSI System Test Report RSX-5 SN5516\_4.csv

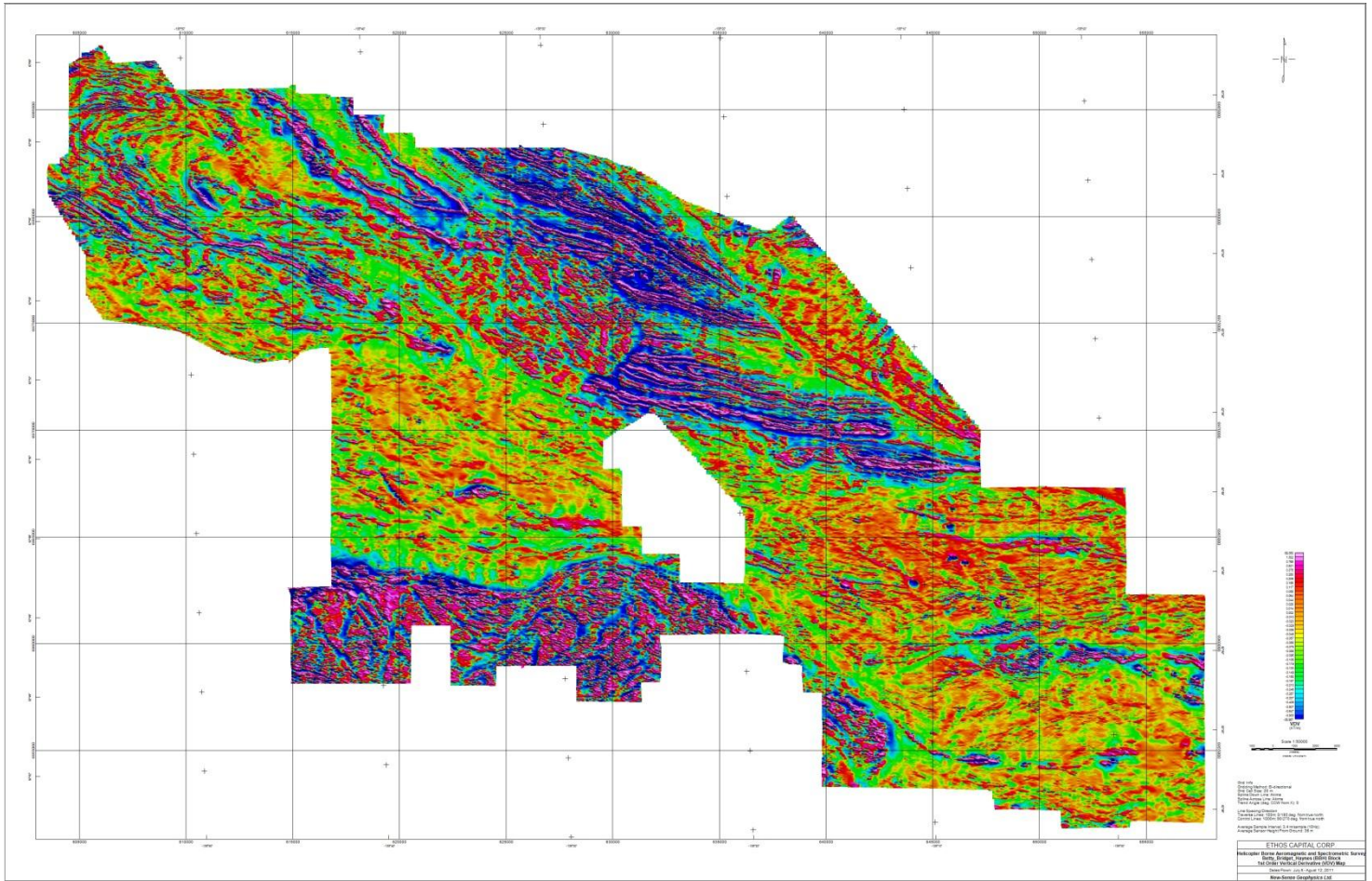
Detector	Det 1 - SN:00086	Det 2 - SN:00128	Det 3 - SN:00071	Det 4 - SN:00081	Det 5 - SN:00125	Det 1 + 2 + 3 + 4
Status	Done	Done	Done	Done	Done	Done
Counts	2004	2004	2003	2004	2004	8015
LiveTime [s]	284.846	319.844	336.867	313.822	876.689	1255.38
Gain	1.02197	1.049557	1.038898	0.996991	1.121563	-
Peak	874.08 (+/- 0.581)	871.26 (+/- 0.555)	870.94 (+/- 0.639)	871.36 (+/- 0.680)	868.58 (+/- 0.889)	872.01 (+/- 0.294)
FWHM	4.51 (+/- 1.549)	4.36 (+/- 1.515)	4.56 (+/- 1.714)	5.53 (+/- 1.764)	5.44 (+/- 2.508)	4.63 (+/- 0.752)

# APPENDIX E: IMAGES OF FINAL MAPS

## BBH Block Image of TMI FINAL Map

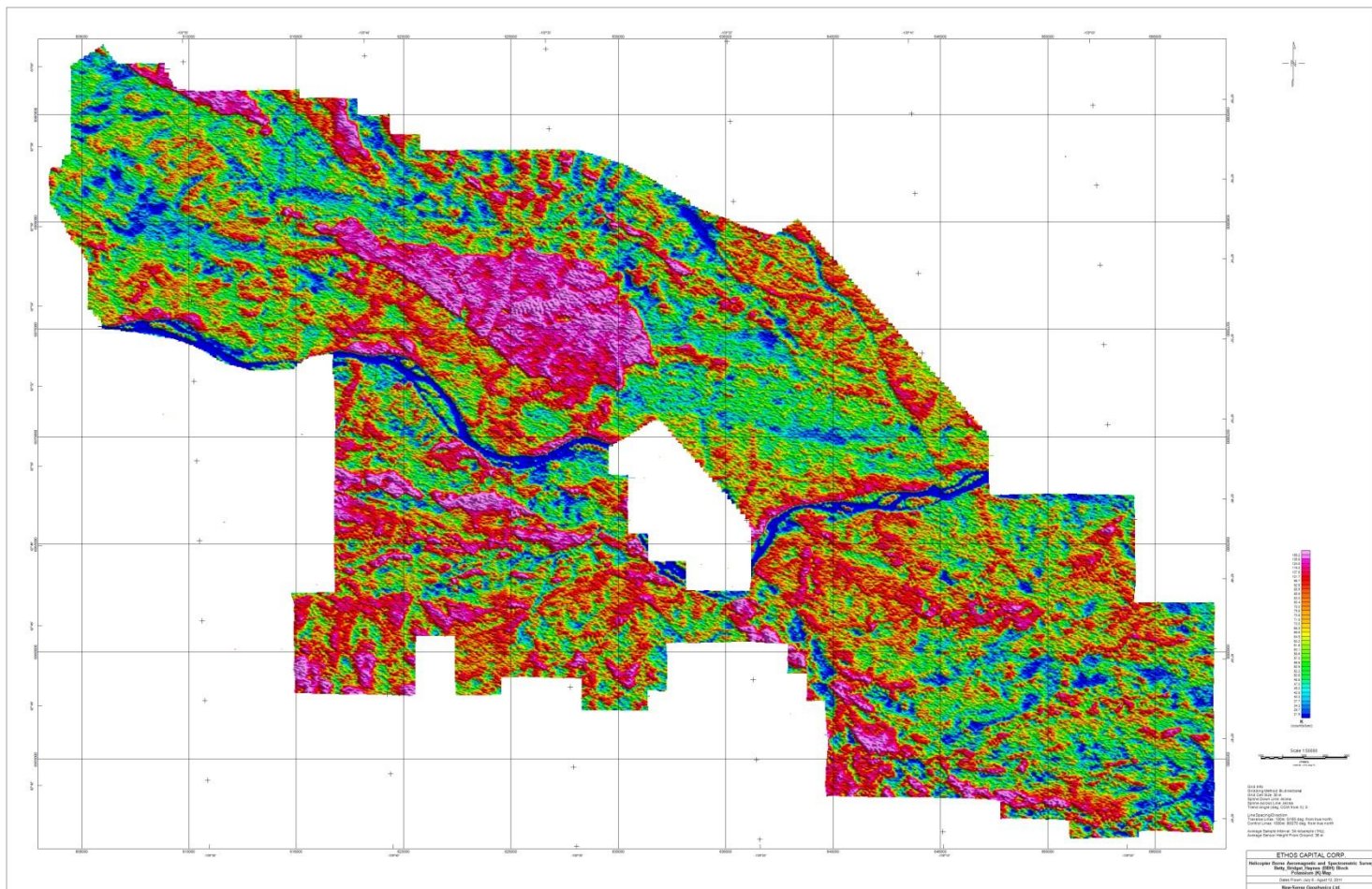


# BBH Block Image of VDV Map

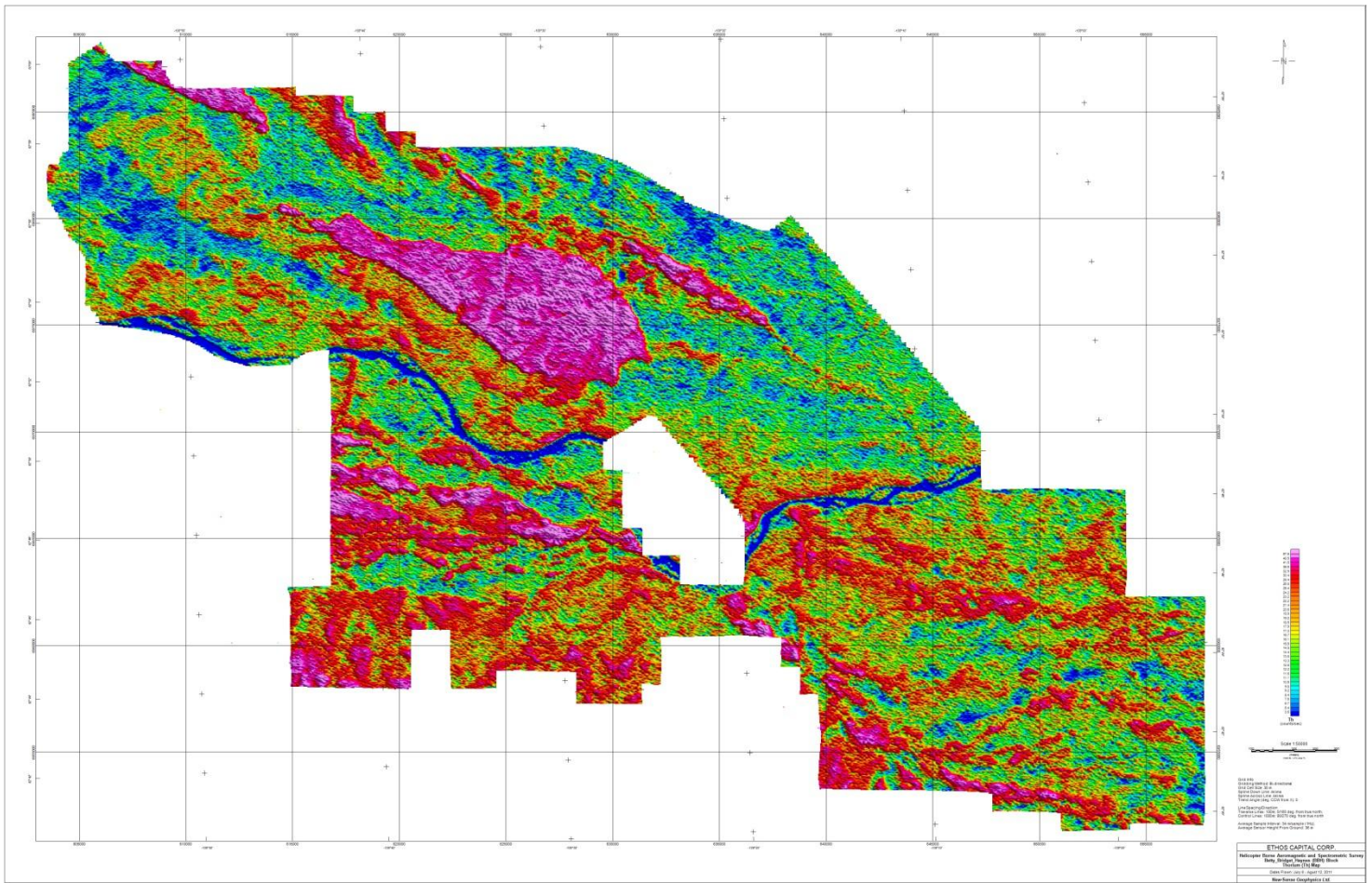




# BBH Block Image of Potassium Map

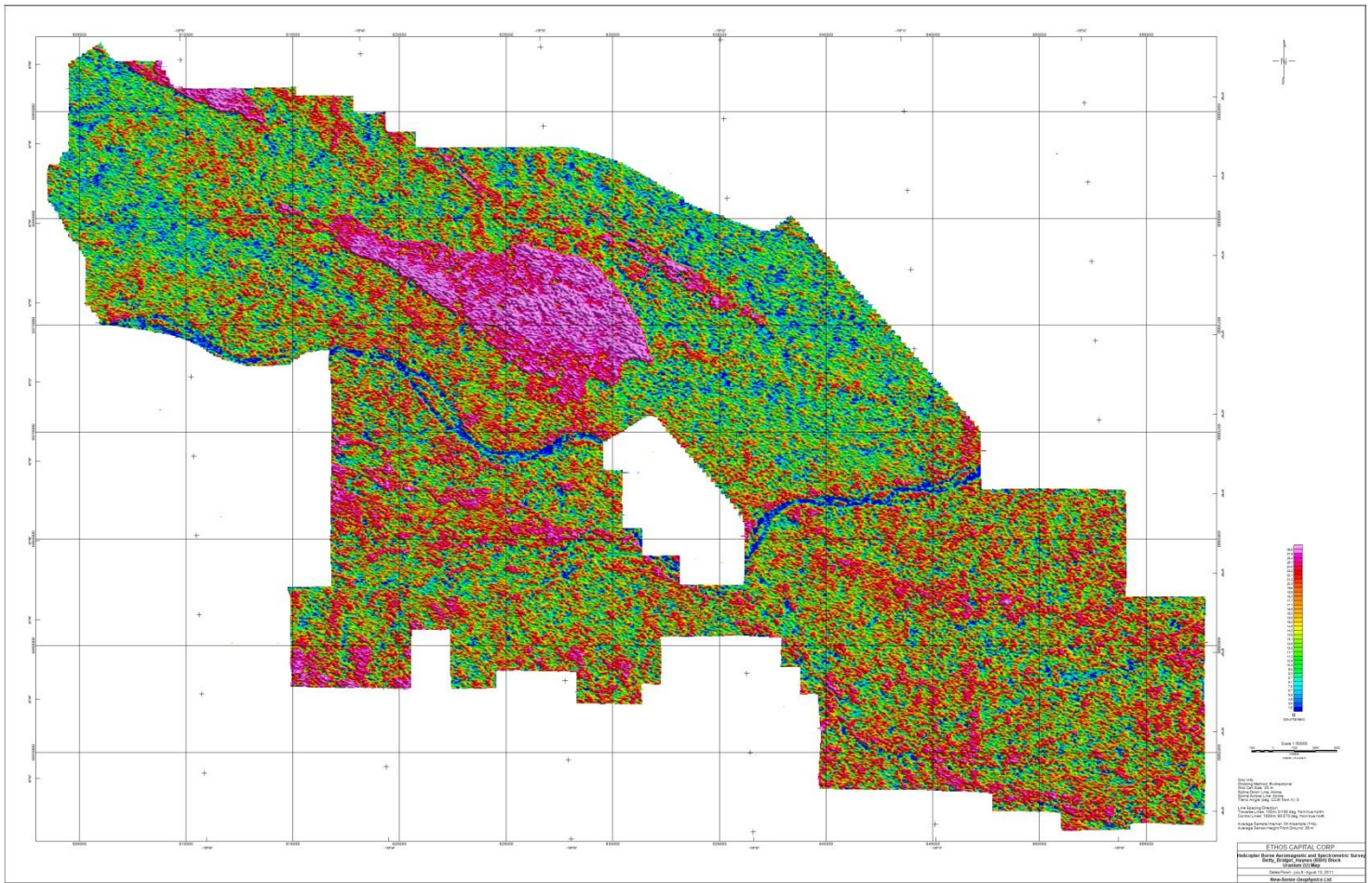


# BBH Block Image of Thorium Map





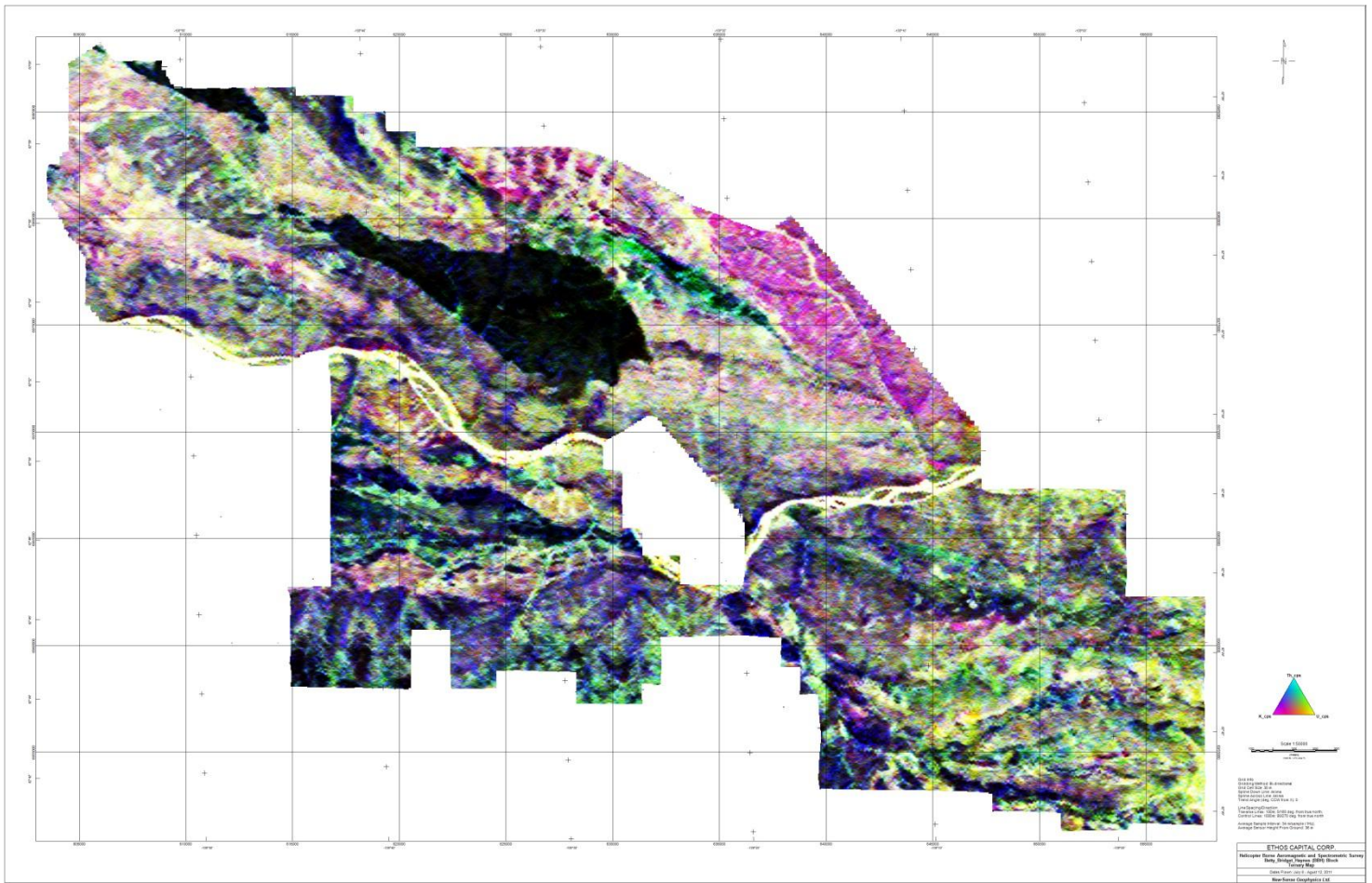
# BBH Block Image of Uranium Map



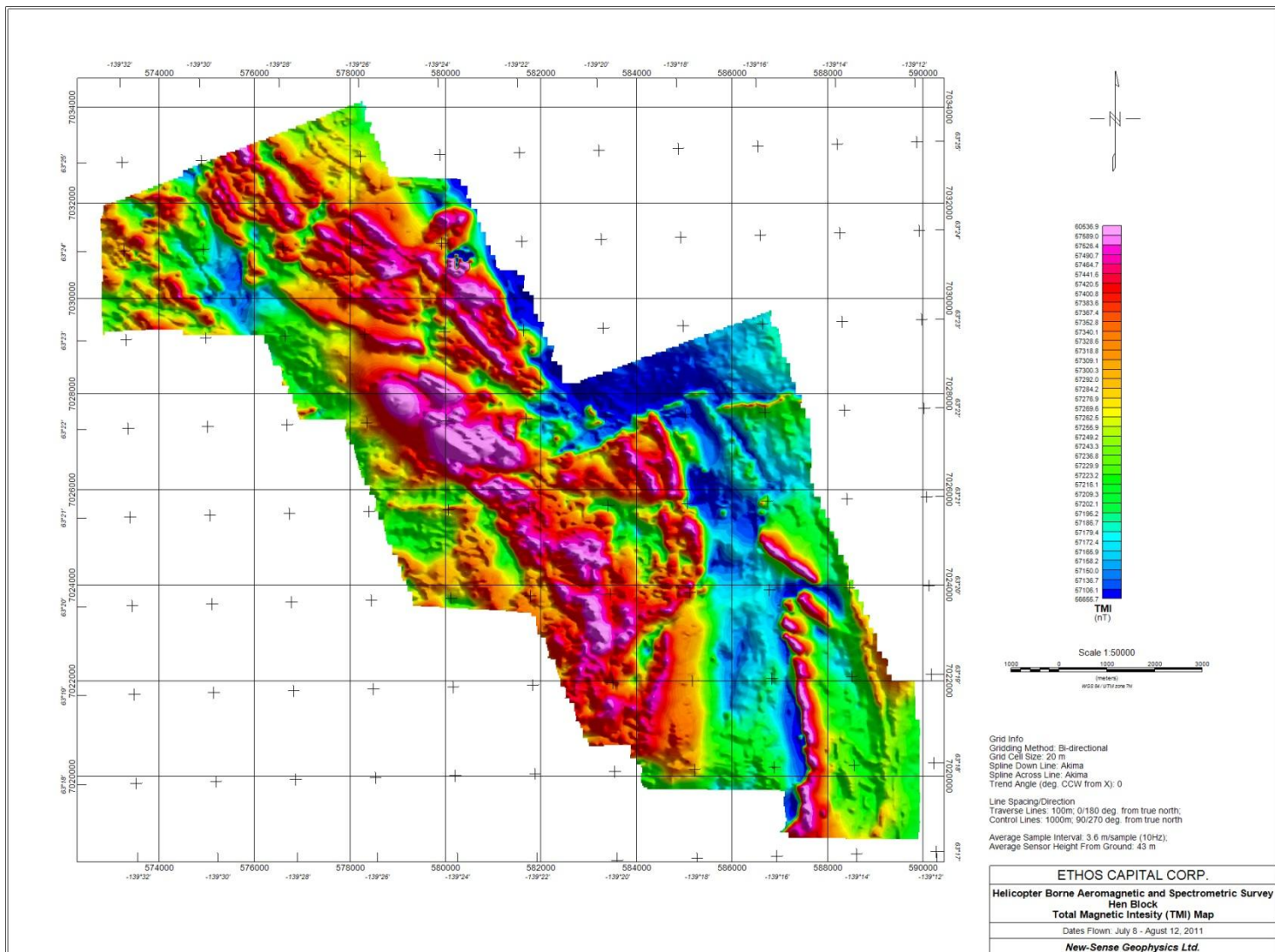




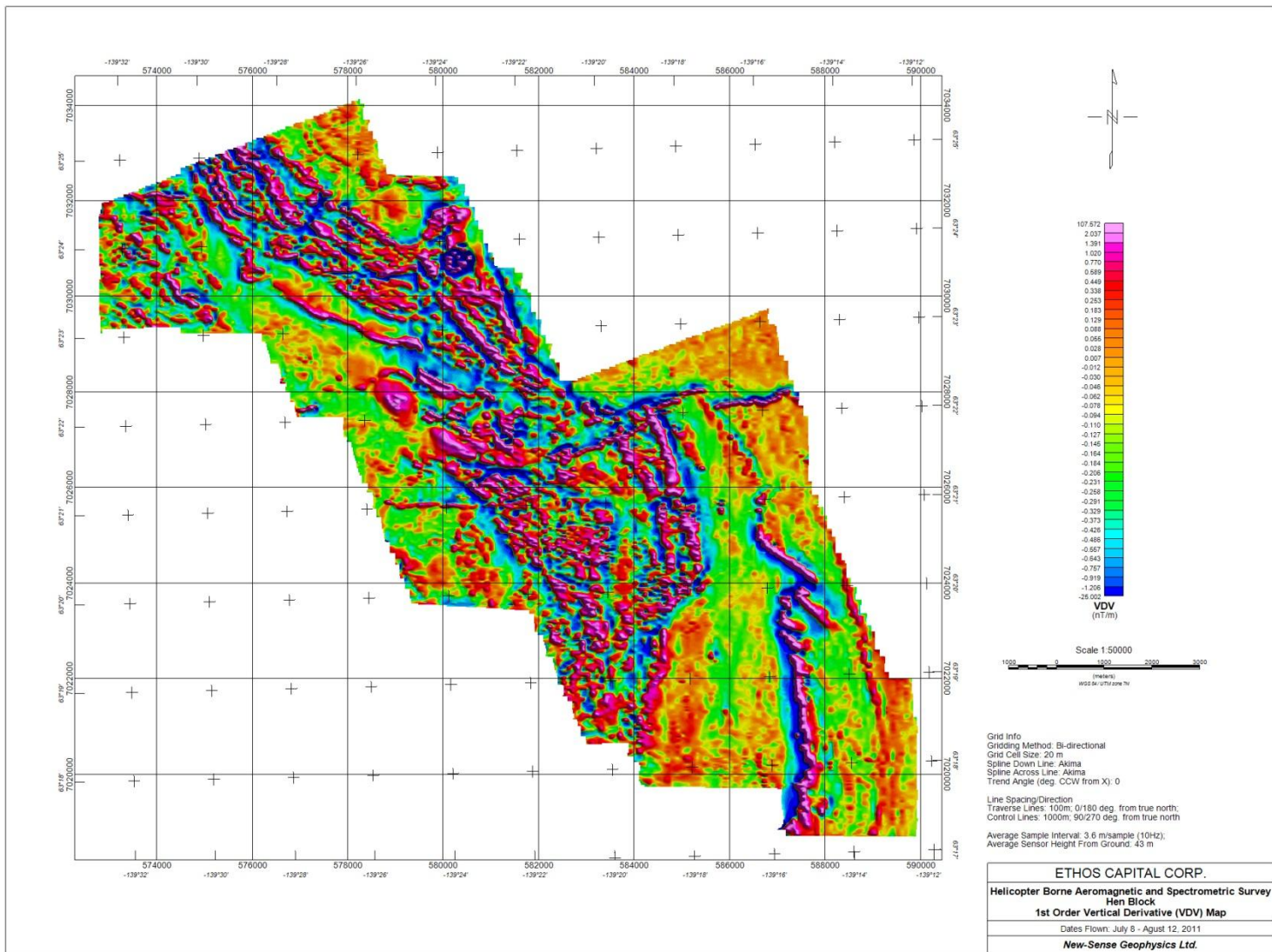
# BBH Block Image of Ternary Map



# Hen Block Image of TMI FINAL Map

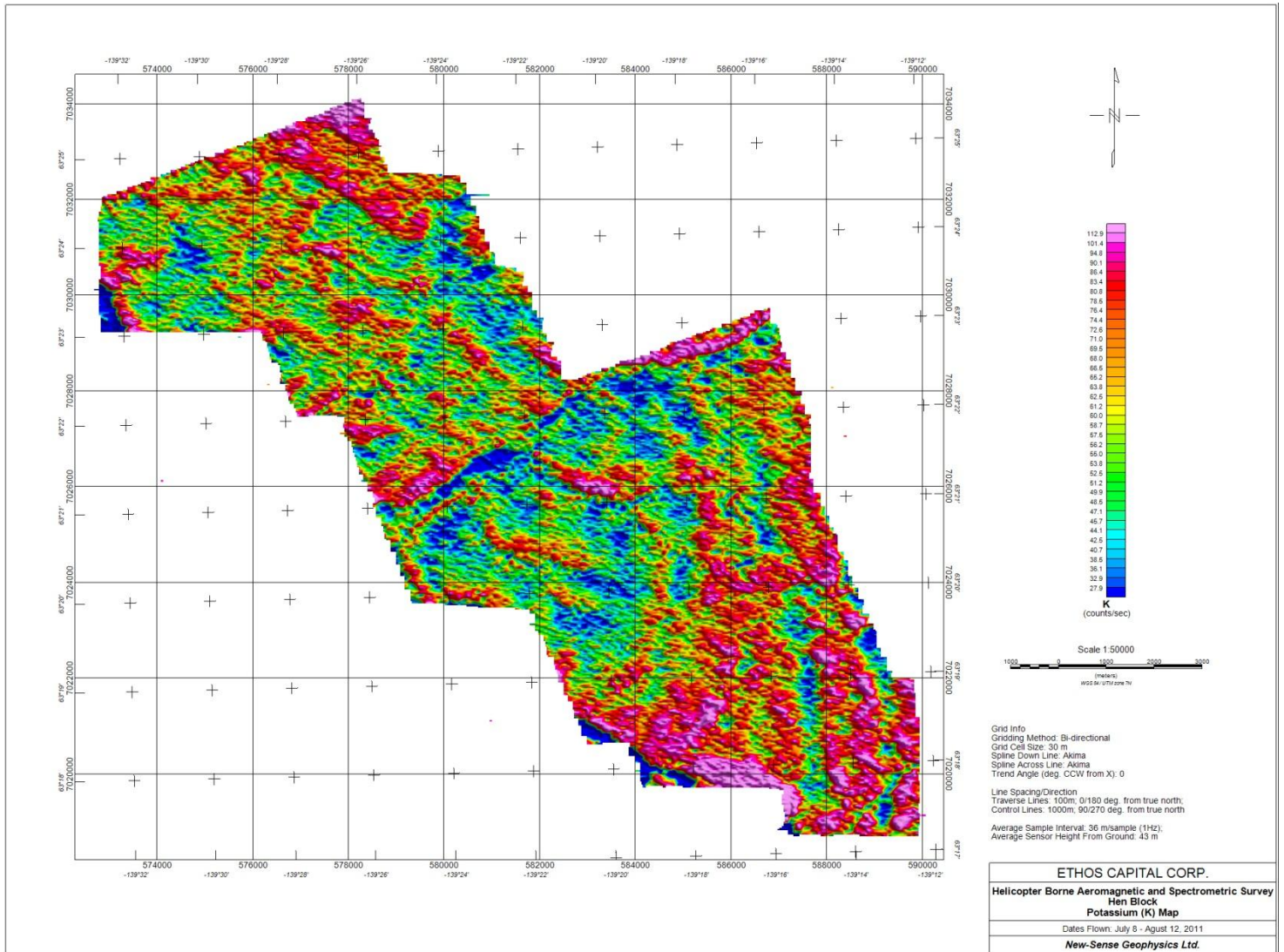


# Hen Block Image of VDV Map

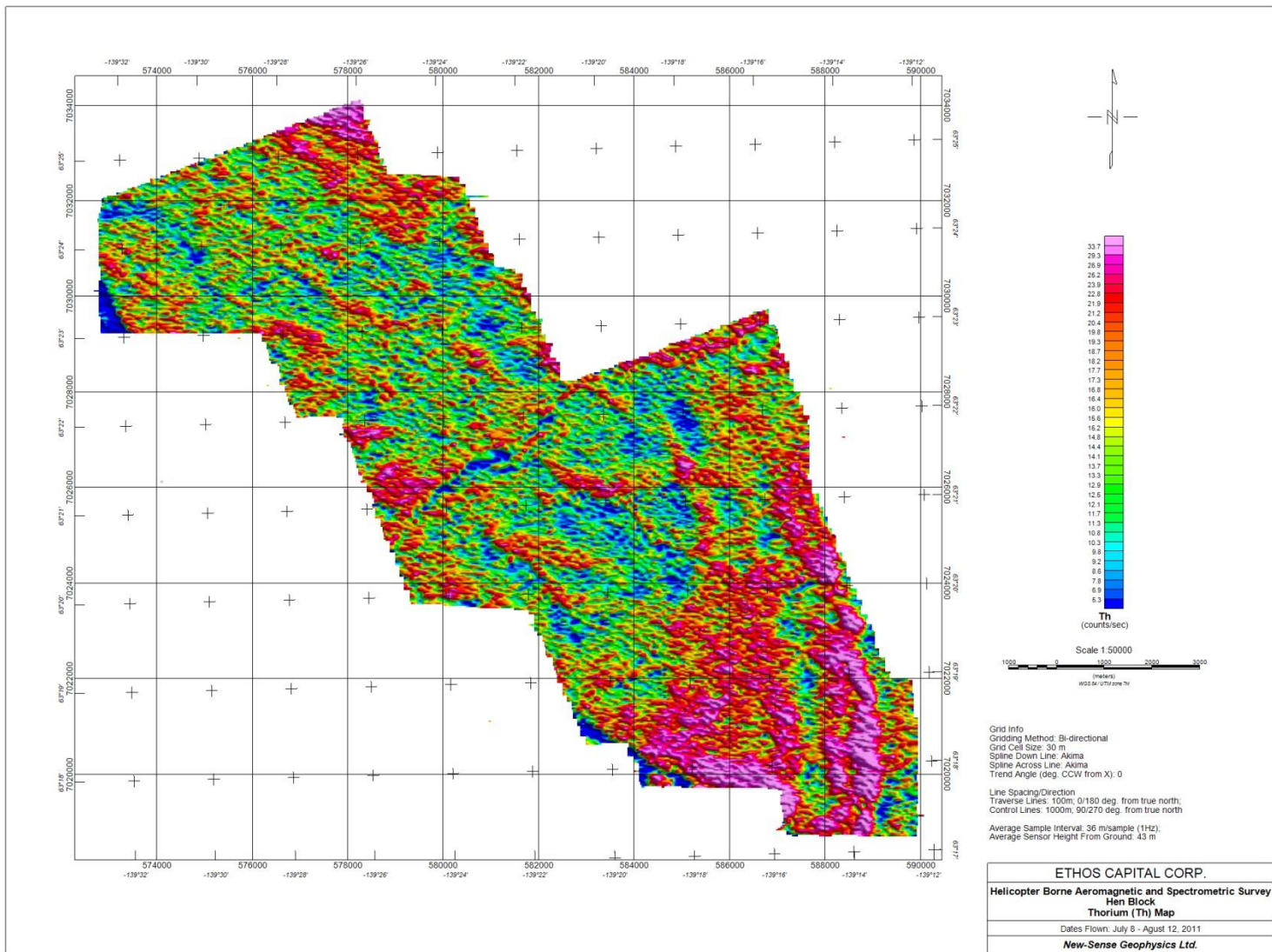




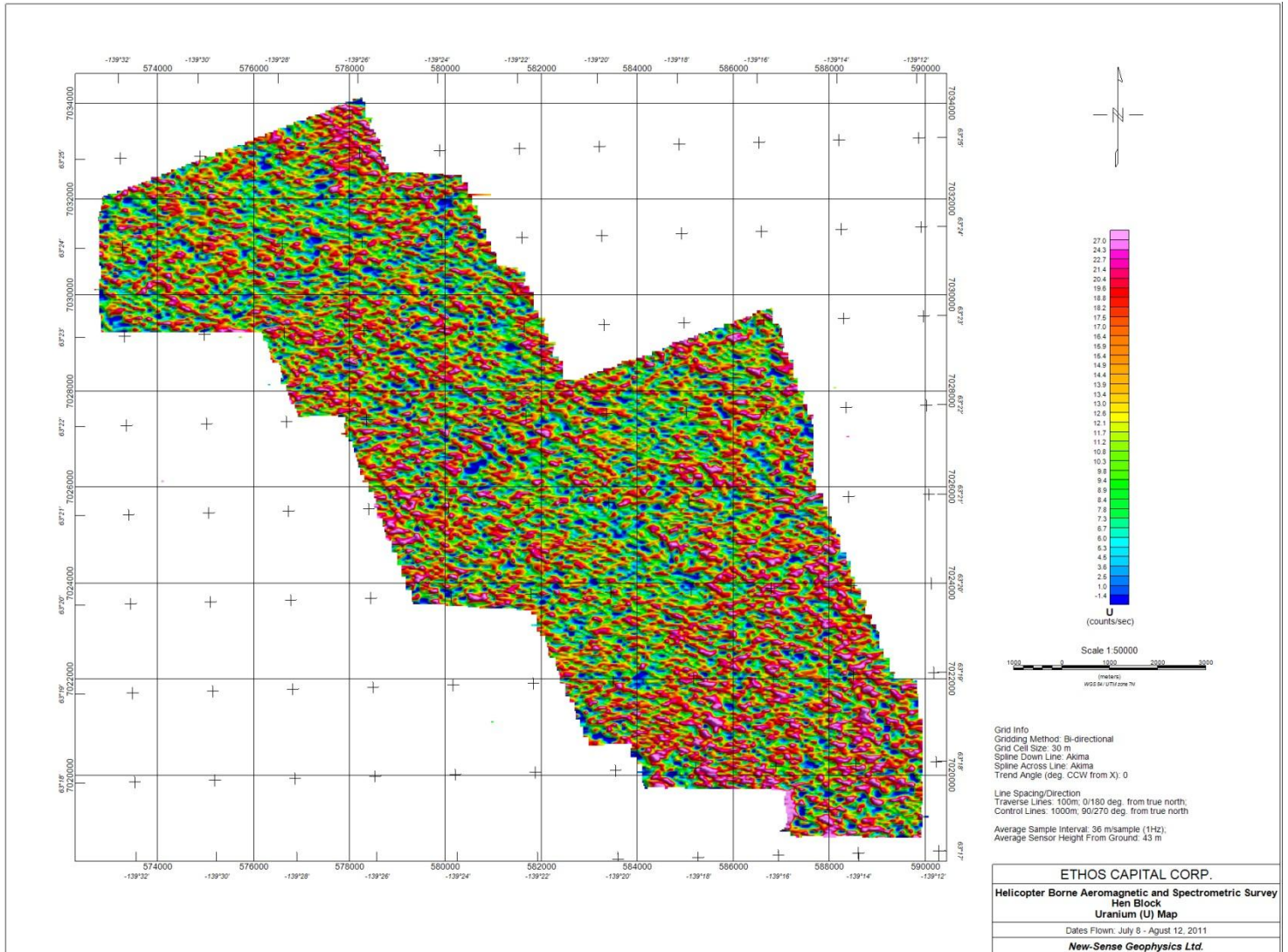
# Hen Block Image of Potassium Map



# Hen Block Image of Thorium Map

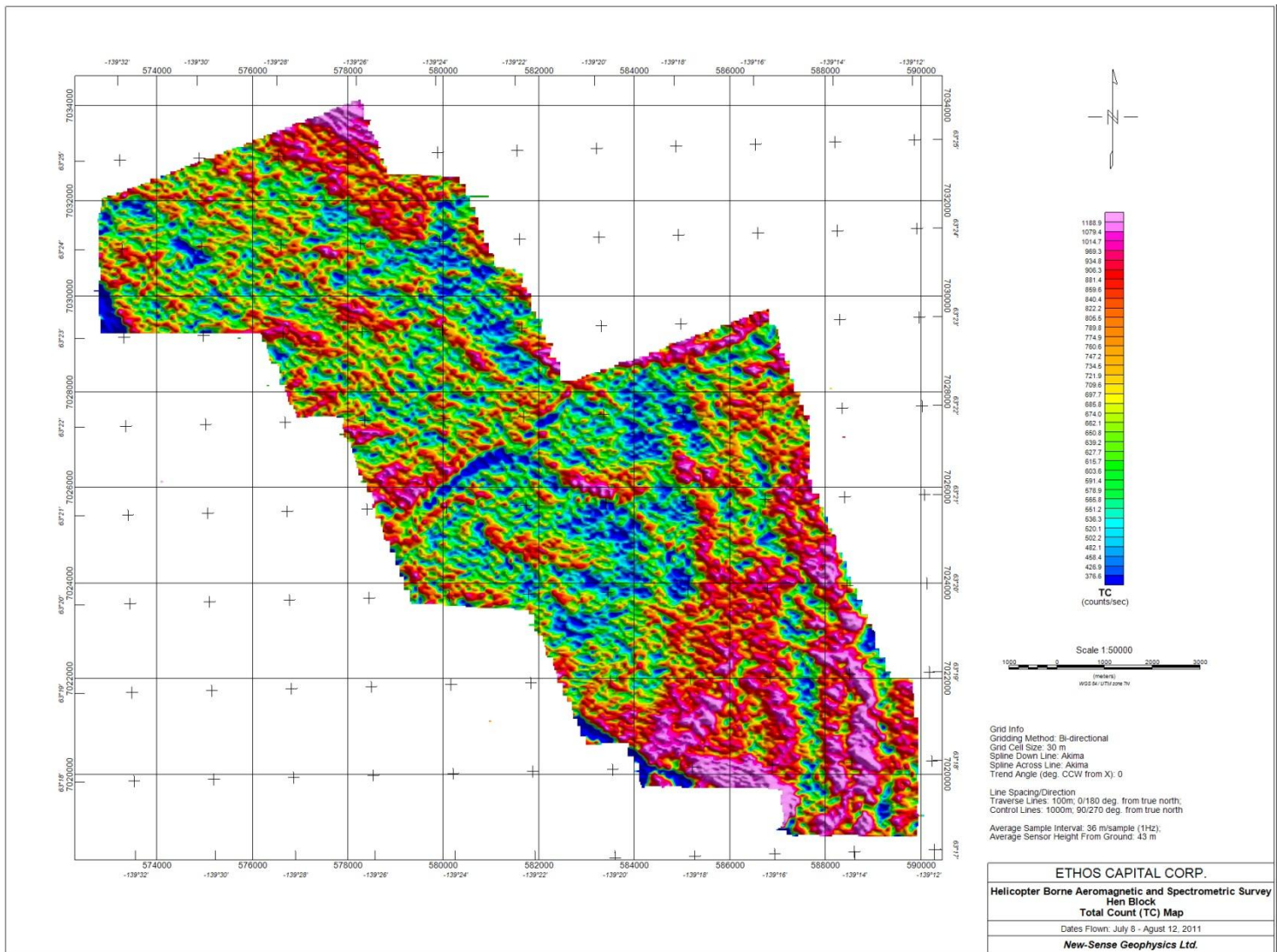


# Hen Block Image of Uranium Map

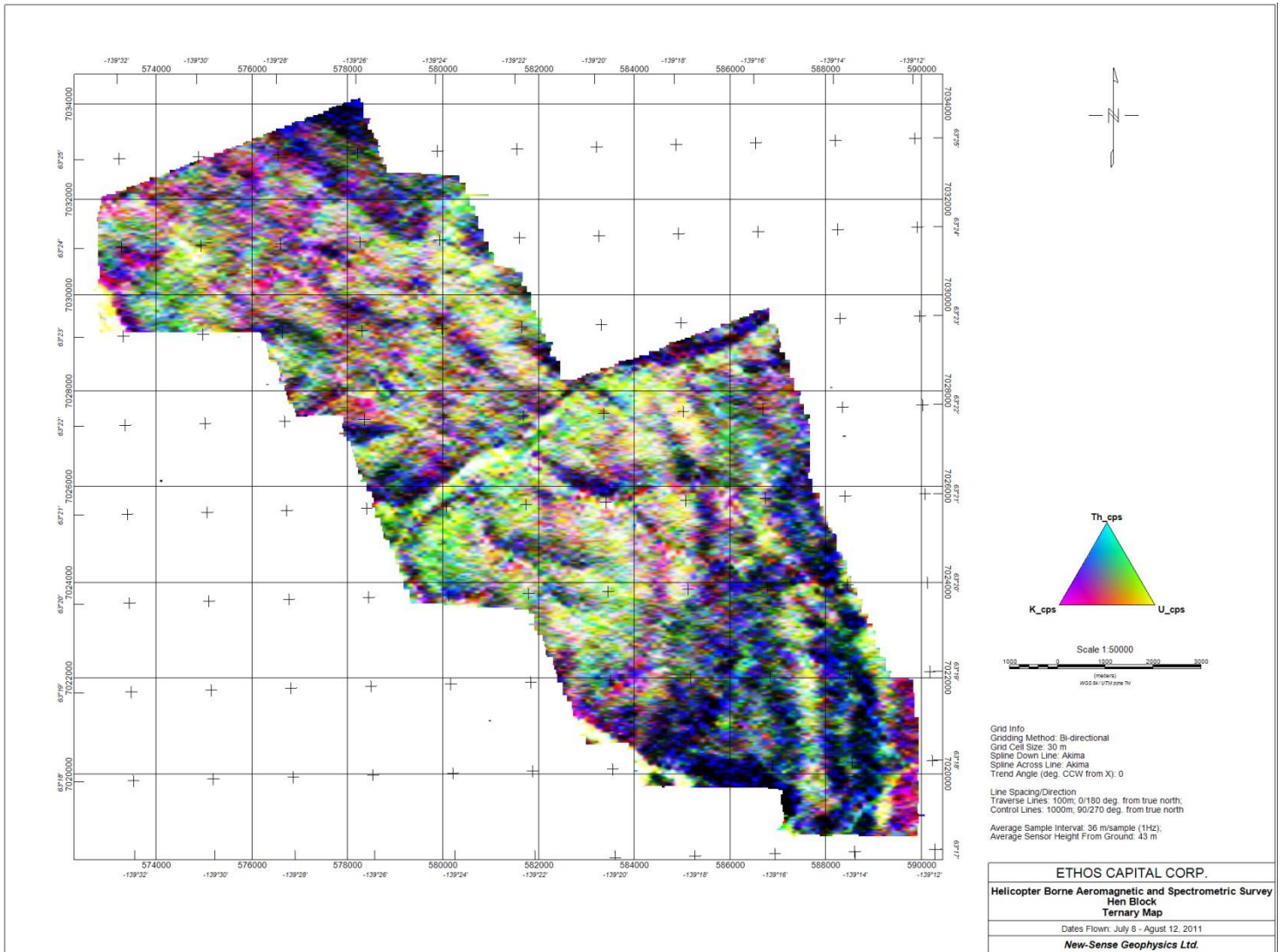




# Hen Block Image of Total Count Map

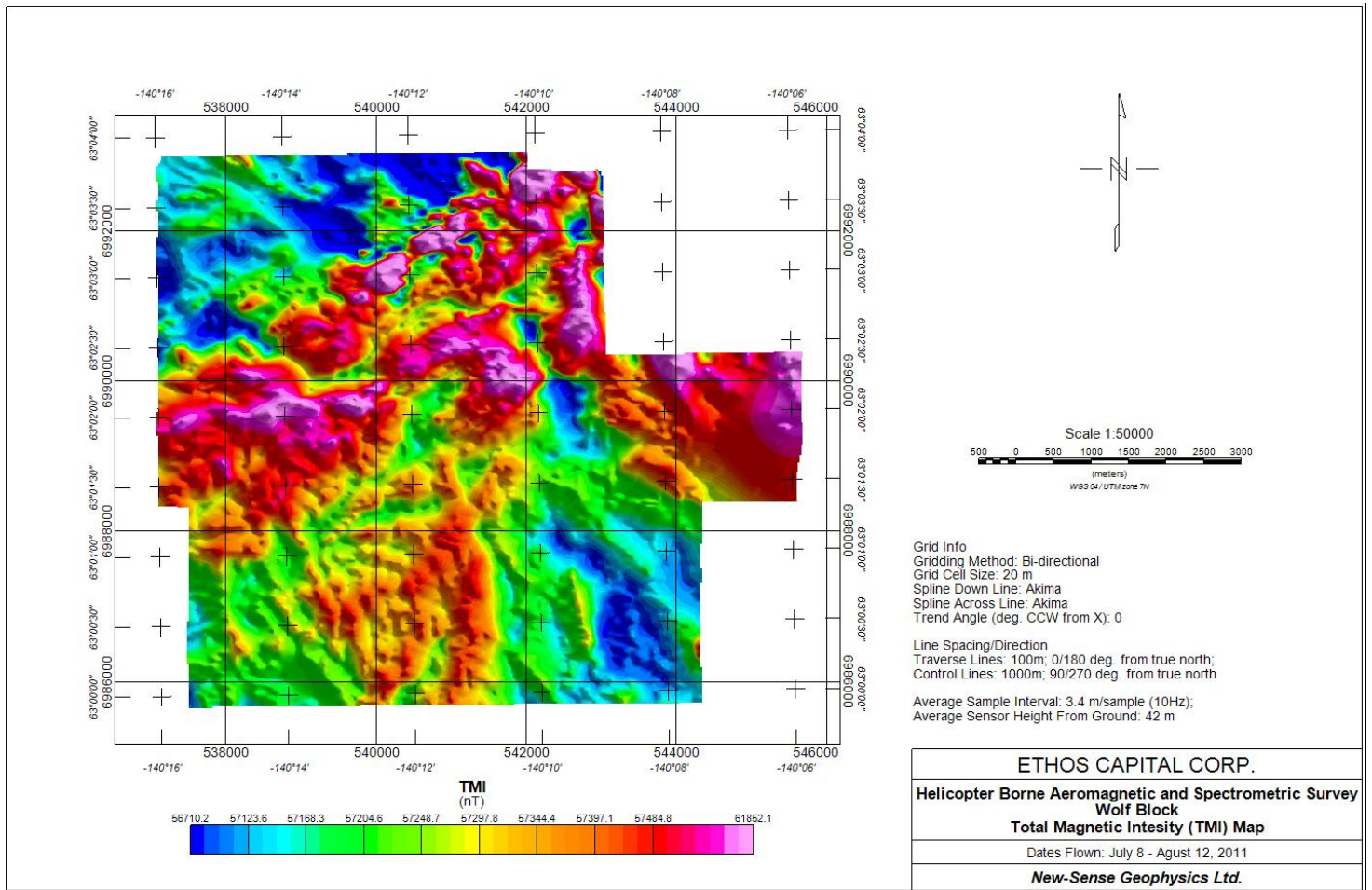


# Hen Block Image of Ternary Map

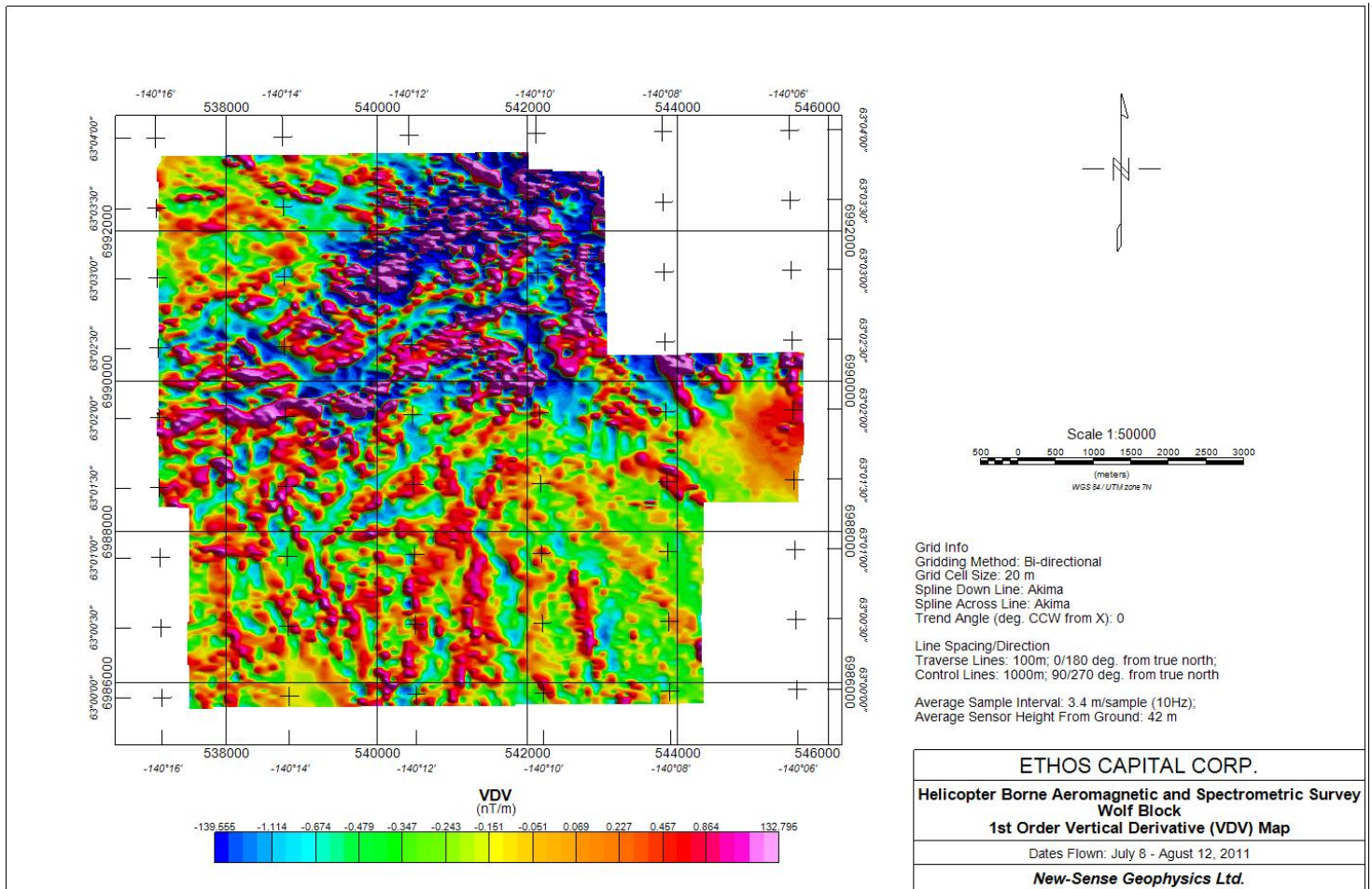




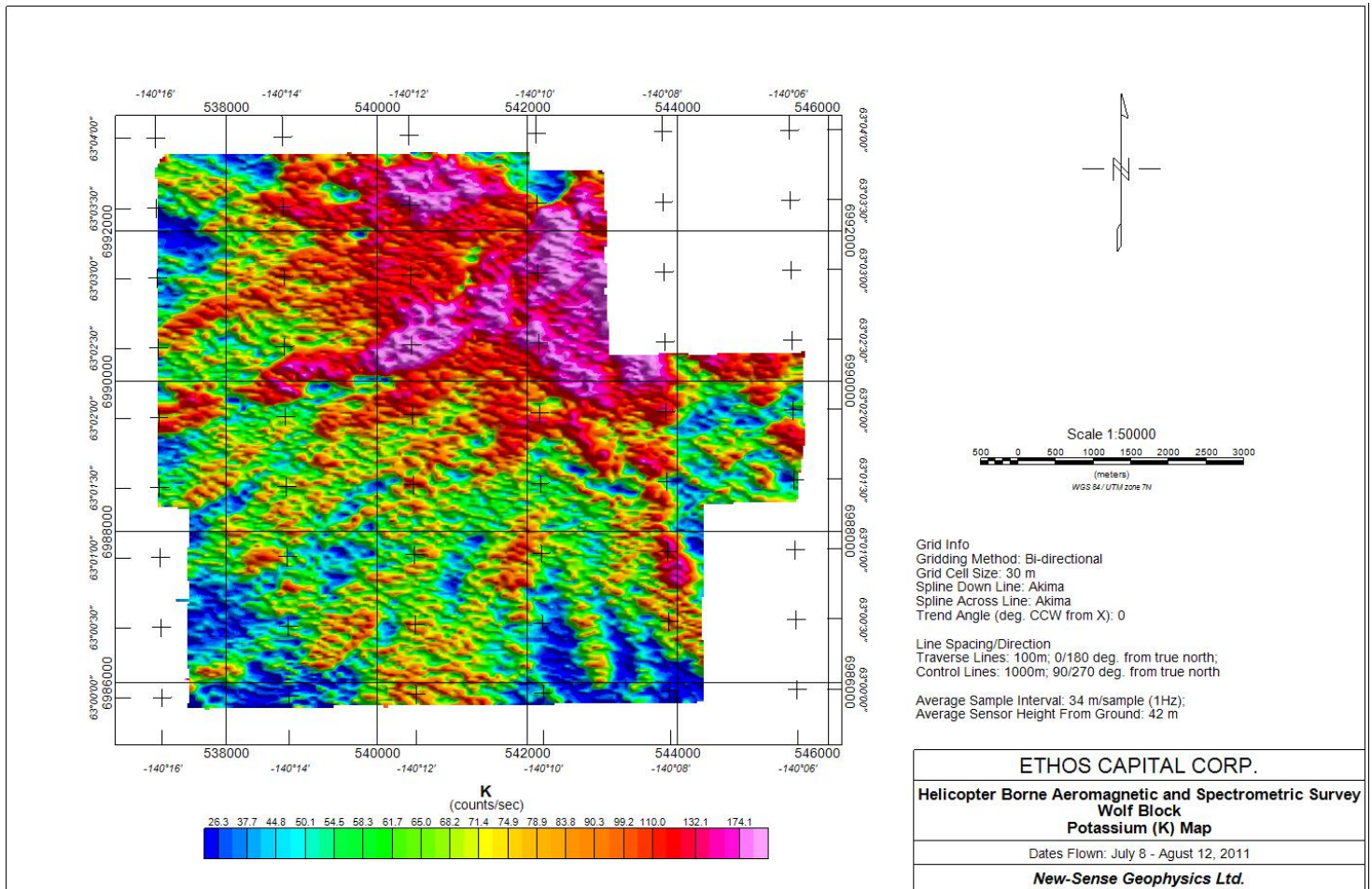
# Wolf Block Image of TMI FINAL Map



# Wolf Block Image of VDV Map

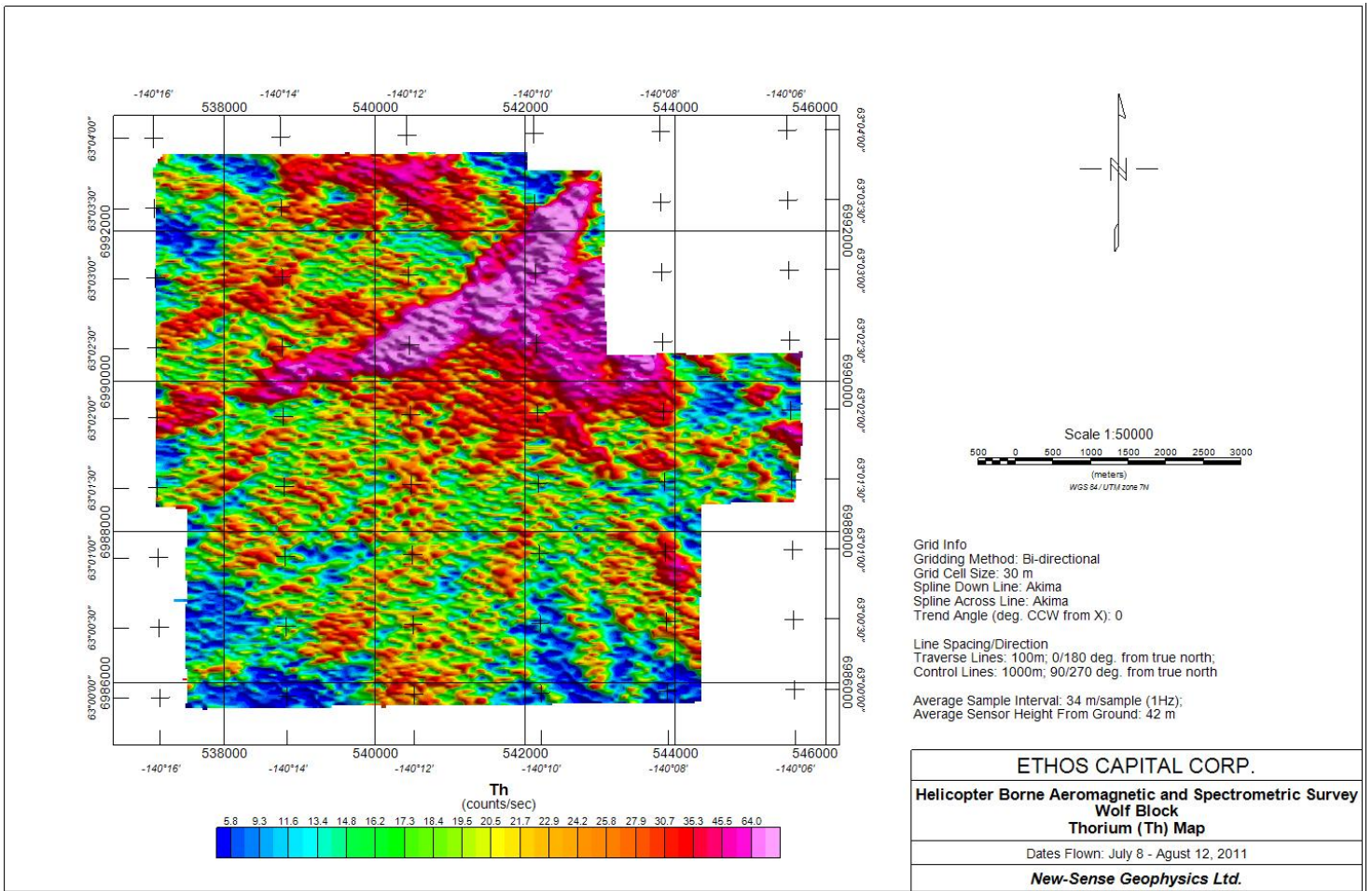


# Wolf Block Image of Potassium Map

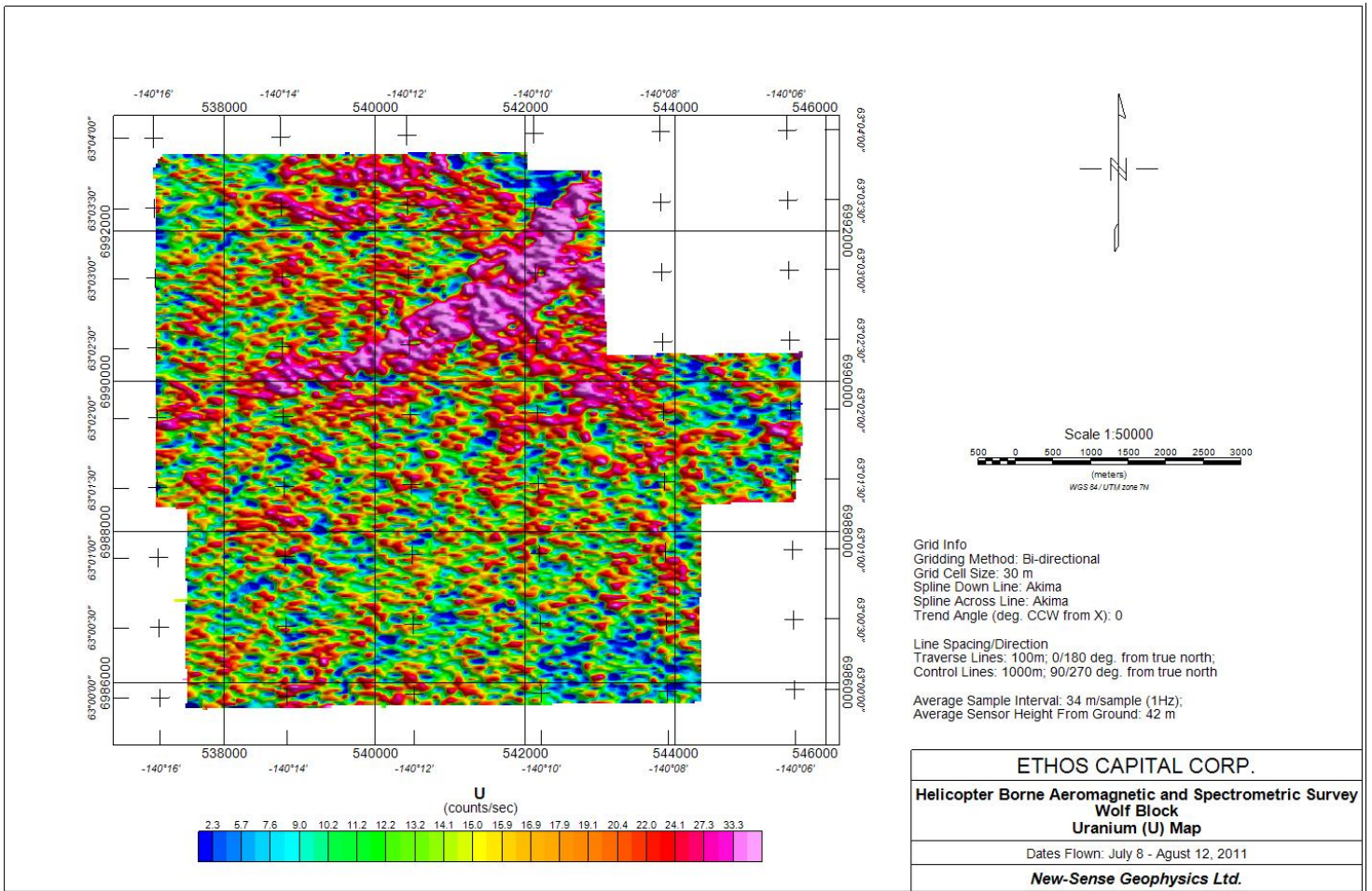




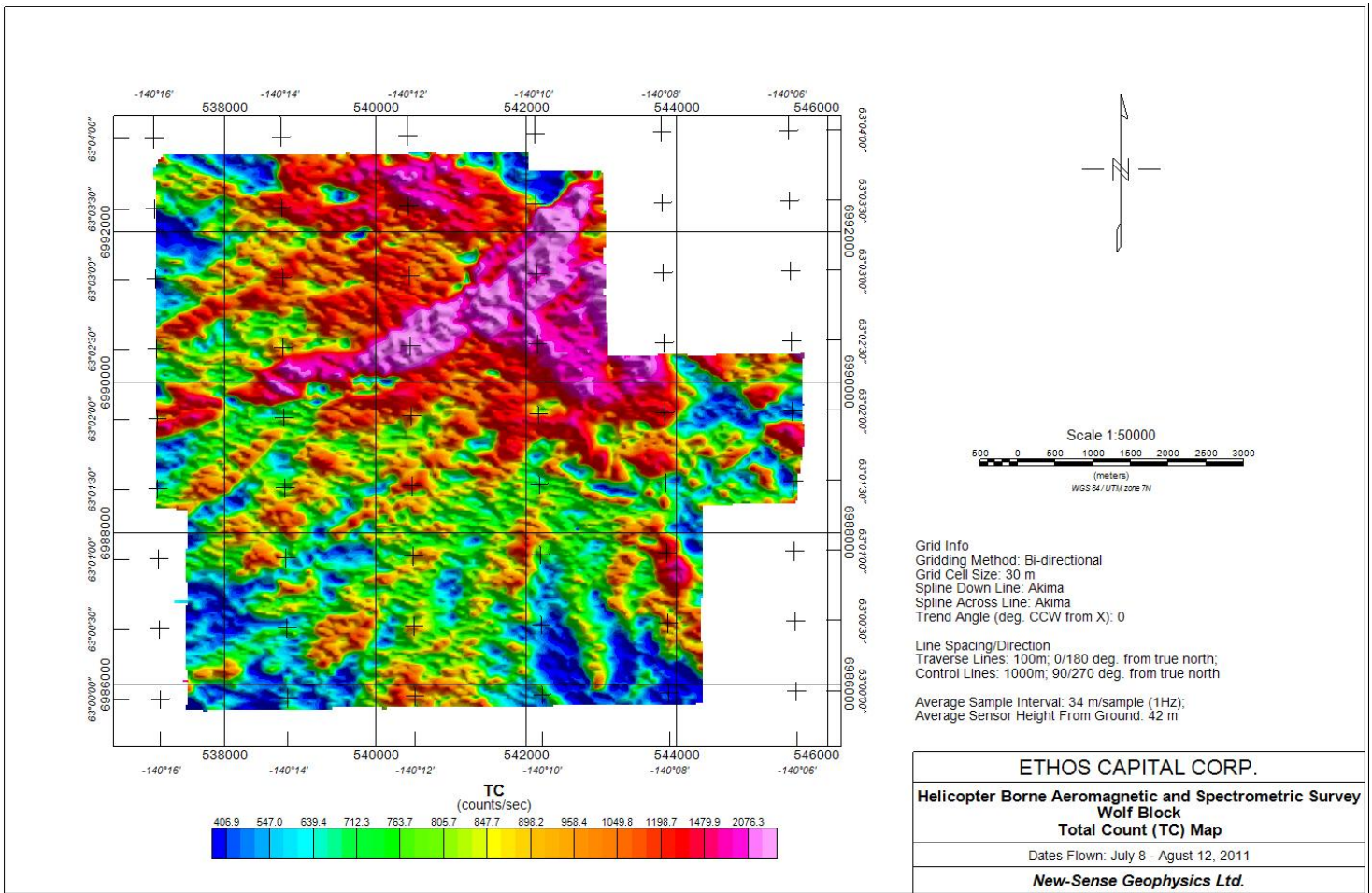
# Wolf Block Image of Thorium Map



# Wolf Block Image of Uranium Map

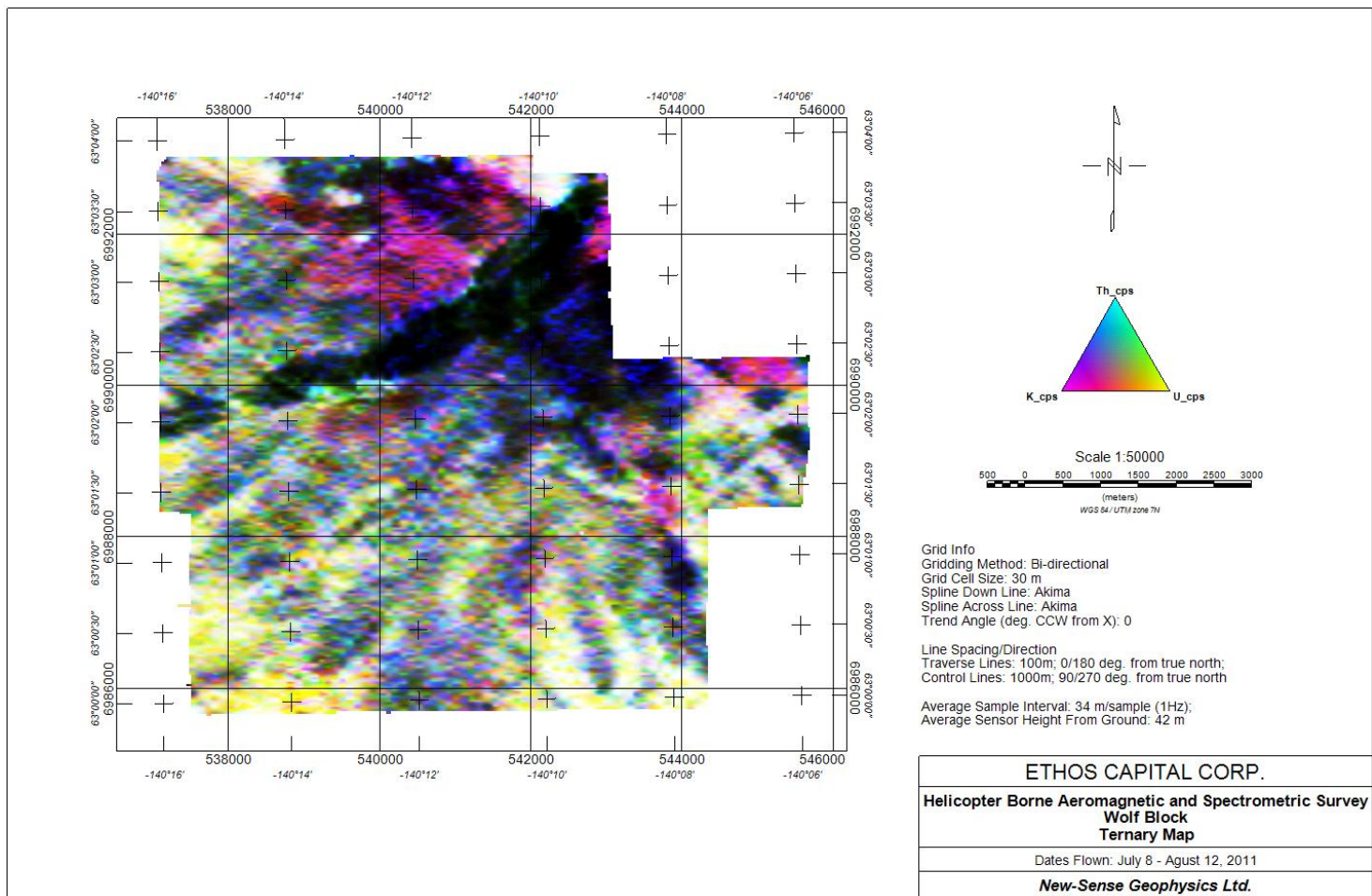


# Wolf Block Image of Total Count Map





# Wolf Block Image of Ternary Map



## APPENDIX F: MICROLEVELLING DESCRIPTION

As per PGW Microlevelling GX help file available through Geosoft Oasis montaj 7.2

**DECORR.GX**                   Version 3.0  
                              Paterson, Grant & Watson Limited  
                              March 2003

**PARAMETERS:** (miclev group parameters are used, so that values set will be passed to MICLEV.GX)

miclev.Xchan = x channel (default "x")  
  .Ychan = y channel (default "y")  
  .Ochan = original data channel (no default)  
  .Nchan = decorrugation noise channel (default "dcor\_noise")  
  .Space = flight line spacing  
  .Dir = flight line direction in degrees azimuth (clockwise from North)  
  .Cell = cell size to use for gridding (default = line spacing/5)  
  .Wlen = decorrugation high-pass wavelength (default = 4 \* line spacing)  
  .Ogrid = original output grid, new or existing  
  .Nnoise= decorrugation noise grid  
  .XY = Xmin, Ymin, Xmax, Ymax (optional)  
  .LOGOPT= Log option (optional)  
  .LOGMIN= Log minimum (optional)  
  .DSF = Low-pass desampling factor (optional)  
  .BKD = Blanking distance (optional)  
  .TOL = Tolerance (optional)  
  .PASTOL= % pass tolerance (optional)  
  .ITRMAX= Max. iterations (optional)  
  .ICGR = Starting coarse grid (optional)  
  .SRD = Starting search radius (optional)  
  .TENS = Internal tension (0-1) (optional)  
  .EDGCLP= Cells to extend beyond data (optional)

### DESCRIPTION:

decorr.gx and miclev.gx implement a procedure called microlevelling which removes any low-amplitude component of flight line noise still remaining in airborne survey data after tie line levelling. Microlevelling calculates a correction channel and adds it to the profile database. This correction is subtracted from the original data to give a set of levelled profiles, from which a final levelled grid may then be generated. Microlevelling has the advantage over standard methods of decorrugation that it better distinguishes flight line noise from geological signal, and thus can remove the noise without causing a loss in resolution of the data.

To microlevel data, first run decorr.gx, then miclev.gx. decorr.gx offers two options for the grid of the channel to be microlevelled. If a grid prepared from this channel already exists, it may be specified, and when prompted to overwrite, the user should



answer no. If the user wishes to prepare a new grid of the channel to be microlevelled, the minimum curvature gridding algorithm (rangrid.gx) is applied. The advanced button provides access to the standard minimum curvature gridding parameters. Once the gridding is completed, decorr.gx applies a directional high-pass filter (see end note) perpendicular to the flight line direction, in order to produce a decorrugation noise grid. (The default grid cell size is 1/5 of the line spacing. The user may specify a different cell size if desired. A smaller cell size will give a more accurate result, but a larger cell size will make the gx run faster and use less disk space.) The noise grid is then extracted as a new channel in the database (default name is "dcor\_noise"). This channel contains the line level drift component of the data, but it also contains some residual high-frequency components of the geological signal. miclev.gx applies amplitude limiting and low-pass filtering to the noise channel in order to remove this residual geological signal and leave only the component of line level drift, which is then subtracted from the original data to produce a levelled output channel named "miclev".

decorr.gx calculates default amplitude limit and filter length values for use in miclev.gx, but the skilled user may be able to set better values for these parameters based on an inspection of the noise grid. (The micro-levelling process is broken up into two separate GXes in order to allow the user to do this.) Flight line noise should appear in the decorrugation noise grid as long stripes in the flight-line direction, whereas geological anomalies should appear as small spots and cross-cutting lineaments, generally with a higher amplitude than the flight line noise, but with a shorter wavelength in the flight-line direction. The user can estimate the maximum amplitude of the flight line noise, and set the noise amplitude limit value accordingly. Similarly the user can estimate the minimum wavelength of the level drift along the flight lines, and set the low-pass Naudy filter width to half this wavelength. The defaults are to set the amplitude limit equal to the standard deviation of the noise grid, and to set the filter width equal to five times the flight line spacing.

There is an option of using either of two kinds of amplitude limiting. In "clip" mode any value outside the limit is set equal to the limit value. In "zero" mode any value outside the limit is set equal to zero. The clip mode makes more sense intuitively, but it has been found in practise that the zero mode may reject geologic signal better, depending on the particular data set. As a rule the zero mode works better on datasets in which the noise grid contains a lot of high-amplitude geological signals (e.g. shallow basement areas). For datasets in which the noise grid contains mainly flight line noise (e.g. sedimentary basins), the clip mode works better.

Microlevelling applies a level correction to the traverse lines only. If it is desired to grid the tie lines together with the microlevelled traverse lines, then it may be necessary to also apply a level correction to the tie lines so that their values agree with the microlevelled traverse lines at the intersections. This may be done as follows:

- 1) Copy the tie line values to the microlevelled channel.
- 2) Use intersct.gx to find cross-difference values for the microlevelled data.
- 3) Use xlevel.gx to load these cross-difference values to the tie lines.

- 4) Apply fulllev.gx to the tie lines. The output will be a set of tie lines that matches the microlevelled traverse lines at all inter-sections.
- 5) Copy the microlevelled traverse line values into the same channel as the corrected tie line values.

---

**Decorrugation Filter:**

The decorrugation noise filter is a sixth-order high-pass Butterworth filter with a default cutoff wavelength of four times the flight line spacing, combined with a directional filter. The directional filter coefficient as a function of angle is  $F=(\sin(a))^2$ , where  $a$  is the angle between the direction of propagation of a wave and the flight line direction, i.e.  $F=0$  for a wave travelling along the flight lines, and  $F=1$  for a wave travelling perpendicular to them. (Note this is the exact opposite of what is usually called a decorrugation filter, since the intention here is to pass the noise only, rather than reject it.)

The default cutoff wavelength ( $4 * \text{line spacing}$ ) gives good results if the data is already fairly well levelled to start with. In cases where many lines are badly mis-levelled, it may be necessary to set a longer cutoff wavelength, at the risk of removing more geological signal.

**APPENDIX G: COPY OF THE CONTRACT**

**CONTRACT  
FOR  
A HELICOPTERBORNE AEROMAGNETIC AND SPECTROMETRIC  
SURVEY FOR ETHOS CAPITAL CORP. PROPERTY, SOUTH OF DAWSON  
CITY, YUKON, CANADA.**

**NEW-SENSE GEOPHYSICS LTD.** ("NSG"), with its corporate offices at

195 Clayton Drive, Unit 11  
Markham, ON, Canada  
L3R 7P3

Telephone: (905) 480-1107/ (905) 480-9989  
Fax: (905) 480-1207

Offers to carry out airborne geophysical services on behalf of

**ETHOS CAPITAL CORP.** ("Client"), with its offices at:

680 - 789 West Pender Street,  
Vancouver, British Columbia, V6C 1H2  
Tel: (604) 682-4750  
Fax: (604) 682 4809

Email: [peter@ethoscapitalcorp.com](mailto:peter@ethoscapitalcorp.com)

Contact: Peter Tallman, Chief Operating Officer

in accordance with the following description, terms and conditions.

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## **1. COMPANY DESCRIPTION**

New-Sense Geophysics (NSG) traces its history through its current founder and president Dr. W.E.S. (Ted) Urquhart. First as Urquhart-Dvorak, which specialized in processing airborne geophysical data, to High-Sense Geophysics, which became one of the largest airborne survey companies in the world, until it was purchased by Fugro of Holland in 2000, and then to Geoexplo Limitada., which specialized in airborne geophysical consulting and quality control. This sequence spans over 30 years and leads us to NSG, continuing on in the tradition of airborne survey innovation and quality airborne data acquisition.

NSG has established its HQ office in Markham, Ontario where it operates out of a new purpose-designed and constructed 3000 square foot facility. Here it designs and manufactures its own operator-less systems made ‘field-bullet-proof’ by engineer Glenn Slover.

The facility itself is more advanced than what may be found in leading high tech companies anywhere. It is completely wired for production with any processing station able to share information on the internal network and processors and field people in direct voice and data communication anywhere in the world. Highly secure firewall features prevent unauthorized access and fail-safe systems prevent any potential data loss through accident, intent or act of God. Clients with authorization can view the progress of their survey on a 24/7 basis.

The company has five data processing workstations with capacity to expand to twice that. A large inventory of systems and components provides for rapid remediation of field problems with the hardware should any occur. All this equipment is rigorously tested, using the built-in network and permanently installed sensors including GPS antenna signals available to each workbench.

The company works world-wide and presently has a second office of operation in Santiago Chile where equipment is maintained and processing takes place.

The company and its personnel through its many years in airborne surveying, airborne software and hardware development, and airborne survey data processing, has dealt with literally millions of kilometers of airborne data acquired in perhaps 80 countries. NSG itself has flown, processed and interpreted more than three quarters of a million line kilometers since 2005. These have been for multi-national companies (like Rio Tinto, Barrick, Teck, and BHP), to junior mining exploration companies, to governments. All have received their data on time and to their satisfaction. And in all of its history dating back 30 years, the companies owned and run by Dr. Urquhart, who developed the concept and practice of operatorless surveying, have not had a single accident ...a perfect safety record.

## 2. SURVEY AREA

A helicopter borne magnetic and spectrometric survey is to be carried out on the Client's project areas referred to as Betty/Bridget, Hen and Wolf blocks, located approximately 130 Km south of Dawson City, Yukon, Canada (see Table 2.1-2.3 and Figure 2.1 for the blocks' coordinates and their location on a map). The survey is to be flown from the Coffee creek camp located at 597,300E / 6,977,400N WGS84, UTM Zone 7N.

**Table 2.1: Betty/Bridget block coordinates**

UTM Zone 7N	
WGS84_X	WGS84_Y
604408	6987093
606017	6988076
606597	6987183
608563	6987317
609546	6985932
615129	6986021
615219	6985619
617854	6985574
617854	6984770
619284	6984770
619284	6983922
620669	6983922
620803	6983028
627727	6983207
629737	6982715
631613	6981822
633087	6980705
637286	6979142
638314	6980035
647248	6969895
645149	6968063
644881	6968331
643585	6967259
642200	6967214
641620	6966857
637644	6966812
636572	6965830



631792	6971056
629603	6969537
629558	6968153
630407	6968197
630541	6965472
631390	6965472
631390	6958995
624153	6958950
624108	6960871
620535	6960871
620490	6958146
614861	6958146
614906	6962613
616782	6962658
616738	6974049
615755	6973960
614906	6973334
613253	6973156
611690	6973558
609635	6974630
606061	6975211
605212	6976461
605302	6978114
603470	6981107
603470	6982447
604096	6982447
604051	6982715
604408	6982960
604408	6987093

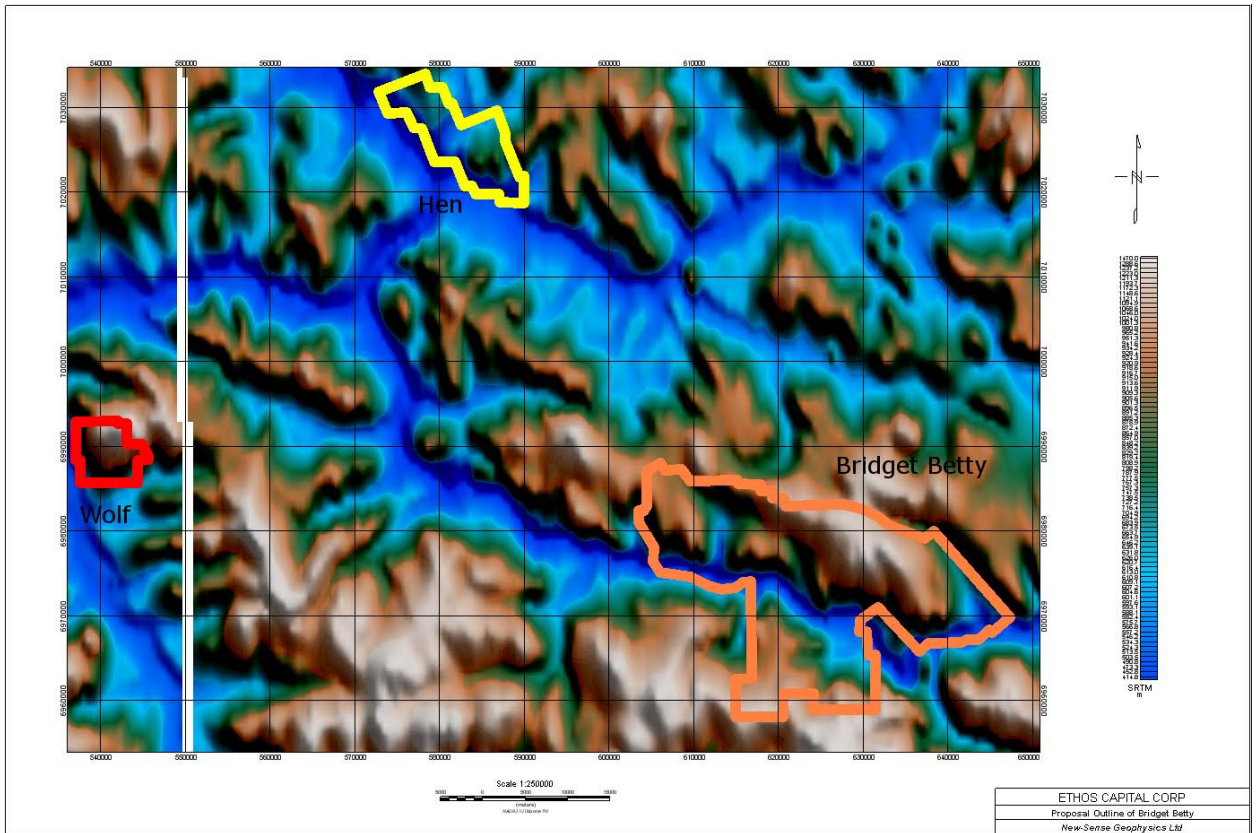
**Table 2.2: Hen block coordinates**

<b>UTM Zone 7N</b>	
<b>WGS84_X</b>	<b>WGS84_Y</b>
572799	7031908
578237	7034044
578820	7032458
580341	7032425
581086	7030516
581506	7030516
582542	7028023
586782	7029642
587689	7027020
587656	7026114
589372	7021873
589890	7021938
589955	7018798
587074	7018863
587009	7019802
584225	7019834
583837	7020805
582995	7020773
581733	7023653
579305	7023686
577816	7027602
576942	7027635
576101	7029448
573803	7029318
572799	7031875

**Table 2.3: Wolf block coordinates**

<b>UTM Zone 7N</b>	
<b>WGS84_X</b>	<b>WGS84_Y</b>
536996	6992935
541991	6992998
542006	6992744
543005	6992744
543053	6990302
544813	6990286
545162	6989716
545162	6989367
545352	6989383
545622	6988939
545622	6988463
544274	6988431
544322	6985783
537519	6985704
537487	6988384
537043	6988399
537043	6992919

Note: the survey will be flown in WGS84, World, UTM Zone 7N.



**Figure 2.1** Location map showing Hen property (yellow), Wolf property (red), and Betty/Bridget (orange) depicted over Shuttle Radar Topography Mission (SRTM). Coordinate System: WGS84, World, UTM Zone 7N.

### **3. TECHNICAL SPECIFICATIONS FOR AIRBORNE SURVEY**

#### **3.1: Betty/Bridget block**

Traverse Line Direction: N-S  
Traverse Line Interval: 100m  
Control Line Direction: E-W  
Control Line Interval: 1000 m  
Estimated Line KM: 6562 L/KM (Traverse)  
656 L/KM (Control)  
7218 L/KM (Total)

#### **3.2: Hen block**

Traverse Line Direction: N-S  
Traverse Line Interval: 100m  
Control Line Direction: E-W  
Control Line Interval: 1000 m  
Estimated Line KM: 1094 L/KM (Traverse)  
113 L/KM (Control)  
1207 L/KM (Total)

#### **3.3: Wolf block**

Traverse Line Direction: N-S  
Traverse Line Interval: 100m  
Control Line Direction: E-W  
Control Line Interval: 1000 m  
Estimated Line KM: 494 L/KM (Traverse)  
54 L/KM (Control)  
548 L/KM (Total)

Mean Terrain Clearance: 30m\* nominal  
Sampling Interval: Magnetics 50 Hz/10Hz; Radiometric 1 Hz second  
Minimum Line Length: 3 Km

\*Note: The 30 meter flight height will be subject to an on-sight safety audit. In any event, the flight height will be subject to pilot safety concerns.

Actual number of survey line kilometers will be those flown and delivered that fall inside the survey boundaries as listed above.

### **3.4 Tolerances**

#### **3.4.1 Traverse line separation**

The pilot will fly to the best of his ability to stay within no more the 50% on either side of the theoretical flight path for a distance of 1000 meters unless obstructions or topography require greater deviations for reasons of safety.

There will be no crossing flight lines unless physical obstructions or topography require such deviation for reasons of safety. Such instances will be communicated and discussed with the client representative in writing.

However, if flight-line path deviations are the result of safety concerns, local aviation authority regulations, or military requirements, NSG will not be required to fly fill-in lines.

#### **3.4.2 Control line spacing**

Control lines will be surveyed at an average interval as specified, but may be located to avoid, where possible, areas of strong magnetic gradient.

#### **3.4.3 Flight Height**

The terrain clearance will be maintained at the planned altitude of 30 meters, subject to the safety requirements, local aviation authority regulations, and/or military requirements.

#### **3.4.4 Missing or Substandard Data**

Data will be recorded digitally in the aircraft and at the ground station. Isolated errors, spikes, and short non-sequential gaps consisting of a few points, will be corrected by interpolation.

#### **3.4.5 GPS**

GPS will be used for navigation.

### **3.4.6 Diurnal**

Magnetic diurnal activity will be monitored at the base station. If the magnetic activity exceeds 20 nT per 2 minute period, a flight will not depart until the activity has returned to levels below this rate. Once a flight has started it will not be aborted due to diurnal activity.

### **3.4.7 Speed**

The aircraft will maintain a constant airspeed during the survey, with the exceptions where wind direction and/or intensity, or topography will make it impossible to do, while keeping the aircraft safely on line.

### **3.4.8 Re-flights**

Any flight lines or parts of flight lines with data outside the above tolerances will be considered for re-flights. All re-flown lines or portions of lines will be tied to the closest control lines at both ends.

## **4. PAST PERFORMANCE OR EXPERIENCE AND QUALIFICATIONS**

### **4.1 Organizational experience**

NSG provides high quality airborne magnetic/gradiometer and spectrometer surveys using fixed-wing and helicopter platforms. The company is owned and operated by W. E. S (Ted) Urquhart Ph.D. who was the founder and President of High-Sense Geophysics Limited that was sold to Fugro in 2000. After a five-year non-compete period, NSG was inaugurated to re-enter the airborne survey industry to carry on the tradition of providing innovative technologies focusing on collecting the highest quality airborne geophysical data in the safest possible manner.

NSG operates from two offices, one in Markham, Canada where its equipment is manufactured, tested and dispatched throughout the world; the other is in Santiago, Chile where NSG offers airborne geophysical services in Spanish to its South American clients.

NSG has performed airborne geophysical surveys in Africa, North America, Europe, the Middle East and South America. NSG has flown in excess of 700,000 line km in the last 3 years for clients such as major companies like: USGS, BHP Billiton, PG&E, Kennecott, Teck Cominco, Barrick Gold, Kinross, Gold Field, etc.

## **4.2 References of previous surveys**

Dr. V. J. S. (Tien) Grauch, Scientist in charge, *U.S. Geological Survey*  
Phone: +1 (303) 236-1393  
Email: tien@usgs.gov

Donald Hinks, Project Geophysicist, *Kennecott Exploration Company*  
Tel +1 (801) 204 3404  
Cell +1 (801) 638 8528  
Email: donald.hinks@riotinto.com

Peter Mills, BHP Billiton Ltd.  
Tel: + (976) 11 323033 x103  
Email: peter.j.mills@bhpbilliton.com

## **4.3 Qualifications of the personnel and pilots**

### **4.3.1 NSG representative**

NSG conducts surveys with an operatorless system and as a result typically sends only one field geophysicist on the job site who possesses good knowledge in not only QC/QA, data processing but in the equipment maintenance as well. At this stage it is planned that NSG representative on the job site would be Mr. Sean Plener with Mr. Andrei Yakovenko being the general project manager under the oversight of Dr. William E. S. (Ted) Urquhart

Field:

Mr. Sean Plener is a detail oriented specialist with international and domestic survey and mapping experience and a background in Physical Geography and Earth and Atmospheric Science. Sean has been working with New-Sense since 2007 on both airborne FW and Helicopter total field magnetic and radiometric surveys in different parts of North America and South America.

Geophysicist:



Mr. Yakovenko, Andrei, has been responsible for fixed wing and helicopter airborne operations including permanent, contract, and air crew supervision, logistics, data QA/QC, data processing, and reporting.

He is a tri-lingual, solutions oriented specialist with international and domestic survey and mapping experience, with a background in geology, underwater, land-based archaeology, and geophysics. Currently a Masters candidate in geophysics at McMaster University, Andrei obtained his B.Sc. (Honors) from the University of Toronto. He is skilled in geophysical data processing using Oasis Montaj and coordinating multiple airborne projects. Andrei has authored multiple scientific publications.

Office supervision:

Dr. Urquhart has over 40 years of experience in geophysics, during which time he has been involved in field surveys, operations, management, data quality, safety, data enhancement, compilation and interpretation for various projects throughout the world. Ted was an owner and president of High-Sense Geophysics Ltd. (the third largest geophysical airborne survey company in the world). He has participated in projects as diverse as oil basin studies, mineral and diamond exploration and radioactive satellite fragment recovery. Academically, Ted has conducted research (M.Sc., Ph.D., and professionally) into the correlation of magnetic anomalies with geological factors on both a large and small scale.

## **5. NSG'S QUALITY CONTROL**

During data acquisition, the system will be monitored by the field QA/QC personnel to ensure that the equipment is secure and unchanged. If equipment has been noted to shift or a mechanical part of the aircraft has changed, another FOM will be flown.

Base station and survey flight data is collected immediately after each flight and duplicate copies made. Field staff verify completeness of flown lines, note and log any deviations from the flight path, identify (manual & 4th difference algorithm) and remove noise spikes (note: raw data is maintained), magnetic compensated channels created, daily progress report updated and posted for client, complete data set sent to NSG.

The iNAV V3 system, used for both flight and base station systems, store real time data on two independent storage media (hard disk, and a flash memory device). In the event that one of the devices fails or data were corrupted, a backup remains intact.

Post field production is done on a day-by-day basis. After the field data QA/QC process described in sections 7.4.1 and section 7.4.2, the data is sent to NSG's secure FTP. The post field QA/QC and leveling will be done by either Andrei Yakovenko or Dr. Ted Urquhart. The field staff is in contact with the in-house processor every evening to ensure data was received and to discuss previous flights. If there is an issue, the field staff can be reached by cell or satellite phone to make the necessary corrections before production continues. This immediate processing of the data to pre-final stages, benefits the client in three very important ways: First, there are multiple levels of personnel monitoring the survey data in a short period. If something is missed by the field staff, it will be caught by our in-house personnel before the survey progresses much further; second, we can update the client with current pre-final maps so areas of interest can be discussed and in-fills or re-flights can be planned before the survey lines are completed, thereby minimizing standby days; finally, the pre-final maps are ready the day after flying is completed and can be submitted for the clients approval.

The final products will be prepared as to the contract's obligations, section 8, and with Client's consent on all the data processing steps and procedures. A first version of the final products will be delivered to Client or other client representative for a review and approval.

For additional Data Processing and QA/QC information refer to the following sections regarding:

- Procedures including measures for aircraft's aeromagnetic system calibration (refer to sections 7.2.)
- Inflight data acquisition (sections 7.1 (except 7.1.4, 7.1.9, 7.1.10), 7.2, and 7.3)
- Flight path location (section 7.1.7)

- Ground magnetometer data acquisition (section 7.1.4)
- Data processing and map preparation (sections 7.4 and 8)

## 6. **EQUIPMENT SUITABILITY AND CONTINGENCY PLAN**

### 6.1 **Availability and quality of proposed data acquisition and processing equipment**

#### **Aircraft:**

A Bell 206BIII or similar helicopter provided by Northern Air Support based in Kelowna, British Columbia will be used.



The aircraft with its field crew will operate from Coffee creek camp and be using certified fuel drums for refueling at the camp site and optional designated fuel cash closer to the survey area.

The Jet fuel for the survey and its positioning will provided by the client.

The aircraft will be limited to VFR flying conditions. All other conditions will be left to the discretion of the pilot in command.

## **Data Acquisition:**

NSG builds and maintains its own proprietary data acquisition systems known as iDAS. The iDAS system features the KroumVS Instruments KMAG4 magnetometer counter and the KANA8 analog to digital converter. The systems are built with a wide range voltage input (9V to 36V) to accommodate a variety of aircraft power supplies.

The iDAS system uses sophisticated software to provide an autonomous "Operatorless" system resulting in a SAFER survey environments by removing the need for an operator on board the aircraft.



The systems will be available within two weeks of the signing of the contract.

For the data processing NSG is using Geosoft Oasis montaj with a number of build in GX scripts.

## **6.2 Electronic navigation**

Pilot Friendly Navigation display (PI) delivers all the navigation and control features necessary for the pilot to safely maintain the highest quality flight line specifications without additional safety risk of having an operator on board the aircraft (see also section 7.1.7).

## **6.3 Safety Plan**

Safety is the number one priority at NSG. NSG is an active member of the International Airborne Geophysics Safety Association (IAGSA)

Prior to mobilizing to the job site, IAGSA Risk Analysis and NSG Job Safety Plan will be prepared in the Markham office. There are areas of the report that require a physical

presence on the job site (i.e. reconnaissance flight, identifying local hazards, etc.). At the job site, before each departure, the pilot will contact the local air traffic controller.

Prior to flying the first production line, a safety meeting is held by a NSG representative where each of the reports is explained to all members of the survey crew. A reconnaissance flight will then take place and the IAGSA Risk Analysis and NSG Job Safety Plan will be completed.

Every Sunday, a weekly safety meeting takes place where any and all the safety concerns and issues during the past week are brought to attention and logged to a weekly safety report.

Pilot safety is enhanced by the use of a flight following system that provides updates at 2-minute intervals on the GPS location of the aircraft. This information is monitored in real time on the internet by authorized personnel. In case of an emergency the pilot could press a “Panic Button” connected to the Flight Following and the signal will be transmitted at around 10 sec. intervals or less, which would drastically reduce the search area in a case of emergency landing.

The client will be provided with a login for real time monitoring of aircraft activities through this Flight Following System.

In addition, the Flight Following has an integrated satellite phone that is connected directly to the pilot’s headset. This minimizes any distraction to the pilot when sending or answering a call.

Prior to the flight’s departure, a NSG representative records all the information regarding the aircraft status, such as time of departure, endurance, fuel level, etc.

Once in the air, NSG representative monitors the aircraft at least once every half hour. In case of internet problems, a call will be given right away to the satellite phone integrated to the pilot’s headset and once every hour.

If the flight following signal is lost and the pilot cannot be reached by satellite phone, then NSG’s emergency response procedure is initiated (detailed in the NSG Job Safety Plan).

The aviation company will adhere to all the standards and requirements for local approved air operators.

In summary:

- NSG is active members of International Airborne Geophysics Safety association (IAGSA)

- On each job NSG completes both IAGSA Risk Analysis and NSGs Job Safety Plan forms.
- NSG conducts daily safety meetings with the crew before any flying takes place.
- A Flight Following system will accompany NSG iDAS system that provides updates on every 2 minute intervals, which could be monitored through internet access.
- In addition, the Flight Following has an integrated satellite phone that is connected directly to pilot's headset. Thus minimizing any distraction if pilot decides to send or receive a call.
- The client will be provided with a login for real time monitoring of the helicopter activities through the flight following system.

#### **6.4 Safety Record**

No accidents or near accidents have ever occurred at NSG. Since its inception, the company has flown over 45 magnetic and/or radiometric surveys totaling well over half a million line kilometers without an accident.

In addition, High-Sense Geophysics formed in 1993, owned by NSG president Dr. Ted Urquhart, also had an accident-free history. High-Sense rose to become one of the world's largest airborne survey contractors and had met and exceeded the rigorous safety standards of BHP, Shell, and Phillips, among others. It had performed surveys without incident or accident in difficult areas including Vietnam, China, Mongolia, Mauritania, Democratic Republic of the Congo, Brazil, and Sudan.

## **7. TECHNICAL APPROACH**

### **7.1 AIRBORNE AND GROUND INSTRUMENTATION**

#### **7.1.1 Aircraft Type**

The aircraft allocated to conduct this survey is a JetRanger 206BIII helicopter (or different see Section 6.1) with a fix mount stinger assembly with a Cesium magnetometer mounted in it.

#### **7.1.2 Geophysical Flight Control System**

A geophysical flight control system, designed and built by NSG will be provided. This system will control, monitor and record the operation of all the geophysical and ancillary sensors.

#### **7.1.3 Airborne Magnetometer**



The magnetometers will be cesium sensors, operated in strap down tail stinger mount. The orientation of the sensor is adjustable, to provide optimum coupling with the earth's field on reciprocal headings. The magnetometer has a sensitivity of better than 0.01 nT at a sampling interval of 0.1 s. The magnetometer has the capability to measure ambient magnetic fields in the range of about 100 to more than 100,000 nT.

The airborne magnetometer is supplemented with an 18-term digital compensation system that uses the input from a 3-axis fluxgate to determine the aircraft's attitude and rate of change with respect to the earth's magnetic field. The compensation system identifies the permanent, induced and eddy current magnetic



contributions of the aircraft and provides a correction to be applied to the raw magnetic data to remove the maneuver noise.

A FOM will be calculated by summing the absolute errors of each of the 12 maneuvers and will be less than 3 nT.

#### 7.1.4 Ground Magnetometer



Scintrex Cesium CS3 or GSM19 Proton magnetometers will be operated at the base of operations within or near the survey area in an area of low magnetic gradient and free from cultural noise. The sensitivity of the ground magnetometer will be equal to better than 0.1 nT. Data will be recorded continuously every 1 second (or a rate defined by the client) throughout the survey operations in digital form. Both the ground and airborne magnetic readings are automatically time stamped with GPS time to within 0.005 seconds ensuring a very high degree of correlation based on broadcast GPS satellite time.

#### 7.1.5 Radar Altimeter



A Terra 3500 radar altimeter will be operated in the aircraft throughout the survey to provide ground clearance information. The altitude will be recorded every 0.1 second or better. This instrument has a linear performance over the range of 0 to 2500 feet.

### 7.1.6 Fluxgate Magnetometer



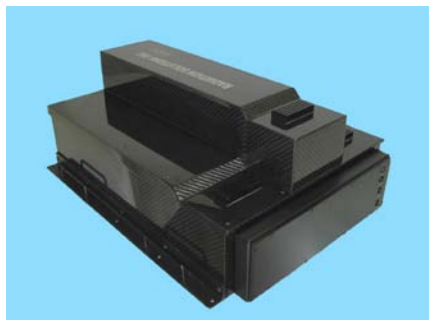
To achieve quality compensation NSG uses a Bartington Mag-03 Three Axis Magnetic Field Sensors. These compact, high performance fluxgate magnetometers with integral electronics provide reliable precision measurements of static and non-static magnetic fields in three orthogonal axes. The magnetometer is mounted inside the stinger assembly.

### 7.1.7 GPS Navigation

A 16-channel GPS navigation system will be used for navigation and flight path recovery. The Ublox RCB-LJ GPS receiver board is powered by the ANTARIS® positioning engine.

The leading ANTARIS® GPS Engine provides excellent navigation performance under dynamic conditions in areas with limited sky view like urban canyons, high sensitivity for weak signal operation without compromising accuracy, and support of DGPS and multiple SBAS systems like WAAS and EGNOS. The 16 parallel channels and 8192 search bins provide fast start-up times. The aiding functionality accelerates start-up times even further. The low power consumption and FixNow™ power saving mode make this product suitable for handheld and battery-operated devices.

### 7.1.8 Spectrometer



The RS-500 Airborne Spectrometer with RSX-5 detector pack, manufactured by Radiation Solutions Inc. (RSI), will be used for the survey. The RS-500

spectrometer has a multi-peak gain stabilization algorithm and is capable of recording 1024 channels with accuracy of 0.1 to 10 counts/second.

The RS-500 is connected to a crystal pack comprising four downward looking crystals (16 liters total) and one upward looking crystal (4 liters total). The downward crystals record the radiometric spectrum from 410 KeV to 2810 KeV over 1024 discrete energy windows, as well as from a cosmic ray channel that detects photons with energy levels above 3.0 MeV. From these 1024 channels, the standard Total Count, Potassium, Uranium and Thorium channels are extracted. The upward crystal is used to measure and correct for atmospheric Radon interference. The shock-protected Sodium Iodide (Thallium) crystal package is unheated and automatically stabilizes with respect to the multiple peaks. The RS-500 provides raw data that has been automatically corrected for gain, base level, ADC offset, and dead time.

A resolution test will be performed before the first and after the last flight each day in order to monitor sensitivity and resolution of the crystal pack.

#### **7.1.9 Field Data Verification System**

NSG will provide a complete PC based magnetic map compilation facility, to serve as a field verification system. The PC computer based system is equipped with all the software necessary to produce preliminary data images in the field. Data will be provided to the client in a Geosoft format.

The digital data records will be verified at the project site to confirm that data recording has taken place within specifications. All raw digital data recorded in flight and on the ground station magnetometer will be duplicated on site to prevent loss, and stored in separate locations.

In the base where there is e-mail connection, data will be sent on a daily basis for further examination in the head office where areas of infill will be chosen.

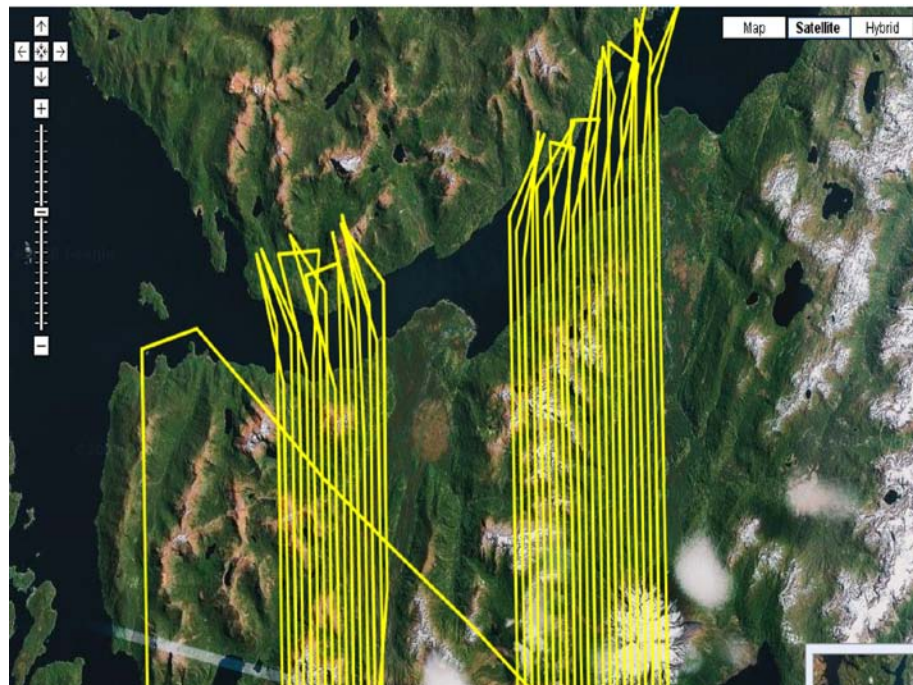
#### **7.1.10 Flight Following System**

NSG places the highest priority on safety and uses satellite tracking and communication technology to monitor all its survey flights. The aircraft will be equipped with Latitude Technologies Skynode S200, a system that includes satellite phone, flight tracking, and messaging transceiver. This system uses the Iridium satellite network, which provides both voice and data communications between the aircraft and ground stations.

The S200 system can be set up for different time frames; it now automatically updates its position at least once every 2 minutes allowing NSG's field or office staff to monitor the progress of the survey flights. All flight staff are trained in the use and the operation of the S200 system.

During the survey, if the pilot experiences any problems with operation of the survey equipment or encounters any other difficulties, he/she can call the field or office staff for support through the satellite phone, which is integrated into the pilots head set. In the event of flight operations problems, field staff can often troubleshoot and correct difficulties allowing survey flights to continue uninterrupted.

In the event of an emergency the pilot may press the "Panic Button" which will cause the system to immediately transmit the location and heading of the aircraft and will continue to transmit the current position of the aircraft continuously at around 10 sec. intervals until the emergency system is turned off.



**Figure 7.2** Screenshot of Flight Following Through Internet Web Browser

## 7.2 INSTRUMENT CHECKS AND CALIBRATIONS

Failure to meet the specifications in any check or calibration test will be cause for corrective action by NSG or approval of the Client before survey operations can be undertaken.

### **7.2.1 Magnetometer**

Figure of Merit (FOM)

A test will be flown on-site prior to the survey to determine the FOM of the installed magnetometer. The system will be flown on the four cardinal headings doing a pitch, roll, and yaw, maneuver on each. The FOM will be calculated by summing the absolute errors of each of the 12 maneuvers and will be less than 3 nT.

### **7.2.2 Altimeter**

Checks of the radar altimeter calibration will be undertaken above the base airstrip or some other suitable location with known elevation and flat terrain.

### **7.2.3 Radiometric**

#### **7.2.3.1 Pre-survey Spectrometer Calibrations and Tests**

Calibration of the spectrometer system is a vital process to airborne radiometrics or airborne gamma-ray spectrometry. The calibration of the spectrometer system involved three tests:

- Calibration Pad measurements, which are used to determine the “spectral overlap” (Compton scattering) coefficients. The calibration test is performed within a 12 month period before and/or during the survey by the manufacturer, Radiation Solutions Inc., at its headquarters location in Mississauga, Ontario.
- Cosmic Flight Test, which is used to determine the aircraft background values and cosmic coefficients. A series of high altitude test lines (e.g., 8,000 ft, 9,000, ft, 10,000 ft, and 11,000ft (if capable) above sea level) will be flown in the vicinity of the survey areas.
- Height Attenuation Test, which determines the altitude attenuation coefficients. A series of test lines (e.g., 50 ft, 100, ft, 150 ft, 200, ft, 250 ft, 300 ft, 400, 600 ft, 800 ft, and 1000 ft above ground) over dry and flat ground, will be flown in the vicinity of the survey areas.

## **7.2.3.2 During-Survey Spectrometer Calibrations and Tests**

### **7.2.3.2.1 Radon Correction Test Line**

The determination of calibration constants that enable the stripping of the effects of atmospheric radon from the downward-looking detectors through the use of an upward looking detector is divided into two parts:

1) Determining the relationship between the upward and downward looking detector count rates for radiation originating from the ground.

2) Determining the relationship between the upward and downward looking detector count rates for radiation due to atmospheric radon.

The procedures to determine these calibration factors are documented in IAEA Report #323 on airborne gamma-ray surveying. The calibrations for the first part will be determined as outlined in the report.

The latter case normally requires many over-water measurements where there are little to no contributions from the ground. Where this is not possible, it is standard procedure to establish a test line/spot over which a series of repeat measurements are acquired.

A test area will be established over a flat ground near the base of operation. Each day when flying takes place the aircraft will hover over the test area for 5 min in order to collect data that later could be used to estimate atmospheric radon fluctuations.

### **7.2.3.2.2 Resolution Daily Tests**

The usual measure of the energy-resolution of a spectrometer system uses the “full width at half maximum (FWHM)” of a photo-peak. This is the width of the peak at half the maximum amplitude divided by the energy of the photo-peak.

The overall system resolution based on the Th photo-peak at 2.61 MeV should always be better than 7% on all downward looking

crystals. If the resolution changes by more than 1% (eg, 4% to more than 5%) from that measured at the start of the survey, flying operations will be ceased until the source of the problem is found and rectified.

**This test is not required with the RS-500 system and will only be performed at the Clients request and upon availability of Th source material.**

## **7.3 DATA RECORDS**

### **7.3.1 Digital Records**

The airborne data acquisition system will record the following information digitally in a format that enables the recording of each variable over its full dynamic range:

- Fiducial count
- GPS UTC time
- GPS latitude, longitude, UTM easting, northing and elevation above ellipsoid
- Raw magnetic total field
- Calibrated radar altimeter output
- Three Fluxgate channels
- Raw Potassium counts
- Raw Thorium counts
- Raw Uranium counts
- Raw upward-looking Uranium counts
- Raw Total Count
- Raw Cosmic counts
- Live Time
- Downward Spectrum

The base station will record the following information digitally in a format that enables the recording of each variable over its full dynamic range.

- GPS time (used as fiducial number)
- GPS raw satellite range information
- Raw magnetic total field

All survey parameters including raw magnetic total field, electronic positioning, radar altimeter, and time and fiducial markers will be recorded digitally during

data acquisition in flight. The magnetic base station will record total magnetic field and GPS time.

The data acquisition system organizes the data in a form directly suited to building the processing database. This digital file structure has for each traverse and control line a unique line number and segment number. The base station magnetic profile and GPS coordinates are added to the database using GPS time for alignment.

## **7.4 DATA COMPILATION AND MAP PRESENTATIONS**

The NSG Field-Mapper PC based computer compilation system will be used to process the collected geophysical data on-site as the survey progresses. The 'on-site' processing will enable the Client to review the magnetic data to evaluate targets to make a qualified decision regarding any changes to the survey quantity and size. This will allow the selection of “in-fill” or area extensions. The preliminary data will be sent via FTP site (assuming reasonable speed internet connection is available) for the client’s review at least once a week (more often should the client require).

### **7.4.1 Magnetic**

#### **7.4.1.1 Field Data Processing**

After collecting flight and base station data, flight data will be imported to Oasis montaj using a NSG template that includes all project data channels. Next flight data will be windowed to only include flight path data within the survey block using custom NSG script that will be developed for the Woodjam survey area.

Magnetic flight data from the tail will then be duplicated to ensure original raw data is not modified in any way. Profiles for the duplicated channels are then checked for visible noise spikes. Any noise spikes are then cleaned manually and interpolated. From there, field staff will run an automated script that will look for any missed noise spikes. This automated script employs a 4th difference algorithm to identify noise spikes in magnetic data. After other channels (radio altimeter, flux gate profiles etc.) are inspected for normal behavior that database is prepared for magnetic compensation. Using QC Tools, compensation coefficients are applied to the cleaned magnetometer channel and the database is saved.



From here, NSG staff will import base station data into Oasis montaj using a NSG template. Base station data is duplicated to maintain a raw channel and then checked for visible noise spikes. After noise spikes have been removed and interpolated, a 101 (or other job specific) low pass filter is applied to base station magnetic channel and the database is saved.

Next, the flight and base station databases are merged, synchronized (using the GPS clock channel recorded by both systems), compressed, encrypted and sent to NSG's secure server in Toronto, for in-office QA/QC and processing procedure.

NSG field staff from there will updated and complete all daily logs (weekly progress report, daily procedures checklist, weekly summary meeting etc.).

#### **7.4.1.2 Post-Field**

As the data being received from the field on day-to-day basis it is reviewed for QA/QC once again to insure that nothing got missed in the field. The data is checked for quality of magnetic signal from all sensors, including the base station magnetometer, fluxgate magnetometer, radar altimeter, line deviations etc. The profiles of the above data are plotted and checked on line-by-line basis. Algorithms like 4th-difference are used to check the CS3 signal.

After the data has been QA/QC checked it is merged with an ongoing master database. Where the following data processing steps take place:

- 1) Diurnal correction - subtracted directly from the aeromagnetic measurements to provide a first order diurnal correction. The mean of base station readings is added back to the data.
- 2) Heading error correction - using pre-constructed heading table.
- 3) Lag correction – to correct for sensor-to-GPS offset.
- 4) Simple Leveling - a survey line/control line network will be created in order to determine differences in magnetic field at the line intercepts. The differences will be calculated and tabulated, then used to guide subsequent manual leveling on any lines or line segments which required adjustments. See image below for an example of contour Total Magnetic Intensity (TMI) map produced after Simple Leveling was applied.
- 5) Microleveling – depending on the Simple Leveling results a Microleveling might be needed in order to further correct the data for linear line-to-line noise. The technique used will be the one developed by Paterson, Grant &

Watson Limited and available through Geosoft Oasis montaj with the mutually accepted parameters.

- 6) IGRF correction - The total field strength of the International Geomagnetic Reference Field (IGRF) 2005 model will be calculated for every data point, based on the spot values of latitude, longitude and GPS altitude, using the 2005 model. This IGRF will be removed from the measured survey data on a point-by-point basis. The mean of IGRF readings is added back to the data.

#### **7.4.1.3 Magnetic data filtering and gridding**

A small (e.g., 7-11 Low Pass or 11-21 points cosine at 10Hz data) filter may be applied on the raw data to smooth out some small high frequency noise.

The TMI grid will be produced using bi-directional gridding technique, with 20 m cell size (or other suitable size depending on liner spacing) and Akima spline across and down lines.

### **7.4.2 Radiometric**

#### **7.4.2.1 Field Data Processing**

After collecting flight data, the radiometric data will be imported to Oasis montaj using a NSG template that includes all project data channels. Next flight data will be windowed to only include flight path data within the survey block. After, an in house-developed radiometric processing GX will be run on the database, which will apply the following corrections:

##### **7.4.2.1.1 Pre-filtering**

The cosmic and radar altimeter channels will be processed with a 10-20 point and 5 point low pass filter respectively to remove spikes.

##### **7.4.2.1.2 Live Time correction**

All the elements including upward looking Uranium and Total Count will be corrected for Live Time using the following formula:

$$Cl_t = C_{raw} \times (1000/LT)$$

Where:

- $Cl_t$  is the live time corrected channel
- $C_{raw}$  is the raw channel
- $LT$  is the Live Time channel

#### 7.4.2.1.3 Aircraft and Cosmic Background

Aircraft background and cosmic stripping corrections will be applied to the Total Count, Potassium, Uranium, Thorium and upward Uranium channels using the following formula:

$$C_{ac} = Cl_t - (ac + bc \times Cosf)$$

Where:

- $C_{ac}$  is the background and cosmic corrected channel
- $Cl_t$  is the live time corrected channel
- $ac$  is the aircraft background for this channel
- $bc$  is the cosmic stripping coefficient for this channel
- $Cosf$  is the filtered cosmic channel

All negative counts after this correction step will be replaced with zeroes.

#### 7.4.2.1.4 Radon Correction

Note: no radon corrections will be applied during the survey. The following is the radon correction description that will be applied after the survey is completed. Until then the various radon coefficients and constants will simply be replaced with 0.

The background and cosmic corrected Thorium, Uranium and upward Uranium data for each line will be smoothed with Hanning filter to produce  $Th_f$ ,  $U_f$ , and  $u_f$  respectively. The radon component in the downward uranium window will then be determined using the following formula:

$$Ur = (uf - a1 \times Uf - a2 \times Thf + a2 \times bth - bu) / (au - a1 - a2 \times ath)$$

Where:

- Ur is the radon component in the downward uranium window
- uf is the filtered upward uranium
- Uf is the filtered uranium
- Thf is the filtered thorium
- a1, a2, au and ath are proportionality factors and
- bu and bth are background constants

The effects of radon in the downward uranium are removed by directly subtracting Ur from Uac. The effects of radon in the Total Count, Potassium, Thorium and upward Uranium are then removed based upon previously established relationships with Ur. The corrections are applied using the following formula:

$$Crc = Cac - (ac \times Ur + bc)$$

Where:

- Crc is the radon corrected channel
- Cac is the background and cosmic corrected channel
- Ur is the radon component in the downward uranium window
- ac is the proportionality factor and
- bc is the background constant for this channel

All negative counts after this correction step will be replaced with zeroes.

#### **7.4.2.1.5 Compton Stripping**

Following the radon corrections for Uranium and Total Count, the potassium, uranium and thorium will be corrected for spectral overlap. First the stripping ratios  $\alpha$ ,  $\beta$ , and  $\lambda$  were modified according to altitude. Then an adjustment factor based on the reversed stripping ratio (a), uranium into thorium, was calculated.

$$ah = \alpha + hef \times 0.00049$$

$$\beta h = \beta + hef \times 0.00065$$

$$\chi h = \chi + hef \times 0.00069$$

Where:

- $\alpha, \beta, \chi$  are the Compton stripping coefficients
- $\alpha h, \beta h, \chi h$  are the height corrected Compton stripping coefficients
- $hef$  is the height above ground in meters

The stripping corrections are then carried out using the following formulas:

$$ar = \frac{1}{1 - a\alpha h}$$

$$Th_c = (Th_{bc} - aU_{rc}) \times ar$$

$$U_c = (U_{rc} - Th_{bc}\alpha h) \times ar$$

$$K_c = K_{bc} - \beta h Th_c - \chi h U_c$$

Where:

- $U_c, Th_c,$  and  $K_c$  are corrected Uranium, Thorium and Potassium
- $\alpha h, \beta h, \chi h$  are the height corrected Compton stripping coefficients
- $U_{bc}, Th_{bc},$  and  $K_{bc}$  are background and cosmic corrected Uranium, Thorium and Potassium
- $ar$  is the backscatter correction
- $a$  is the reverse stripping ratio U into Th

All negative counts after this correction step will be replaced with zeroes.

#### 7.4.2.1.6 Attenuation Corrections

The Total Count, Potassium, Uranium and Thorium data will then be corrected to a nominal survey altitude according to the equation:

$$Ca = C \times e^{-\mu(h_0-h)}$$

Where:

- $Ca$  is the output altitude corrected channel
- $C$  is the input channel
- $\mu$  is the attenuation correction for that channel
- $h$  is the radar altimeter height, in metres
- $h0$  is the nominal survey altitude used as datum

All negative counts after this correction step will be replaced with zeroes.

#### **7.4.1.3 Office Data Processing**

All of the above calibration procedures, tests and corrections applied in the field will be reviewed for QA/QC by assigned office QA/QC and data processing person.

#### **7.4.1.4 Radiometric grids**

Grids of Potassium, Thorium, Uranium and Total Count will be produced using bi-directional gridding technique, with 20 m cell size (or other suitable size) and Akima spline across and down lines.

## **8. FINAL PRODUCTS**

The following is the list of items that will be delivered to the Client:

### **Hard copies (2 copies):**

- Ternary map of Th, U and K (1:50,000 scale)
- Map of Potassium (1:50,000 scale)
- Map of Thorium (1:50,000 scale)
- Map of Uranium (1:50,000 scale)
- Map of Total Count (1:50,000 scale)
- Map of Total magnetic Intensity (1:50,000 scale)
- Final Logistics Report

### **Soft copies (2 copies):**

- Ternary map of Th, U and K at 1:50,000 scale
- Grid and map of Total Magnetic Intensity at 1:50,000 scale
- Grid and map of Potassium counts at 1:50,000 scale
- Grid and map of Thorium counts at 1:50,000 scale
- Grid and map of Uranium counts at 1:50,000 scale
- Grid and map of Total Count at 1:50,000 scale
- Final Logistics Report
- Radiometric data database in Geosoft gdb format including all raw data and height corrected Potassium, Thorium, Uranium, and Total Count
- Magnetics data database in Geosoft gdb format including raw data, base station, compensated, base station corrected, IGRF corrected, heading corrected, lag corrected, simple leveled, and microleveled (optional) total field.
- Database and channel descriptions file in Excel format
- Weekly and Line Progress report

## **9. TIME SCHEDULE**

The project is scheduled to start at the end of June or beginning of July 2011. In any event, NSG will require 2 to 3 weeks after the signing of the contract in order to make equipment and staff available and insure successful permitting.



## **10. TERMINATION**

In the event that the geophysical platform or equipment becomes inoperable, NSG will proceed with diligence to rectify the problem within a reasonable period of time. If within the aforementioned period of time NSG fails to rectify the problem, the Client may, at their discretion, terminate the work under this Proposal in full or in part. In the event of such termination, the Client shall be obliged to pay NSG for services rendered only up to the date of receipt of a written notice of such termination and for documented expenses incurred by NSG prior to the date of receipt of termination notice, and for reasonable cancellation and demobilization costs.

## **11. LOCAL LICENSES, PERMITS AND CUSTOMS**

Client will take the responsibility for obtaining all local licenses and permits required to perform the services. Out of pocket costs for permitting will be reimbursed by the client.

## 12. CHARGES

Betty/Bridget Block: Survey and Map Production*	CAD \$49.78 L/KM
Hen Block: Survey and Map Production*	CAD \$67.42 L/KM
Wolf Block: Survey and Map Production*	CAD \$84.50 L/KM
Mobilization/De-mobilization to project:	CAD \$ 9,500.00

There will be no standby charge for the first four days when surveying cannot be accomplished due to any reason outside control of NSG. A standby of \$1,350.00/day will be charged for all consequent standby days.

*Note:* These prices are net of all local taxes (e.g., GST or HST if applicable).

\* The line km rate is based on the condition that client provides jet fuel for the helicopter, reasonable accommodation, meals, and communication at the Coffee creek camp (597,300E / 6,977,400N WGS84, UTM Zone 7N).

### **13. GENERAL CONDITIONS**

NSG will carry out the agreed services in a proper and workmanlike manner with a high standard of safety and in accordance with the laws, rules and regulations applicable to the project location.

At all times during the term of this Proposal, the NSG or its subcontractors shall carry and maintain at its own expense, work insurance protection of the kinds and in the minimum amounts set forth below:

#### **13.1 NSG Liability Insurance**

- Employer's Liability and Workmen's Compensation insurance to cover employees furnished by NSG including:
  - (a) Statutory Workmen's Compensation benefits in compliance with the laws of the state, province or country in which the aircraft operations under this Proposal will be performed;
  - (b) Employer's Liability to have limits of not less than \$5,000,000 per person, and \$5,000,000 per accident;
  - (c) Employer's Liability applicable to all provisions outlined above with limits not less than \$5,000,000 each person, \$5,000,000 each occurrence.
- Comprehensive General Liability Insurance. Such insurance shall cover all operations in all provinces, states and countries in which the aircraft operation or services may be performed by NSG hereunder and shall include the following:
  - (a) Limits of liability: not less than \$5,000,000 for death or injury of any one person, \$5,000,000 in the aggregate for all persons injured or killed as the result of any one accident, and \$5,000,000 for loss of or damage to property resulting from any one accident.
  - (b) Contractual liability coverage for NSG's obligations hereunder;

## 14. PAYMENT TERMS

Total estimated cost:

Mobilization/De-mobilization to project:	CAD\$ 9,500.00
<u>Betty/Bridget block</u> Survey and Map Production: (~7,218 Km @ \$ 49.78 L/Km)	CAD\$ 359,312.04 L/KM
<u>Hen block</u> Survey and Map Production: (~1,207 Km @ \$ 67.42 L/Km)	CAD\$ 81,375.94 L/KM
<u>Wolf block</u> Survey and Map Production: (~548 Km @ \$ 84.50 L/Km)	CAD\$ 46,306.00 L/KM
Estimated Total:	CAD\$ 496,493.98

Note: These prices are net of all local taxes; client provides jet fuel for the helicopter, accommodation, meals and communication at the Coffee creek camp site.

### Payment Schedule

An initial payment, due on signing:	20% of selected survey Plan price
A second payment, on the mobilization to the job site:	30% of selected survey Plan price
Third payment, due on completion of flying:	40% of selected survey Plan price
On delivery of final maps and reports:	Balance

Note: These prices are net of all local taxes.

All invoices are due and payable upon submission at the Client's address indicated in Section 1 of this Survey Agreement. A service charge of 0.4 % per week on unpaid balance is payable on all overdue accounts.

The payment schedule is subject to negotiation should the proposed schedule not conform to the client's norms and regulations.

Funds will be paid by wire transfer to:

In CAD Funds

Beneficiary: New-Sense Geophysics Limited  
Bank: The Bank of Nova Scotia  
Account #: 02011  
Transit #: 11452  
Institution Code: 002  
Swift: NOSCCATT  
ABA Routing: 026002532  
Address: 880 Eglinton Avenue E. at Laird Drive  
Toronto, Ontario, M4G 2L2, Canada

NEW-SENSE GEOPHYSICS

ETHOS CAPITAL CORP.

Name (print): Andrei Yakovenko

Name (print): Peter Tallman

Title: V.P. Operations

Title: Chief Operating Officer

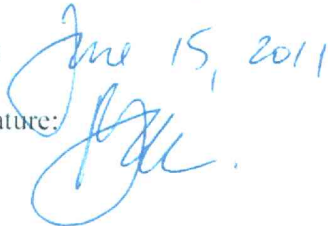
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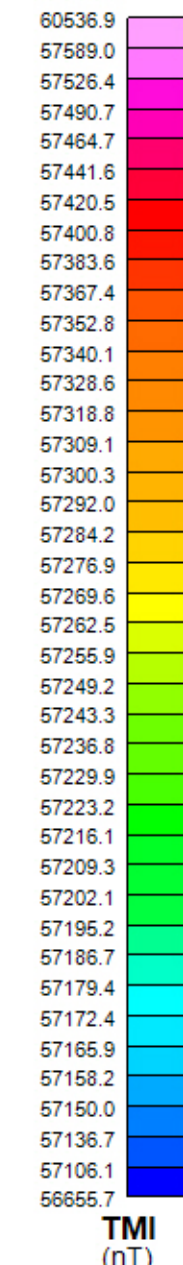
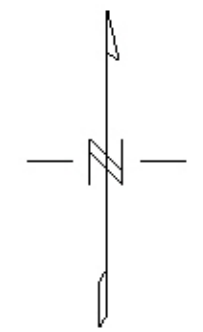
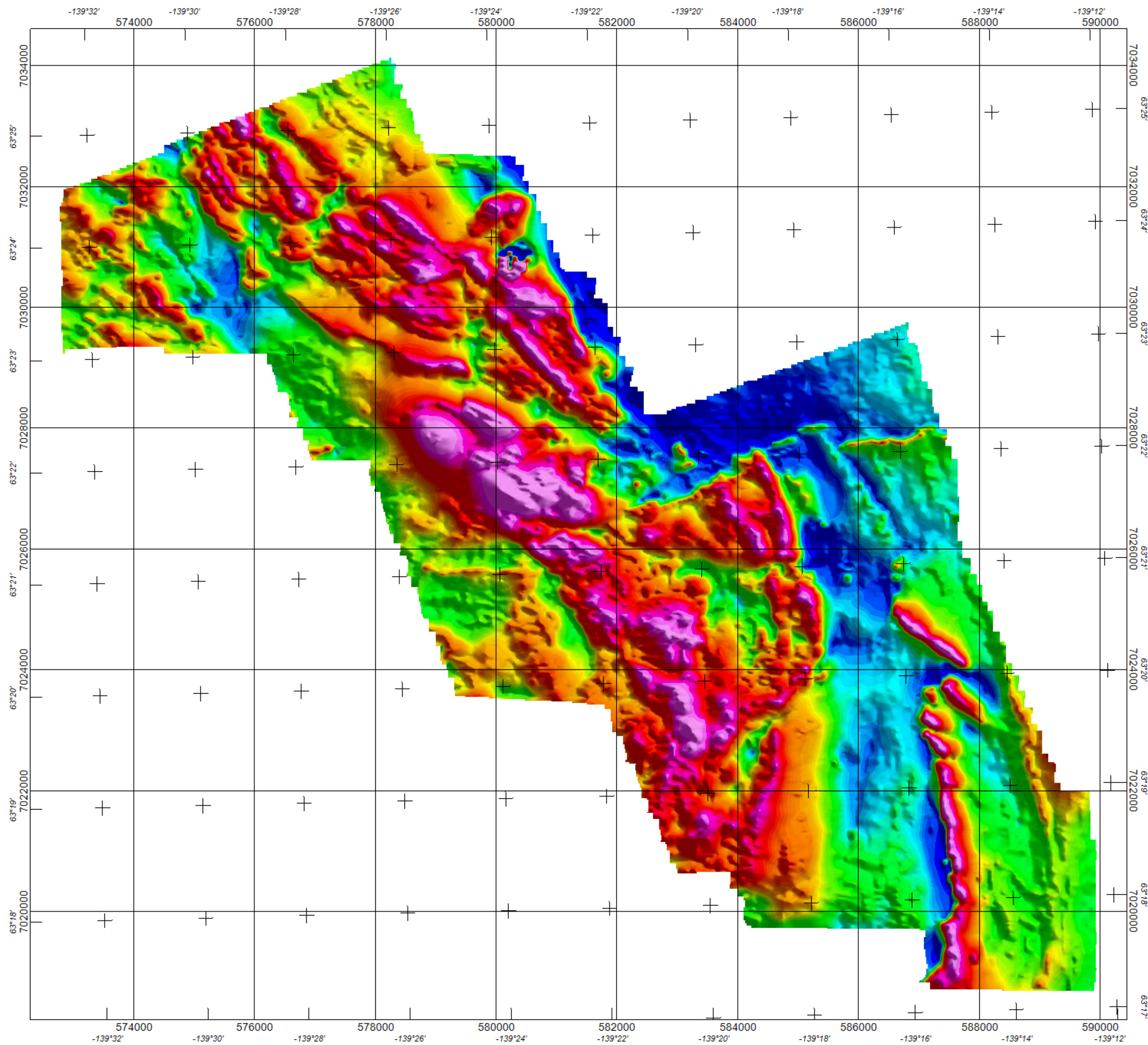
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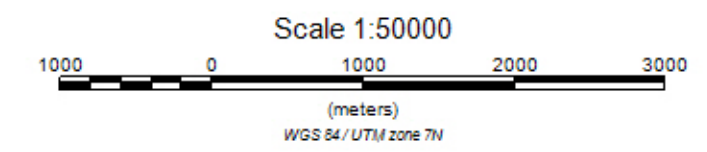
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TMI  
(nT)



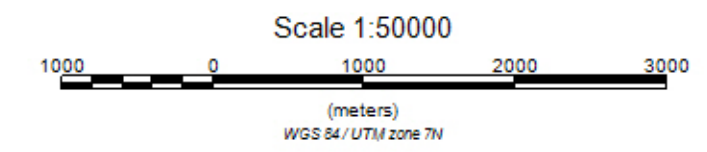
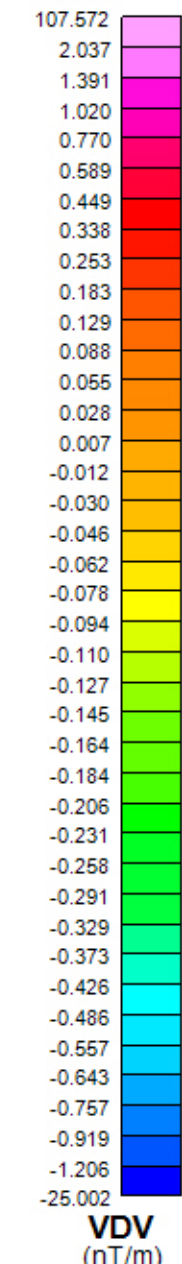
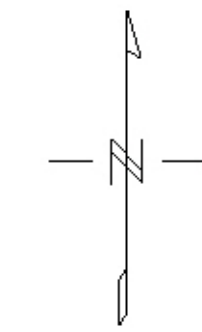
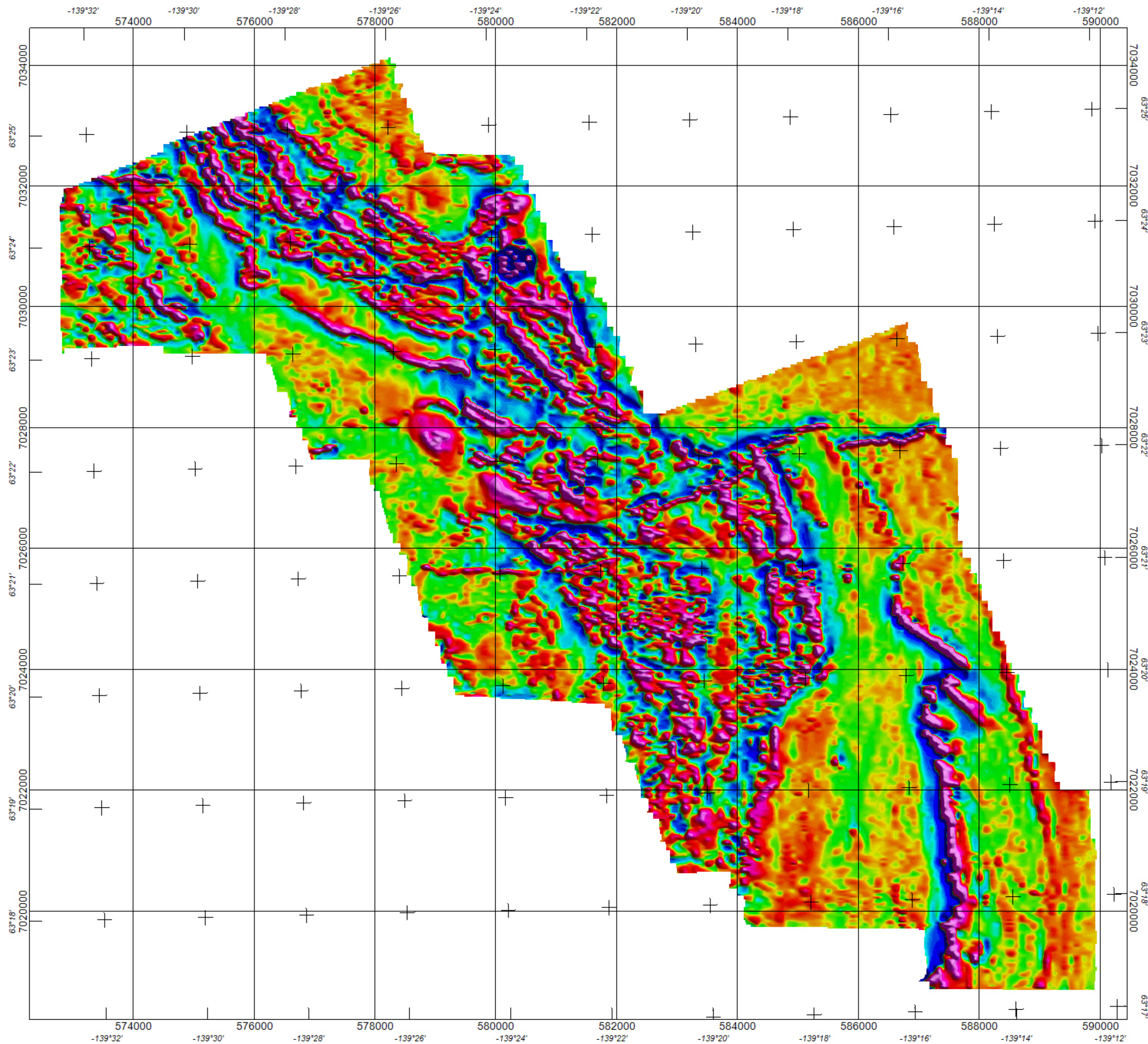
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 Spline Across Line: Akima  
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Line Spacing/Direction  
 Traverse Lines: 100m; 0/180 deg. from true north;  
 Control Lines: 1000m; 90/270 deg. from true north

Average Sample Interval: 3.6 m/sample (10Hz);  
 Average Sensor Height From Ground: 43 m

<b>ETHOS CAPITAL CORP.</b>
<b>Helicopter Borne Aeromagnetic and Spectrometric Survey Hen Block Total Magnetic Intensity (TMI) Map</b>
Dates Flown: July 8 - August 12, 2011
<b>New-Sense Geophysics Ltd.</b>





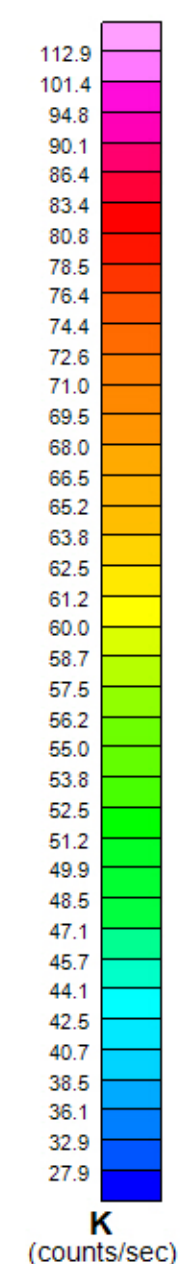
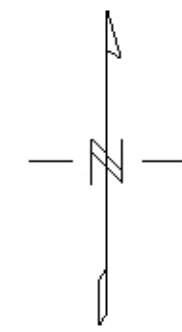
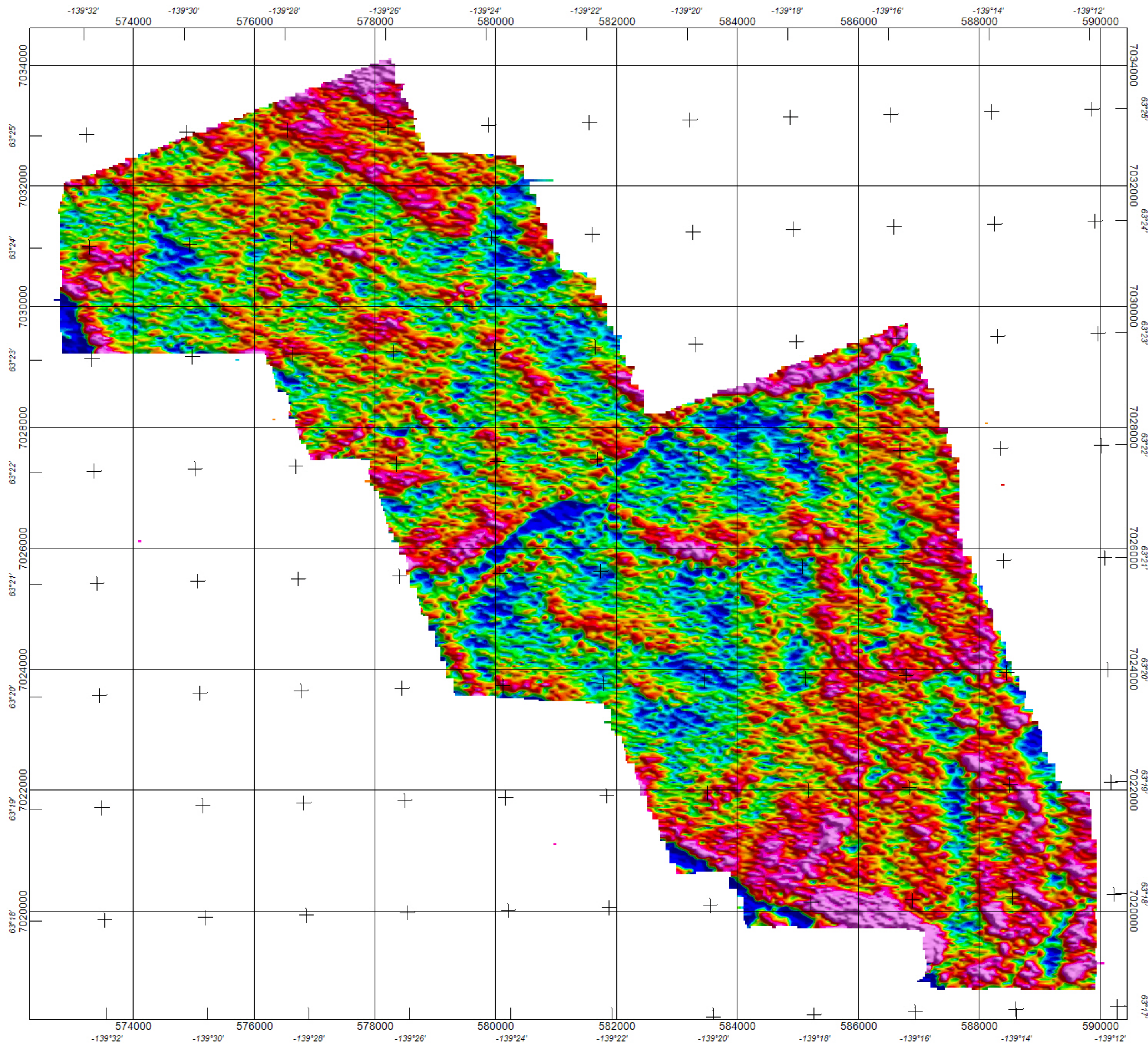
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Line Spacing/Direction  
 Traverse Lines: 100m; 0/180 deg. from true north;  
 Control Lines: 1000m; 90/270 deg. from true north

Average Sample Interval: 3.6 m/sample (10Hz);  
 Average Sensor Height From Ground: 43 m

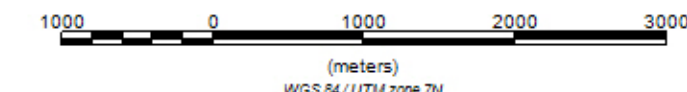
<b>ETHOS CAPITAL CORP.</b> <b>Helicopter Borne Aeromagnetic and Spectrometric Survey</b> <b>Hen Block</b> <b>1st Order Vertical Derivative (VDV) Map</b>
Dates Flown: July 8 - August 12, 2011
<b>New-Sense Geophysics Ltd.</b>





**K**  
(counts/sec)

Scale 1:50000



(meters)  
WGS 84 / UTM zone 7N

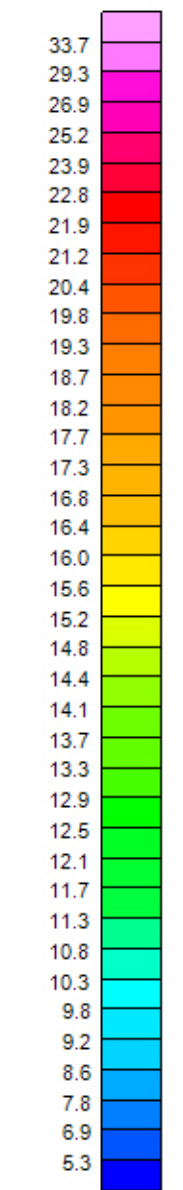
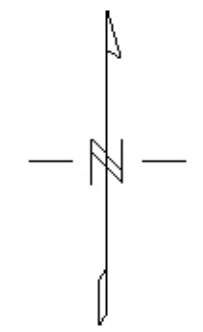
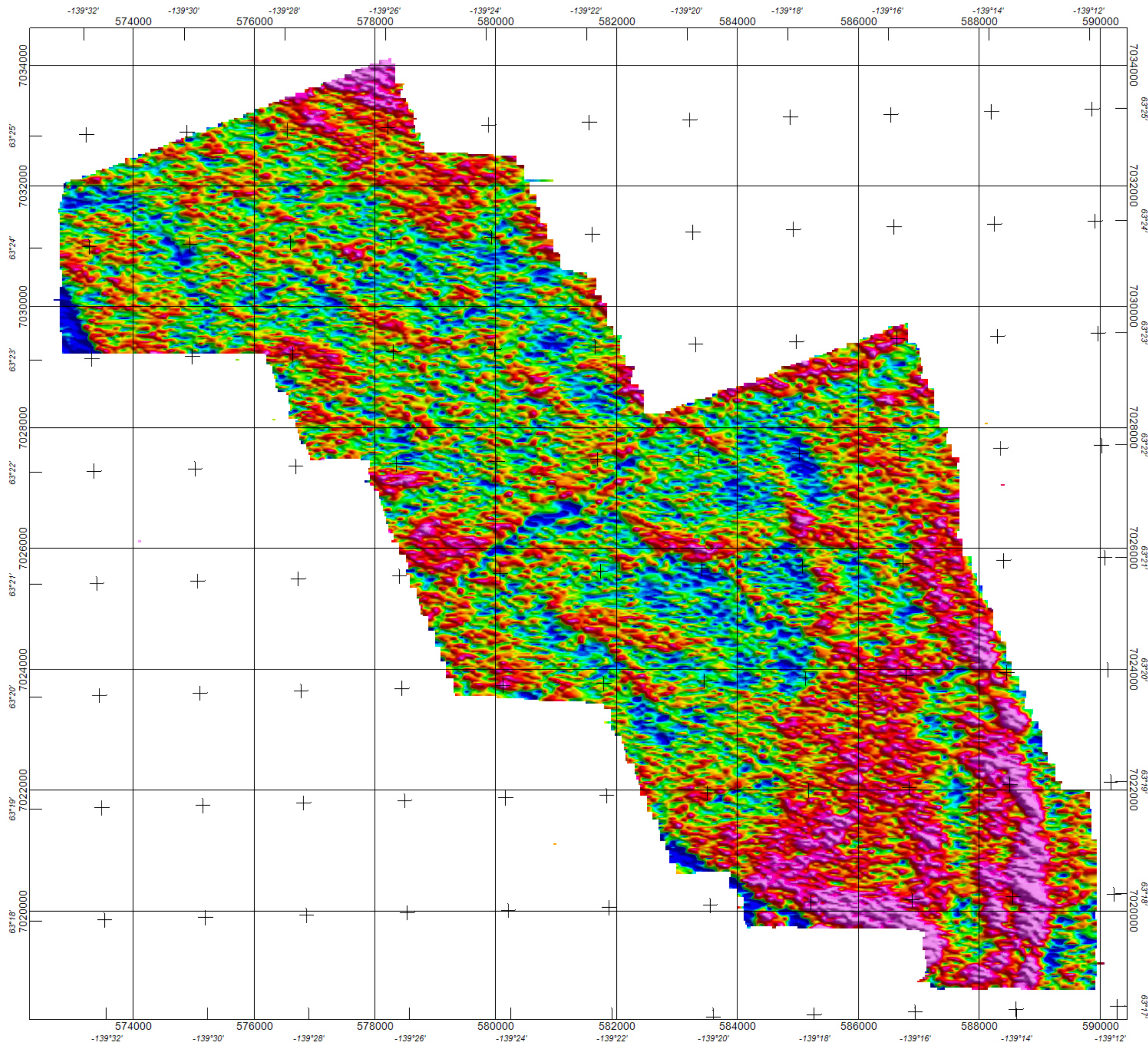
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Line Spacing/Direction  
 Traverse Lines: 100m; 0/180 deg. from true north;  
 Control Lines: 1000m; 90/270 deg. from true north

Average Sample Interval: 36 m/sample (1Hz);  
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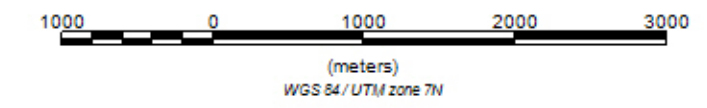
<b>ETHOS CAPITAL CORP.</b>
<b>Helicopter Borne Aeromagnetic and Spectrometric Survey Hen Block Potassium (K) Map</b>
Dates Flown: July 8 - August 12, 2011
<b>New-Sense Geophysics Ltd.</b>





Th  
(counts/sec)

Scale 1:50000



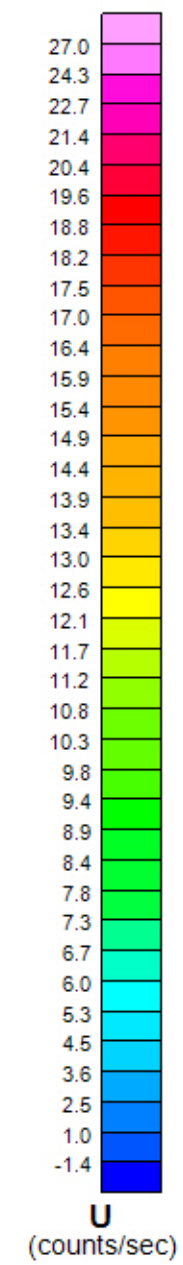
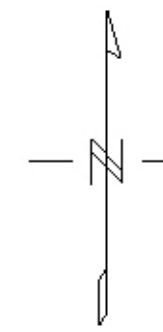
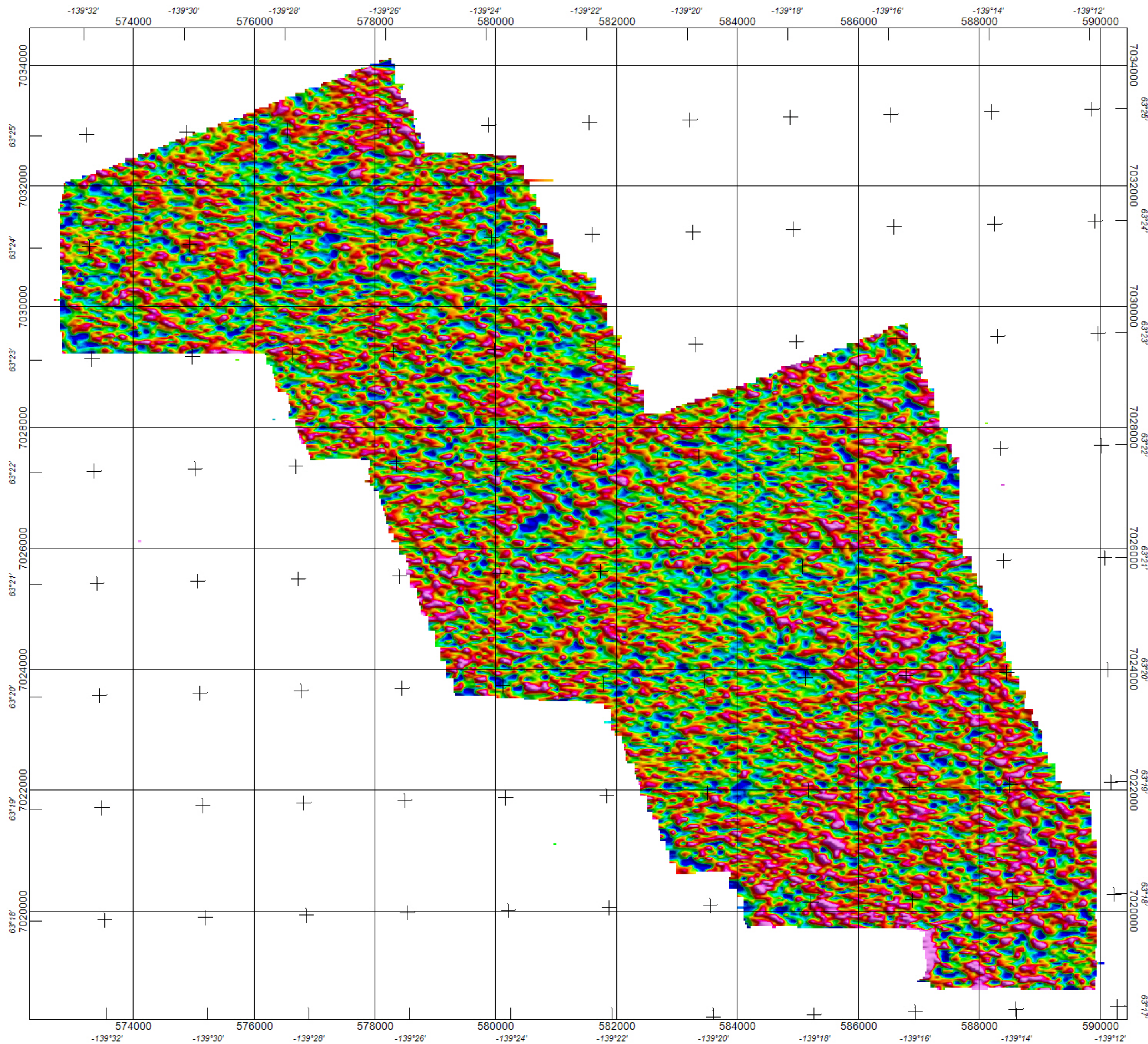
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Line Spacing/Direction  
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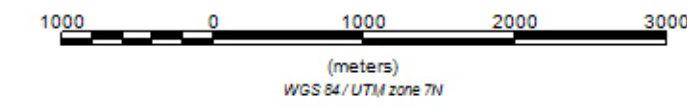
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<b>ETHOS CAPITAL CORP.</b>
<b>Helicopter Borne Aeromagnetic and Spectrometric Survey Hen Block Thorium (Th) Map</b>
Dates Flown: July 8 - August 12, 2011
<b>New-Sense Geophysics Ltd.</b>





Scale 1:50000



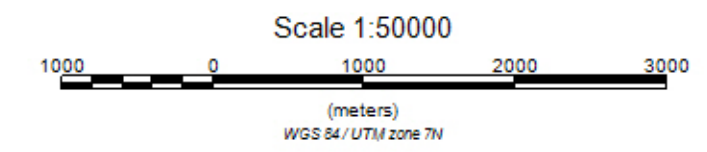
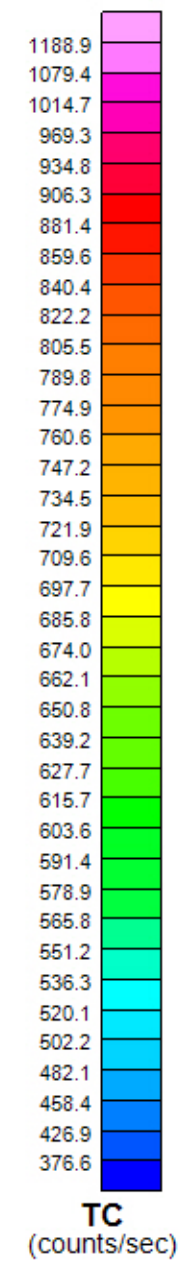
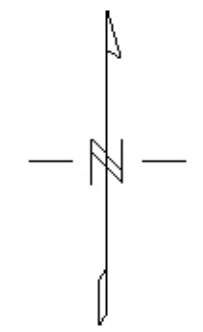
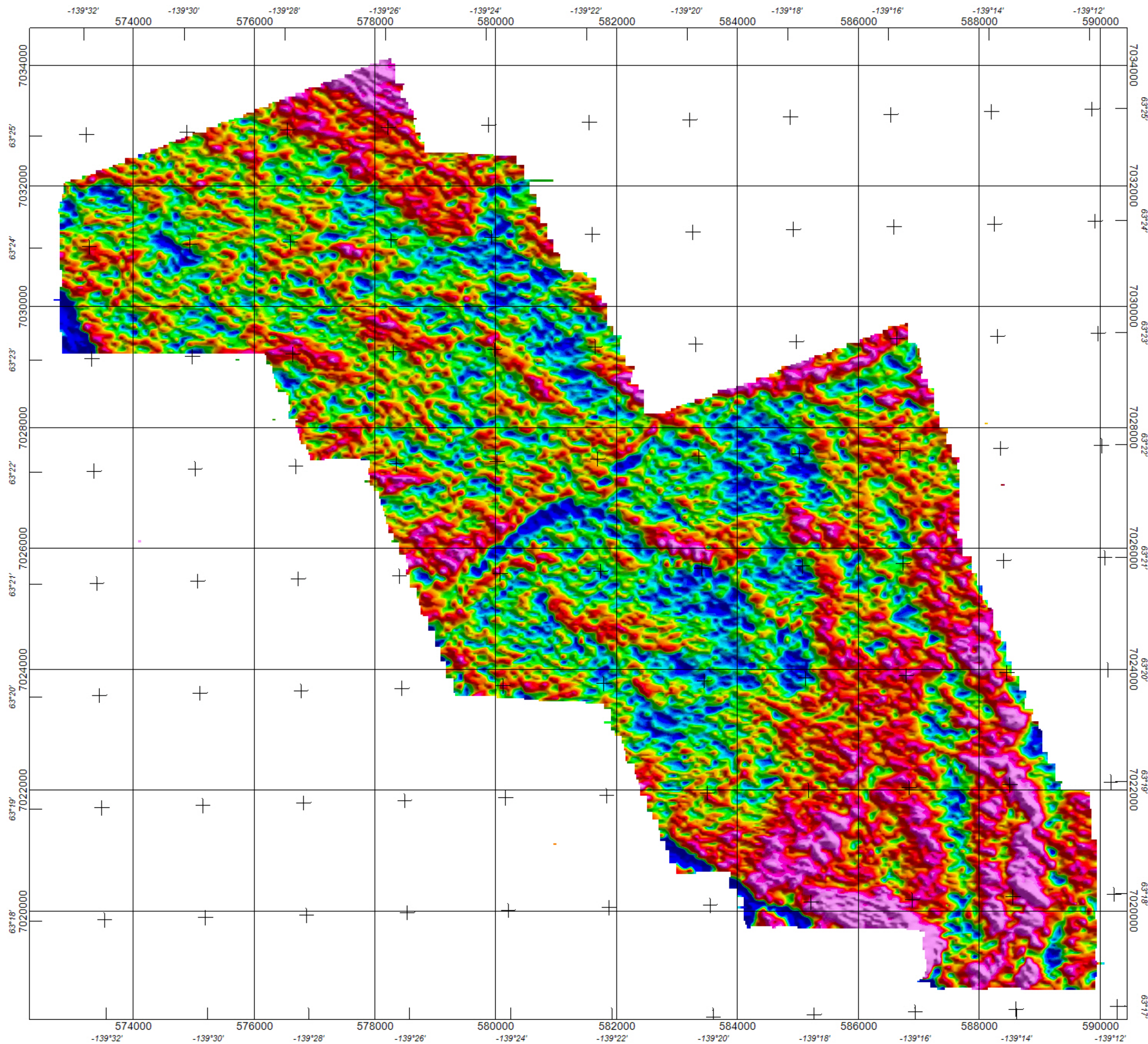
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Line Spacing/Direction  
 Traverse Lines: 100m; 0/180 deg. from true north;  
 Control Lines: 1000m; 90/270 deg. from true north

Average Sample Interval: 36 m/sample (1Hz);  
 Average Sensor Height From Ground: 43 m

<b>ETHOS CAPITAL CORP.</b>
<b>Helicopter Borne Aeromagnetic and Spectrometric Survey Hen Block Uranium (U) Map</b>
Dates Flown: July 8 - August 12, 2011
<b>New-Sense Geophysics Ltd.</b>





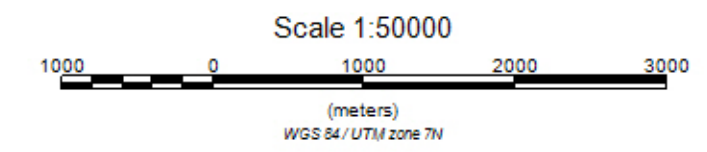
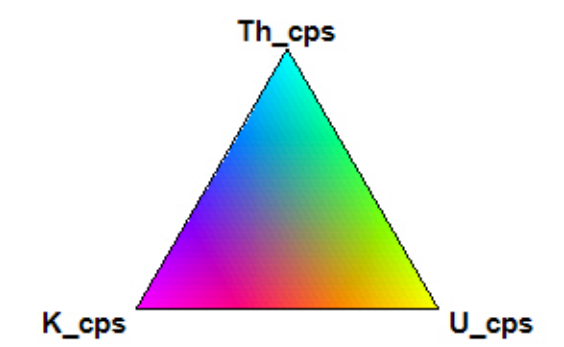
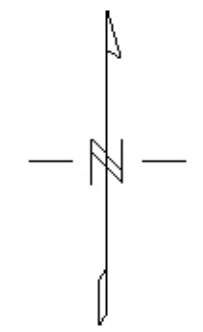
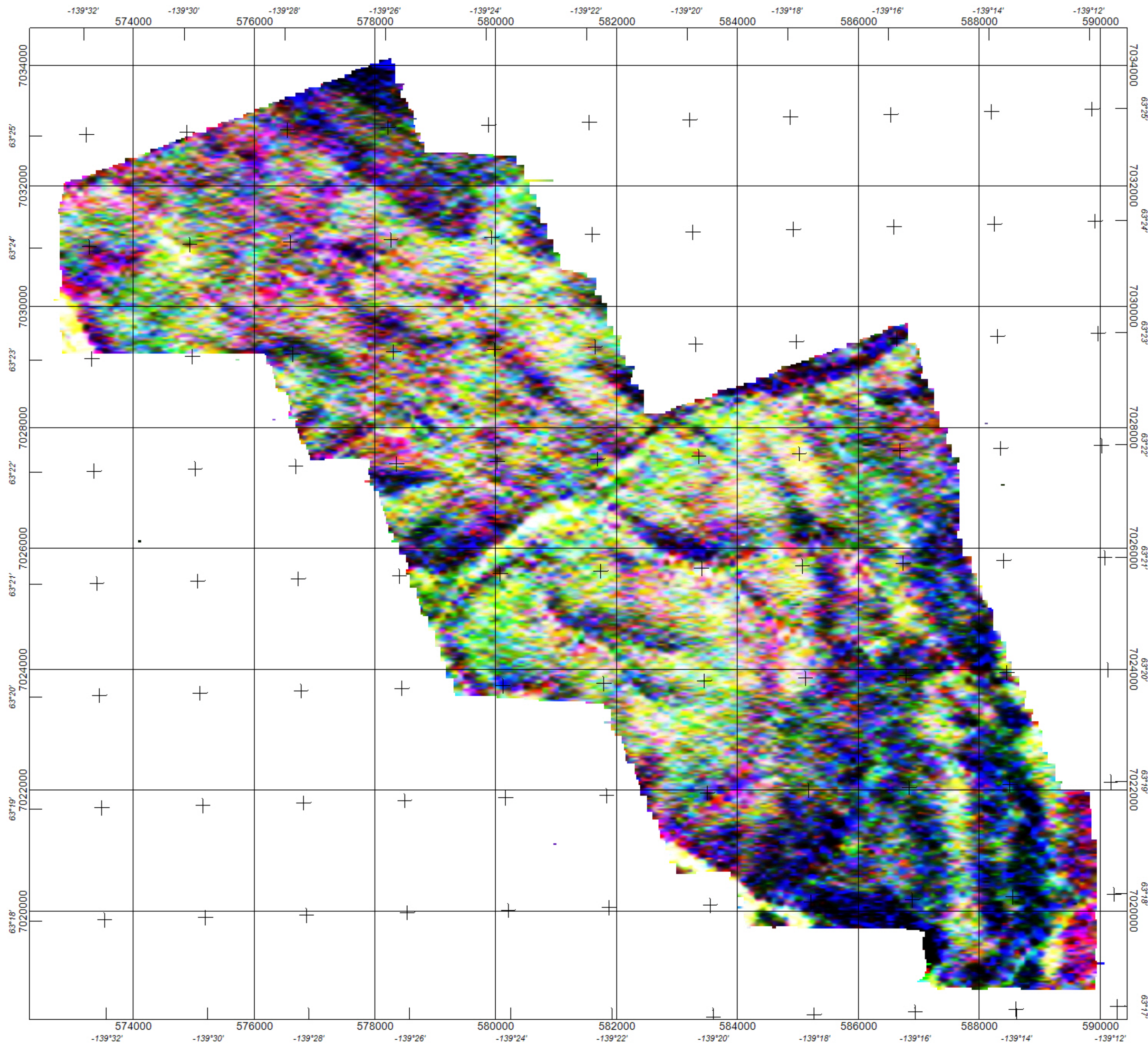
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Line Spacing/Direction  
 Traverse Lines: 100m; 0/180 deg. from true north;  
 Control Lines: 1000m; 90/270 deg. from true north

Average Sample Interval: 36 m/sample (1Hz);  
 Average Sensor Height From Ground: 43 m

<b>ETHOS CAPITAL CORP.</b>
<b>Helicopter Borne Aeromagnetic and Spectrometric Survey Hen Block Total Count (TC) Map</b>
Dates Flown: July 8 - August 12, 2011
<b>New-Sense Geophysics Ltd.</b>





**Grid Info**  
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 Trend Angle (deg. CCW from X): 0

**Line Spacing/Direction**  
 Traverse Lines: 100m; 0/180 deg. from true north;  
 Control Lines: 1000m; 90/270 deg. from true north

Average Sample Interval: 36 m/sample (1Hz);  
 Average Sensor Height From Ground: 43 m

<b>ETHOS CAPITAL CORP.</b>
<b>Helicopter Borne Aeromagnetic and Spectrometric Survey Hen Block Ternary Map</b>
Dates Flown: July 8 - August 12, 2011
<b>New-Sense Geophysics Ltd.</b>