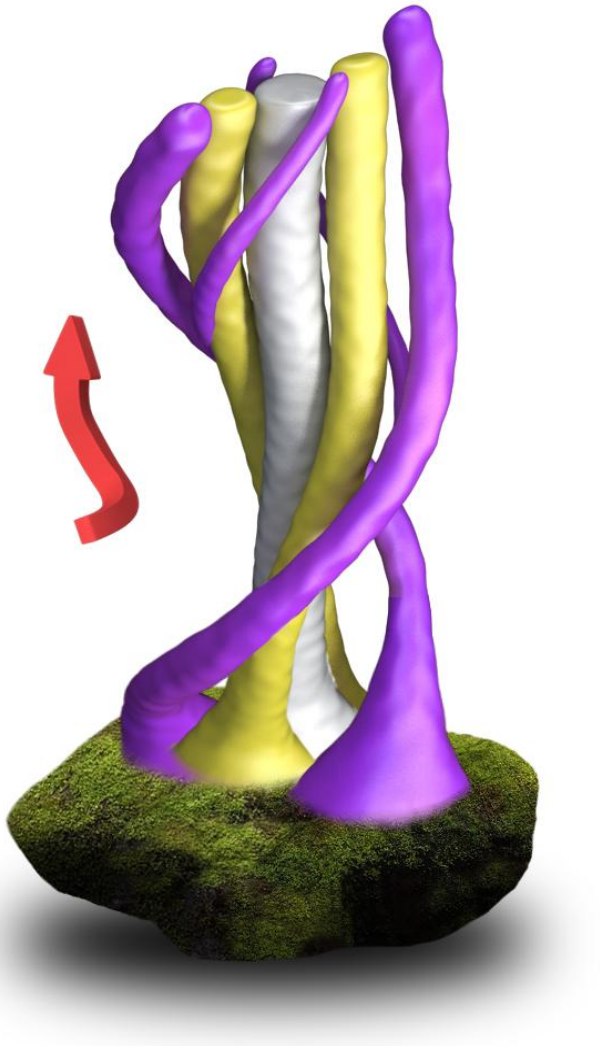
3D - SGH

"A SPATIALTEMPORAL GEOCHEMICAL HYDROCARBON INTERPRETATION"

GOLDSTREAM EXPLORATION LTD.

PAG-G2 PROJECT



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SGH – SOIL GAS HYDROCARBON
Predictive Geochemistry

for

GOLDSTREAM EXPLORATION LTD.

PAG-G2 PROJECT

September 17, 2013

** Dale Sutherland,*

Activation Laboratories Ltd

(- author, originator)*

"SUPPLEMENTARY INTERPRETATION"

EVALUATION OF SAMPLES

DATA EXPLORATION FOR: "SILVER" TARGETS

SGH SILVER TEMPLATE USED FOR THIS REPORT

Workorder: A13-07703

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PREFACE

THIS "STANDARD" SGH INTERPRETATION REPORT:

The purpose of this Soil Gas Hydrocarbon (SGH) interpretation "Standard Report" is to ensure that clients and other potential reviewers of the results have a good understanding of this organic, deep penetrating geochemistry. As SGH provides such a large data set and is not interpreted in the same way as inorganic geochemistries, this interpretation and report enables the user to realize the results in a timely fashion and capitalizes on years of research and development since the inception of SGH in 1976 combined with the knowledge obtained by Activation Laboratories through the interpretation of SGH data from over hundreds of surveys for a wide variety of target types in various lithologies from many geographical locations. Although referenced today as a "nano-technology", the analysis of SGH has not changed since inception. The report is compulsory as it is the only known organic geochemistry that, in spite of the name, uses non-gaseous semi-volatile organic compounds interpreted using a forensic signature approach It is based solely on SGH data and does not include the consideration or interpretation from any other geochemistry (inorganic), geology, or geophysics that may exist related to this survey area(s). This report can also provide evidence of project maintenance. To keep the price to a minimum and to provide as short a turnaround time as practically possible, usually only one SGH Pathfinder Class map is illustrated in a "Standard Report" with an applied interpretation although several other SGH Pathfinder Class maps are used and referenced. Definitions of certain terms or phrases used in this report can be found in Appendix A. A Supplemental Report and/or interpretations for other target types are available. A GIS package of georeferenced images is also available. (See Appendix H)

The interpretation in this report has used the results from some of the research with SGH in recent years which has focused on the potential that the SGH data might be able to further dissect and understand the relationships between the chemical Redox conditions in the overburden the development of an electrochemical cell and its affect in shaping geochemical anomalies. This research has resulted in the development by Activation Laboratories of a new enhanced model of the Electrochemical/ Redox Cell theory originated by Govett (1976) that was further developed to the model by Hamilton (2004, 2009). The new enhanced model developed by Sutherland (2011) takes the general anomalies expected by the Hamilton model to a higher level of detail and specificity. This has resulted in a more confident level of interpretation which has been referenced as 3D-SGH or **3D-"Spatiotemporal Geochemical Hydrocarbons**. This model has been formally introduced at the International Applied Geochemistry Symposium (IAGS) organized by The Association of Applied Geochemists that took place in Rovaniemi, Finland, in August 2011. This new level of understanding of the expected anomaly types that can be observed with SGH provides a new level of quality control in the interpretation process as the symmetry of SGH anomalies can assure the interpreter which anomalies are as a result of a buried target. With the enhanced 3D-SGH interpretation that was introduced in 2012, we also mark the beginning of the ability to make some statements regarding the possible depth to mineralization for some projects as we dissect the Redox cell relative to the new Electrochemical Cell theory. The cover of this report is an artist's rendering of the pathways of different classes of Spatiotemporal Geochemical Hydrocarbons which migrate through the overburden. This model is used as the new 3D-SGH interpretation approach.

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DISCLAIMER

This "SGH Interpretation Report" has been prepared to assist the user in understanding the development and capabilities of this Organic based Geochemistry. The interpretation of the Soil Gas Hydrocarbon (SGH) data is in reference to a template or group of SGH classes of compounds specific to a type of mineralization or target that is chosen by the client (i.e. the template for gold, copper, VMS, uranium, etc.). The various templates of SGH Pathfinder Classes that together define the forensic identification signature for a wide range of commodity target types; Gold, Nickel, VMS, SEDEX, Uranium, Cu-Ni-PGE, IOCG, Base Metal, Tungsten, Lithium, Polymetallic, and Copper, as well as for Kimberlites, Coal Seam, Wet Gas and Oil Play, have been developed through years of research and have been further refined from review of case studies and orientation studies has proven to be able to also address a wide range of lithologies. Even with 15+ years of development and experience with SGH, Activation Laboratories Ltd. cannot guarantee that the templates used are applicable to every type of target in every type of environment. The interpretation in this report attempts to identify an anomaly that has the best SGH signature in the survey for the type of mineralization or target chosen by the client. However, this interpretation is not exhaustive and there may be additional SGH anomalies that may warrant interest. It should not be viewed due to the generation of this SGH report, that Activation Laboratories Ltd. has the expertise or is in the business of interpreting any type of geochemical data as a general service. As the author is the originator of the SGH geochemistry, has researched and developed this exploration tool since 1996, and has produced similar interpretations using SGH data for close to 1,000 surveys, he is perhaps the best qualified to prepare this interpretation as assistance to clients wishing to use this SGH geochemistry. Activation Laboratories Ltd. can offer assistance in general suggestions for sampling protocols and in sample grid design; however we accept no responsibility to the appropriateness of the samples taken. Activation Laboratories Ltd. has made every attempt to ensure the accuracy and reliability of the information provided in this report. Activation Laboratories Ltd. or its employees do not accept any responsibility or liability for the accuracy, content, completeness, legality, or reliability of the information or description of processes contained in this report. The information is provided "as is" without a guarantee of any kind in the interpretation or use of the results of the SGH geochemistry. The client or user accepts all risks and responsibility for losses, damages, costs and other consequences resulting directly or indirectly from using any information or material contained in this report or using data from the associated spreadsheet of results.

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Cautionary Note Regarding Assumptions and Forward Looking Statements

The statements and target rating made in the Soil Gas Hydrocarbon (SGH) interpretive report or in other communications may contain or imply certain forward-looking information related to the quality of a target or SGH anomaly.

Statements related to the rating of a target are based on comparison of the SGH signatures derived by Activation Laboratories Ltd. through previous research on known case studies. The rating is not derived from any statistics or other formula. The rating is a subjective value on a scale of 0 to 6 relative to the similarity of the SGH signature reviewed compared to the results of previous scientific research and case studies based on the analysis of surficial samples over known ore bodies. No information on other geochemistries, geophysics, or geology is usually available as additional information for the interpretation and assignment of a rating value unless otherwise stated. The rating does not imply ore grade and is not to be used in mineral resource estimate calculations. References to the rating should be viewed as forward-looking statements to the extent that it involves a subjective comparison to known SGH case studies. As with other geochemistries, the implied rating and anticipated target characteristics may be different than that actually encountered if the target is drilled tested or the property developed.

Activation Laboratories Ltd. may also make a scientifically based reference in this interpretive report to an area that might be used as a drill target. Usually the nearest sample is identified as an approximation to a "possible drill target" location. This is based only on SGH results and is to be regarded as a guide based on the current state of this science.

Unless otherwise stated, Activation Laboratories Ltd. has not physically observed the exploration site and has no prior knowledge of any site description or details or previous test results. Actlabs makes general recommendations for sampling and shipping of samples. Unless stated, the laboratory does not witness sampling, does not take into consideration the specific sampling procedures used, or factors such as the season of sampling, samples handling, packaging, or shipping methods. The majority of the time, Activation Laboratories Ltd. has had no input into sampling survey design. Where specified Activation Laboratories Ltd. may not have conducted sample preparation procedures as it may have been conducted at the client's assigned laboratory external to Actlabs. Although Actlabs has attempted to identify important factors that could cause actual actions, events or results to differ scientifically which may impact the associated interpretation and target rating from those described in forward-looking statements, there may be other factors that cause actions, events or results that are not anticipated, estimated or intended.

In general, any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions, future events or performance are not statements of historical fact. These "scientifically based educated theories" should be viewed as "forward-looking statements".

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Readers of this interpretive report are cautioned not to place undue reliance on forward-looking information. Forward looking statements are made based on scientific beliefs, estimates and opinions on the date the statements are made and the interpretive report issued. The Company undertakes no obligation to update forward-looking statements or otherwise revise previous reports if these beliefs, estimates and opinions, future scientific developments, other new information, or other circumstances should change that may affect the analytical results, rating, or interpretation.

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SOIL GAS HYDROCARBON (SGH) GEOCHEMISTRY – OVERVIEW

In the search for minerals and elements, geology requires tools to assess the location and potential quantity of minerals and ores. In the past people looked at the landscape to find the deposit. Similar landscapes indicate similar mineral and metal deposits. This is searching on a macro level, while geochemistry is searching on a micro level. Organic material requires many minerals and elements, so organic materials can be biomarker of the present of the minerals and elements.

SGH is a deep penetrating geochemistry that involves the analysis of surficial samples from over potential mineral or petroleum targets. The analysis involves the testing for 162 hydrocarbon compounds in the C5-C17 carbon series range applicable to a wide variety of sample types. The hydrocarbons are residues from the decomposition of bacteria and microbe that feed on the target commodity as they require inorganic metallic's to catalyze the reactions necessary to develop hydrocarbons and grow in their life cycle. Specific classes of hydrocarbons (SGH) have been successful for delineating targets found at over 900 metres in depth. Samples of various media have been successfully analyzed such as soil (any horizon), sand, till, drill core, rock, peat, humus, lake-bottom sediments and even snow. After preparation in the laboratory, the SGH analysis incorporates a very weak leach, essentially aqueous, that only extracts the surficial bound hydrocarbon compounds and those compounds in interstitial spaces around the sample particles. These are the hydrocarbons that have been mobilized from the target depth. SGH is unique and should not be confused with other hydrocarbon tests or traditional analyses that measure C1 (Methane) to C5 (Pentane) or other gases. Thus, in spite of the name, SGH does not analyze for any hydrocarbons that are actually gaseous at room temperature and can be used to analyze for hydrocarbons in sample types other than soil. SGH is also different from soil hydrocarbon tests that thermally extracts or desorbs all of the hydrocarbons from the whole soil sample. This test is less specific as it does not separate the hydrocarbons and thus does not identify or measure the responses as precisely. These tests also do not use a forensic approach to identification. The hydrocarbons in the SGH extract are separated by high resolution capillary column gas chromatography and then detected by mass spectrometry to isolate, confirm, and measure the presence of only the individual hydrocarbons that have been found to be of interest from initial research and development and from performance testing especially from the two Canadian Mining Industry Research Organization (CAMIRO) projects (97E04 and 01E02).

Over the past 15+ years of research, Activation Laboratories Ltd. has developed an in-depth understanding of the unique SGH signatures associated with different commodity targets. Using a forensic approach we have developed target signatures or templates for identification, and the understanding of the expected geochromatography that is exhibited by each class of SGH compounds. In 2004 we began to include an SGH interpretation report delivered with the data to enable our clients to realize the complete value and understanding of the SGH results in the shortest time frame and provide the benefit from past research sponsored by Actlabs, CAMIRO, OMET and other industrial sponsors. In 2011, a new model of Electrochemical/Redox Cell theory was proposed and the new 3D-SGH interpretation approach based on this theory was incorporated in 2012 on a routine basis for SGH interpretation reports.

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SGH has attracted the attention of a large number of Exploration companies. In the above mentioned research projects the sponsors have included (in no order): Western Mining Corporation, BHP-Billiton, Inco, Noranda, Outokumpu, Xstrata, Cameco, Cominco, Rio Algom, Alberta Geological Survey, Ontario Geological Survey, Manitoba Geological Survey and OMET. Further, beyond this research, Activation Laboratories Ltd. has interpreted the SGH data for over 700 targets from clients since January of 2004. In both CAMIRO research projects over known mineralization and in exploration projects over unknown targets, SGH has performed exceptionally well. As an example, in the first CAMIRO research project that commenced in 1997 (Project 97E04), there were 10 study areas that were submitted blindly to Actlabs. These study sites were selected since other inorganic geochemistries were unsuccessful at illustrating anomalies related to the target.

Although Actlabs was only provided with the samples and their coordinates, SGH was able to locate the blind mineralization with exceptional accuracy in 9 of the 10 surveys. In 2007, SGH has recently been very successful in exploration and discovery of unknown targets e.g. Golden Band Resources drilled an SGH anomaly and discovered a significant vein containing "visible" gold. (www.goldenbandresources.com)

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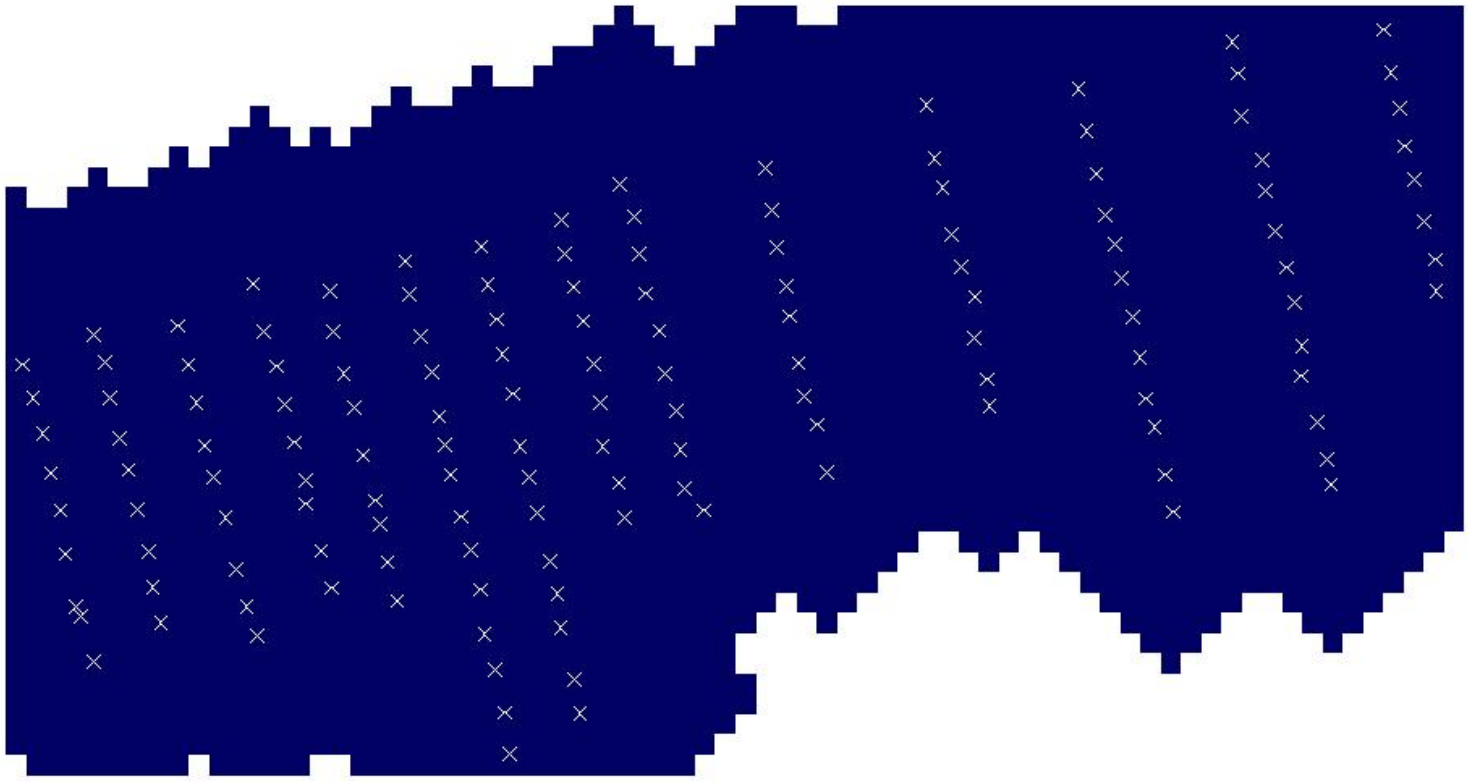
INTERPRETATION OF SGH RESULTS
A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT

SAMPLE SURVEY INTERPRETATION

This report is based on the SGH results from the analysis of a total of 146 samples. The PAG-G2 project area is described by a survey containing fourteen parallel north-south trending transects that are about 50 metres apart on the west side and 100 metres apart on the east side of the grid with samples spaced at about 25 metres along each transect. Sample coordinates were provided for mapping of the SGH results for these samples as UTM NAD83 – Zone 16N datum coordinates. A sample location map is shown below.

SGH SURVEY- SGH PAG-G2 PROJECT SAMPLE LOCATION MAP



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SGH SURVEY INTERPRETATION
A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT

Note that the associated SGH results are presented in a separate Excel spreadsheet. This data is semi-quantitative and is presented in units of pg/g or *parts-per-trillion* (ppt) as the concentration of specific hydrocarbons in the sample. The number of samples submitted for this survey is adequate to use SGH as an exploration tool. As SGH is an organic geochemistry it is essentially "blind" to the elemental presence of any inorganic species as actual metallic gold, silver, uranium, etc. content in the each sample analyzed. SGH has been proven to discriminate between false or mobilized soil anomalies and is able to actually locate the source target deposition. SGH is a deep-penetrating geochemistry and has been proven to locate Gold, Silver, and other types of mineralization at several hundred metres below the surface irrespective of the type of overburden. Note that the SGH data is only reviewed for the particular target deposit type requested, in this case for the presence of Silver targets. It is also initially assumed that there is only one potential target. If known, in surveys with several complex geophysical targets, to obtain the best interpretation the client should indicate that there are possibly multiple targets. The possibility of multiple geophysical targets should be known due to potential overlap and the increased complexity of resulting geochromatographic anomalies, which could alter the interpretation as to which targets are mineralized and which ones are not.

The overall precision of the SGH analysis for the samples at the PAG-G2 Project was excellent as demonstrated by 10 different samples taken from this survey which were used for laboratory replicate analysis. The average Coefficient of Variation (%CV) of the replicate results for the survey samples in this submission was 4.4% which represents an excellent level of analytical performance especially at such low parts-per-trillion concentrations.

The performance of 4 field duplicates identified in this survey was 4.8% CV. This is representative of the average value usually observed for field duplicates in the SGH analysis. It is typically observed that the variability of field duplicates are 5% to 8% CV higher than for laboratory duplicates of random samples taken from the survey. In comparison to other geochemistry's this is excellent performance. The typical excellent level of performance is due to the specificity of the SGH geochemistry as the method only targets relatively rare hydrocarbons that have been proven to be associated with mineralization, in this case for VMS. The SGH geochemistry does not detect all organic hydrocarbons present in the samples.

No other statistics were used on the data for this report for mapping or interpretation purposes aside from the use of a Kriging trending algorithm in the GeoSoft Oasis Montaj mapping software. **This interpretation is based only on the SGH results from this submission for the PAG-G2 Project.** A template or group of SGH Pathfinder Classes that have been found to be associated with buried Silver targets are used as the basis for the interpretation of the PAG-G2 Project. The final interpretation is customized and conducted by the author. Although the term "template" or "signature" often appears in an SGH Interpretation Report, a computerized interpretation is not used.

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A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT SGH INTERPRETATION - SGH SILVER PATHFINDER CLASS MAP

The map that is shown in plan and in 3D views in this report are SGH "Pathfinder Class maps" for targeting various hydrocarbon flux signatures related to Silver targets. This map represents the simple summation of several individual hydrocarbon compound concentrations that are grouped from within the same organic chemical class. SGH Pathfinder Class maps have been shown to be robust as they are each described using from 4 to 14 (unless otherwise stated) chemically related SGH compounds which are simply summed to create each class map. Thus each map has a higher level of confidence as it is not illustrating just one compound measurement. A legend of the compound classes appears at the bottom of the SGH data spreadsheet.

The Silver template of SGH Pathfinder Classes uses low and medium molecular weight classes of hydrocarbon compounds. At least three Pathfinder Class maps, associated with the SGH signature developed for Silver must be present to begin to be considered for assignment of a good rating relative to the SGH performance in case studies over known Silver type mineralization. These SGH classes must also concur and support a consistent interpretation in relation to the expected geochromatographic characteristics of the Pathfinder Class. The *overall* SGH interpretation Rating has even a higher level of confidence as it further implies the consensus between at least two additional pathfinder classes. A combination of these SGH Pathfinder Classes potentially defines the signature of a target at depth if present. Each of the SGH Pathfinder Class maps shown in this report is a specific *portion* of the SGH signature relative to the presence of Silver. Each pathfinder class map is still just one of the Pathfinder Class maps used in each of the interpretation templates (other SGH Pathfinder Class maps are usually not shown at this price point and report turnaround time except at the discretion of the Author). Additional interpretation information which may contain additional SGH Pathfinder Class maps is available as a Supplementary Report at an additional price (see Appendix H).

SGH has been described by the Ontario Geological Survey of Canada (OGS) as a "Redox cell locator". Many SGH surveys for Silver and other mineral targets can result in multiple types of anomalies, depending on the class of SGH compounds, even over the same target and in the same set of samples. Thus "Apical", "Segmented-Nested-Halo", and "Rabbit-Ear" or "Segmented Halo" type anomalies are all typically observed within the SGH data set from the effect of Redox cells that have developed over mineralization or specific target types. Redox cells are also related to the presence of bacteriological activity and the presence of geological bodies such as Granite Gneiss, Dunite, etc. Recently SGH has been shown to be far more sensitive to depicting Redox conditions than any measurements using pH or ORP tests. Thus it is important to understand that; not only is SGH a Redox cell locator, due to the forensic signature of mineralization used in the interpretation process, SGH can discriminate mineral targets and other target types from geological bodies and other magnetically detected targets, mineralized versus non-mineralized conductors, cultural effects, etc. even in surveys over highly difficult or exotic terrain that results in the collection of multiple sample types.

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A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT SGH INTERPRETATION SGH SILVER PATHFINDER CLASS MAP

Note that any concentration value in the accompanying Excel spreadsheet greater than the "Reporting Limit" of 1 ppt is important data and has been able to depict mineralization at depth. The majority of the variability or noise has already been eliminated; additional filtering will adversely affect any interpretation. Note that a Kriging trending algorithm has been applied to the mapping routine in the Geosoft Oasis Montaj software in the development of the SGH Class maps. SGH concentrations are in some way probably related to the amount of mineralization present and the grade of mineralization, which probably defines the characteristics of the biofilm(s) in contact with the deposit, as well as being related to the depth to mineralization. SGH results have also been shown to correlate well with geophysical anomalies such as magnetic anomalies and those of CSAMT.

SGH is a "deep penetrating" geochemistry but also works well for relatively shallow targets. Targets shallower than about 3 to 5 metres will have a reduced SGH signal due to interaction with atmospheric conditions and samples taken right at surface outcrops will have even weaker signals due to a higher degree of weathering from various processes on these volatile and semi-volatile organic hydrocarbons.

One of the less known characteristics of this SGH geochemistry is that the anomalies have been shown several times to be unaffected by physical processes that usually cause drift to anomalies or sometimes called transported anomalies. As the SGH hydrocarbons are relatively neutral in charge or polarity, and are heavier in molecular weight (i.e. as they are not gases), they are unaffected by the slope of the terrain, effects of water table, etc. Only the lightest molecular weight SGH classes have shown any sign of deflection from illustrating a vertical projection when there is a major fault present. Although this may deflect the bulls-eye effect of these classes, the high amount of symmetry of heavier and thus none deflected classes can geometrically find the bulls-eye vertical projection of mineralization that can aid in decisions of drill targeting. Most importantly, in northern climates like that found in Canada, SGH has been shown to be completely resistant to transport by glacial drift.

Note, under no circumstances should SGH results be confused with assays. SGH is an excellent geochemistry to vector to, locate and identify the presence of blind mineralization. However, it is logical that the better identified and delineated a mineralized area is, the higher the possibly of finding some significant quantity of mineralization. Also, it is expected that well defined and identified mineralization is most likely to be at a relatively shallow depth. This varies with the SGH mineralization template used.

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SGH INTERPRETATION RATING AND CLARIFICATION

Often the use of a geochemistry such as SGH is used as an economical exploration investigation tool to provide more information on an exploration target as some geological body or geophysical target. Such occurrences are in general expected to change the chemistry of the immediate overburden which in turn is expected to result in a chemical anomaly as detected in surficial samples. The author believes that it is important to convey to the client of an anomaly even if it is only a part of the mineral signature or template requested. The anomaly illustrated in the report may not be representative of the mineralization sought as only a part of the SGH signature is present, but the anomaly may confirm the presence of the geological or geophysical target which may be valuable to the client. In addition it would confirm the ability and sensitivity of SGH to show geological or geophysical occurrences. Example: A well defined rabbit-ear anomaly on the SGH Pathfinder Class map in a report, even though it may have a lower rating of 2.0 or 3.0, may illustrate to the exploration geologist that SGH does agree that there is some geological body at depth that is changing the chemistry and forming a Redox cell in the overburden. However the SGH forensic signature Rating indicates that there is a lower confidence that the "identification" of that body is likely to be say Silver (if the SGH Silver template is requested). This information would provide a confirmation that a target does exist, however if the SGH Rating indicates that the target has a lower level of confidence then the target does not have the forensic signature of the mineralization sought. SGH would thus provide a savings to the exploration program and divert focus to potentially other targets having a higher confidence in the identification Rating.

Thus, the SGH rating must always be considered in conjunction with the SGH Pathfinder Class map shown in the report. It is this rating that provides an insight into the authors' complete interpretation and is a measure of the confidence and to what degree the complete SGH signature compares with the SGH results from over case studies of similar known deposits. Unfortunately, the interpretation of a visual, as the SGH map provided, is so ingrained in humans that the reader may erroneously disregard the author's subjective rating to a large degree. As of November 25, 2011, the author now highlights the rating directly on the page having the plan view of the SGH Pathfinder Class map chosen to be illustrated. Thus to the reader of the report, the authors Rating is actually **MORE IMPORTANT** than the readers instinctive interpretation of the one map provided. Again, SGH should not be used in isolation from other site information, and that a Rating of 4.0 is when, in the authors' estimation, a signature only starts to have a good identification relative to that type of mineralization, and that the survey may warrant further study although it is not a specific recommendation to drill test the anomaly. As the SGH interpretation is represented by a signature, the SGH Pathfinder Class map(s) illustrated in reports is always only "PART" of the specific SGH signature or template that the client requests (i.e. for Gold, Silver, Nickel, etc.). No one SGH map can represent the complete signature due to the different amounts of spatial dispersion expected for the variety of SGH chemical classes within each signature. Thus the author selects the one SGH Class Map relative to the mineralization requested that best represents an anomaly that estimates the overall signature found in the survey.

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SGH SUPPLEMENTARY INTERPRETATION

As this is a Supplementary Interpretation as the second interpretation of the SGH data associated with the PAG-G2 survey, please refer to the report on this survey area as produced on August 12, 2013 that contains more background description and appendices of information regarding the Soil Gas Hydrocarbon (SGH) geochemistry.

As a general comment in regard to the SGH results at this PAG-G2 Project, the interpretation was definitive in the interpretation for the presence of Gold as there were multiple SGH Gold Pathfinder Class maps that provided a significant amount of confirmatory evidence to the interpretation shown again on page 19 which was originally presented in the report of August 12, 2013. The SGH anomalies detected were of fairly-good strength and contrast for each SGH Class maps and were of typical strength for Northern Ontario. This enabled good comparison of those SGH hydrocarbon classes that have been proven to be pathfinders relative to the presence of Redox cells and the interpretation of the pathfinders in this report that have been associated with the SGH signature for "buried or blind" Silver targets. The SGH Silver Pathfinder Class shown on page 17 and other SGH Classes associated with Silver together illustrate the presence of a series of anomalies common to the anomalies observed that have been associated with Gold mineralization. The SGH hydrocarbon signature is the detection of those hydrocarbon residues produced by the decomposition of bacteria in the death phase that have been feeding on Silver based material. These residues as concentrations of specific hydrocarbon compounds have subsequently migrated to the surface as a flux of different chemical classes of hydrocarbons. During migration to the surface, dispersion away from the mineralization is expected and the distance of dispersion is dependent more on the average molecular weight of the class, or the depth of the target, than the complexity of the overburden. The migration paths of the SGH Classes as a rule are not affected by complex or exotic overburden. The deflection of the hydrocarbon flux is encountered only when in the direct proximity of major faults or shear zones.

This report illustrates an SGH Silver Pathfinder Class map on page 17 in plan view and on page 18 in 3D view that is a portion of the SGH signature associated with Silver. In the interpretation of this class we are typically looking for an apical response that fits within a Redox cell if the mineralization is relatively shallow. The interpretation is somewhat similar to that for Gold as several SGH Classes used in the interpretation for the observation of Silver targets are also a small part of the SGH signature associated with Gold targets. At the PAG-G2 project the SGH Pathfinder Class map on page 17 illustrates that the anomalies are very similar to the ones observed for Gold. Under these particular conditions we expect that the SGH signature for Gold is more compelling. The SGH interpretation for the presence of Redox conditions in the overburden, previously shown for the interpretation of Gold, has also been placed on the map on page 17 for easy reference. Two small areas to the north of the previously interpreted Gold targets may be isolated areas of silver zonation. There may also be coincident silver mineralization directly with the zones of gold mineralization previously interpreted.

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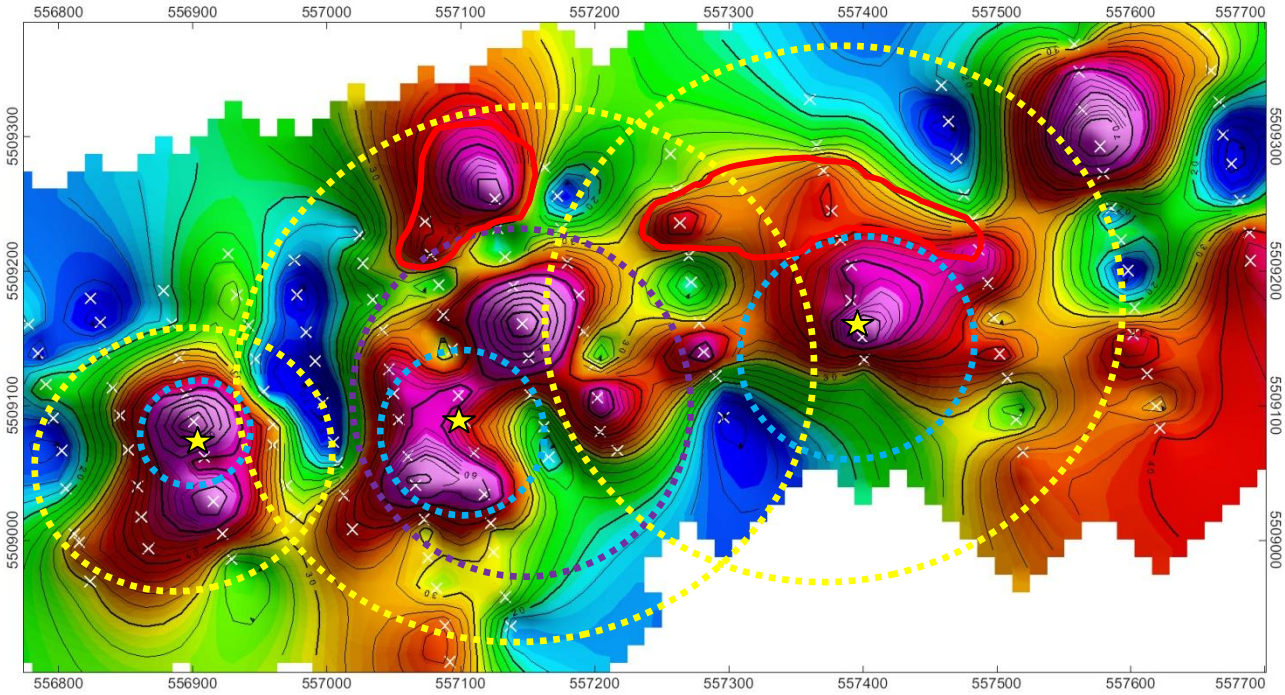
SGH "SILVER" PATHFINDER CLASS MAP



POSSIBLE REDOX ZONES – YELLOW, BLACK AND BLUE DOTTED OVALS
YELLOW STARS = MOST CONFIDENT DRILL TARGETS FOR GOLD AS A VERTICAL PROJECTION

RED OUTLINED AREAS MAY INDICATE SOME ISOLATED ZONATION OF SILVER MINERALIZATION
SGH SIGNATURE RATING RELATIVE TO "SILVER TARGET" = 2.5 OF 6.0

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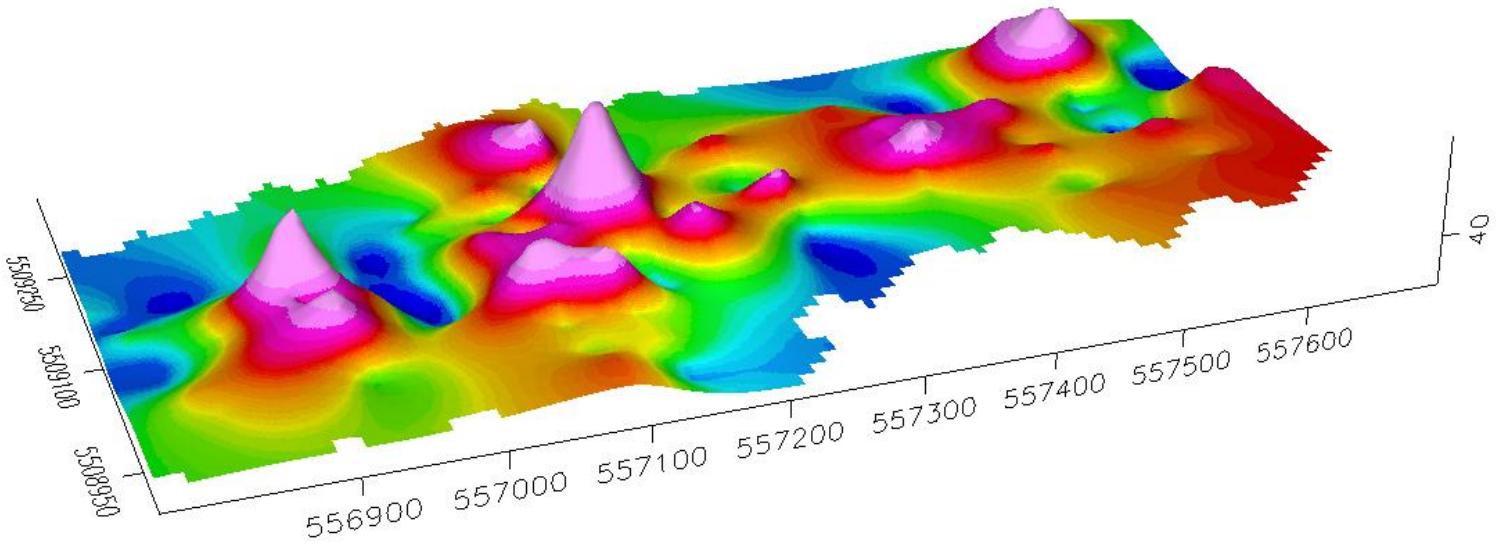
SGH "SILVER" PATHFINDER CLASS MAP



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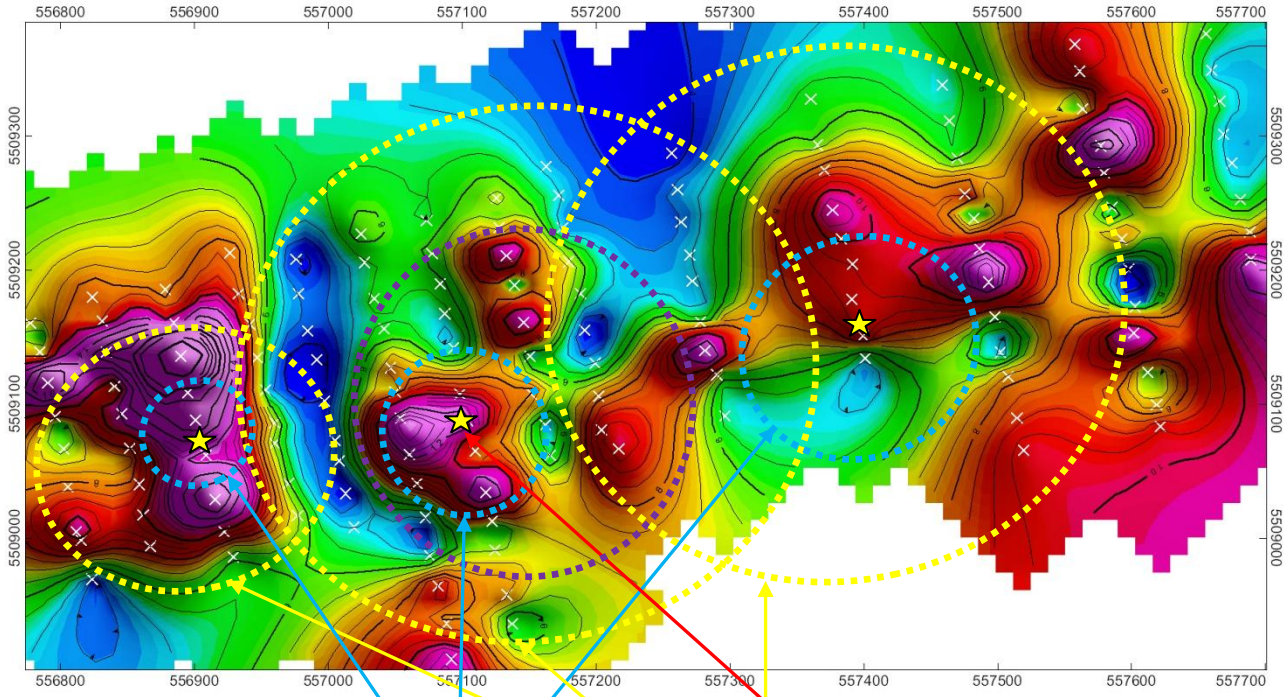
SGH "GOLD" PATHFINDER CLASS MAP



POSSIBLE REDOX ZONES – PODS A, B, and C HAVING SGH-GOLD SIGNATURE
3D-SGH PREDICTED GOLD ZONES MOST CONFIDENT DRILL TARGETS AS A VERTICAL PROJECTION
SGH SIGNATURE RATING RELATIVE TO "GOLD TARGET" = 5.5 OF 6.0

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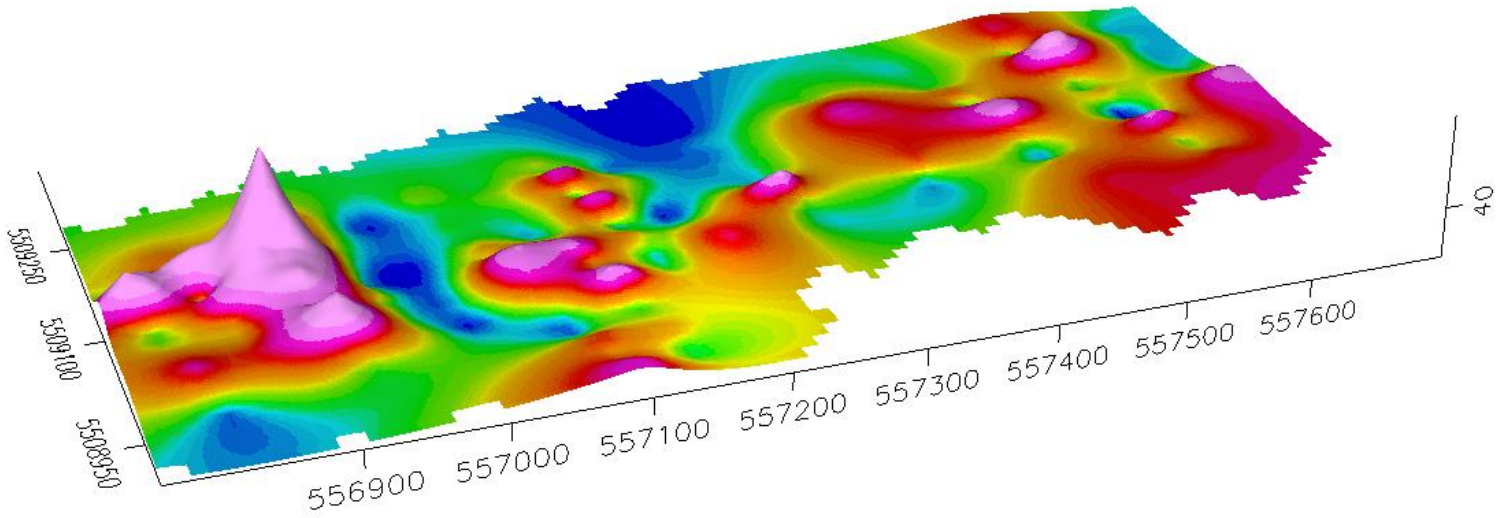
SGH "GOLD" PATHFINDER CLASS MAP



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A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT SGH INTERPRETATION FOR SILVER

The interpretation of the SGH data relative to the presence of Silver targets at the PAG-G2 Project area is described by what appears to be the presence of two small areas of possibly isolated silver mineralization (within the red outlined zones) to the north of the gold mineralization previously interpreted. Other SGH Class maps (not shown) that have been associated with silver mineralization lend some support to the interpretation of these two zones. It is possible that some of the anomalies from the SGH Silver Pathfinder Class on page 17 that is coincident with the SGH Gold Pathfinder Class anomalies shown on page 19 may represent a blend of mineralization. As it is judged that the SGH Gold interpretation is more compelling in this area the SGH rating for the area within the two northern zones within the red outlines has been reduced significantly to a value of 2.5 from a maximum of 6.0. As this is a relative low SGH Rating for the Signature of Silver mineralization a drill target has not been assigned. Thus, after review of all of the SGH Class maps, the SGH results from PAG-G2 Project suggests a **"rating of 2.5"** out of a possible 6.0 (6.0 being the best) for each of the two zones having a red outline on page 17, as the confidence in predicting that Silver mineralization may be present at the PAG-G2 project.

The rating shown in this and all SGH reports are based on a scale of 6.0, in 0.5 increments, with a value of 6.0 being the best. The rating discussed in relation to Silver targets represents the similarity of these SGH results with other SGH case studies over known Silver targets. The SGH signature or template has since been further enhanced since inception and has been proven effective from the interpretation over many other surveys in many different geographical regions and for a wide variety of lithologies of Silver. Again, the degree of confidence in the rating only starts to be "good" at a level of 4.0. A Rating of 4.0 is an indication that the SGH geochemistry predicts that the zone described may warrant more work or more consideration.

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A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT SGH SURVEY RECOMMENDATIONS

In general, additional survey boundary extensions or infill sampling to add to the survey area is not recommended as the SGH Rating, as a rating of confidence in the interpretation for Silver mineralization is not very compelling in comparison to the SGH Gold mineralization at the PAG-G2 project. If additional sampling is considered to potentially gain some additional confidence in the SGH Gold interpretation, please refer to the general recommendations for additional or in-fill sampling for SGH in the next section if this is considered.

The identification of a drill target is not an explicit recommendation by Activation Laboratories Ltd. to drill test the associated location or SGH anomaly. A drill target is implied to ensure that the reader is aware of the location having the highest confidence of being the location of the vertical projection of the mineralization, based only on SGH data. This is also not a recommendation for vertical drilling. Vertical drilling may not be the best approach to test the SGH anomaly in this area. Activation Laboratories Ltd. has no experience in actual exploration drilling techniques. Other geological, geochemical and/or geophysical information should also be considered.

It must be remembered that many other SGH Class maps not shown in this report have been reviewed to support the interpretation shown. The client should use a combination of the SGH results shown in this report with additional geochemical, geophysical, and geological information to possibly obtain a more confident and precise target location. This is not a statement to convey some lower level of confidence in SGH results. This statement is made to recognize the proper use and interpretation of any scientific data. Whenever possible, multiple methods should always be employed so that any decisions do not rely on any one technique.

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GENERAL RECOMMENDATIONS FOR ADDITIONAL OR IN-FILL SAMPLING FOR SGH ANALYSIS

Based on the results of this report and/or other information, the client may decide that in-fill sampling may be warranted. To obtain the best results from additional sampling for SGH it is recommended that sample locations from the original survey within, or bordering, the area of interest be re-sampled rather than just combining new sample results with the sample data from the initial survey. Although several SGH surveys have previously been easily and directly, combined without data leveling, it cannot be guaranteed that data leveling will not be required. It has been found that data leveling is more apt to be required should the new samples be collected under significantly different environmental conditions than during the initial sample survey, i.e. summer collection versus winter collection. The process of data leveling adds a minimum of 3 to 5 days of work to conduct the additional data evaluation, develop additional plots of the results, conduct new interpretations, and in additional report descriptions. Results from data leveling is also always considered "an approximation", thus the confidence in a combined interpretation will be lower that the interpretation from samples collected during one excursion to the field and submitted as one survey. An additional cost will be invoiced should data leveling operations be required if the client requests that two SGH data sets be interpreted and reported together. Thus re-sampling a few of the original sample locations will provide a faster turnaround time for results and provide more accurate and confident surveys for evaluation and aid in deciding specific drill targets.

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Date Received at Actlabs Geraldton: July 8, 2013

Date Received at Actlabs Ancaster: July 12, 2013

Date Analyzed: July 24-29, 2013

Interpretation Report for SGH Gold Signature: August 12, 2013

Interpretation Report for SGH Silver Signature: September 17, 2013

GOLDSTREAM EXPLORATION LTD.

Suite 1510, 141 Adelaide Street West
Toronto, Ontario, M5H 3L5
Canada

Attention: Paul Dunbar, M.Sc., P.Geo. Vice President Exploration

RE: Your Reference: PAG-G2 PROJECT

Activation Laboratories Workorder: A13-07703

CERTIFICATE OF ANALYSIS

This Certificate applies to the associated Excel Spreadsheet of Hydrocarbon results combined with the discussion and SGH Pathfinder Class maps of the data shown in this report.

146 Samples were analyzed for this submission.

Sample preparation – Code S4 – Drying at 40°C and Sieving with -60 mesh collected

A supplemental interpretation relative to Silver targets was requested.

The following analytical package was requested and analyzed at Actlabs Ancaster Canada:

Analysis Code SGH – Soil Gas Hydrocarbon Geochemistry using High Resolution Gas Chromatography/Mass Spectrometry (HRGC/MS)

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REPORT/WORKORDER: A13-07703

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at the time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of the material submitted for analysis.

Notes: The SGH – Soil Gas Hydrocarbon Geochemistry is a semi-quantitative analytical procedure to detect and measure 162 hydrocarbon compounds as the organic signature in the sample material collected from a survey area. It is not an assay of mineralization but is a predictive geochemical tool used for exploration. This certificate pertains only to the SGH data presented in the associated Microsoft Excel spreadsheet of results.

The author of this SGH Interpretation Report, Mr. Dale Sutherland, is the creator of the SGH and OSG organic geochemistry's. He is a Chartered Chemist (C.Chem.) and Forensic Scientist specializing in organic chemistry. He is a member of the Association of the Chemical Profession of Ontario, the Association of Applied Geochemists, the International Association of GeoChemistry, the Ontario Prospectors Association, the Association for Mineral Exploration British Columbia, the Geochemical Society Association, and the Ontario Petroleum institute as well as having memberships in several national and international Forensic associations. He is not a professional geologist.

CERTIFIED BY:

Dale Sutherland, B.Sc.,B.Sc.,B.Ed.,C.Chem.,MCIC
Forensic Scientist, Organics Manager,
Director of Research
Activation Laboratories Ltd.

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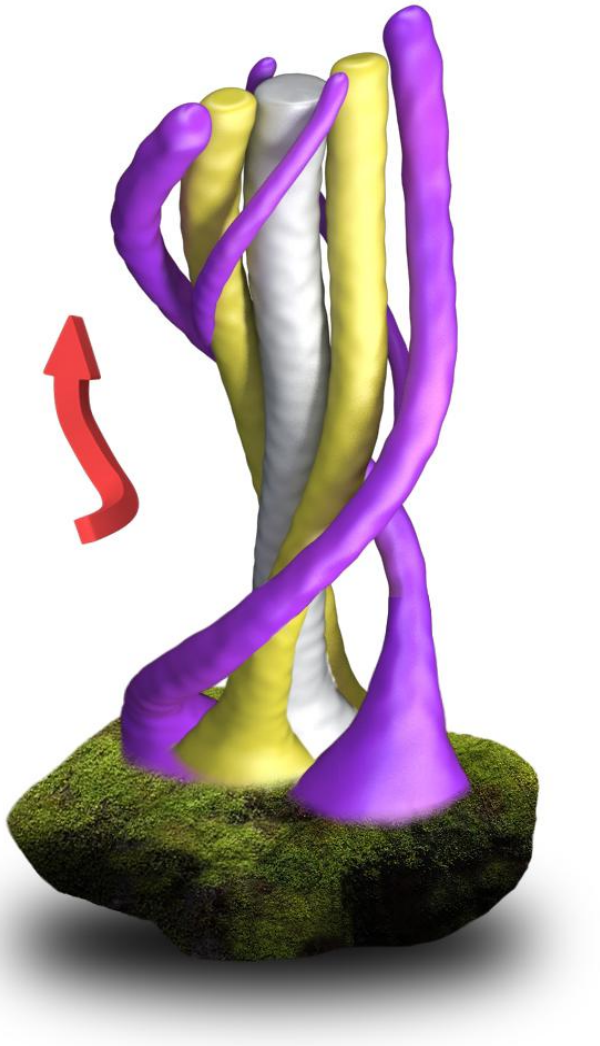
3D - SGH

"A SPATIALTEMPORAL GEOCHEMICAL HYDROCARBON INTERPRETATION"

GOLDSTREAM EXPLORATION LTD.

PAG-G2 PROJECT



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SGH – SOIL GAS HYDROCARBON
Predictive Geochemistry

for

GOLDSTREAM EXPLORATION LTD.

PAG-G2 PROJECT

August 12, 2013

** Dale Sutherland,*

Activation Laboratories Ltd

(- author, originator)*

EVALUATION OF SAMPLES

DATA EXPLORATION FOR: "GOLD" TARGETS

SGH GOLD TEMPLATE USED FOR THIS REPORT

Workorder: A13-07703

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PREFACE

THIS "STANDARD" SGH INTERPRETATION REPORT:

The purpose of this Soil Gas Hydrocarbon (SGH) interpretation "Standard Report" is to ensure that clients and other potential reviewers of the results have a good understanding of this organic, deep penetrating geochemistry. As SGH provides such a large data set and is not interpreted in the same way as inorganic geochemistries, this interpretation and report enables the user to realize the results in a timely fashion and capitalizes on years of research and development since the inception of SGH in 1976 combined with the knowledge obtained by Activation Laboratories through the interpretation of SGH data from over hundreds of surveys for a wide variety of target types in various lithologies from many geographical locations. Although referenced today as a "nano-technology", the analysis of SGH has not changed since inception. The report is compulsory as it is the only known organic geochemistry that, in spite of the name, uses non-gaseous semi-volatile organic compounds interpreted using a forensic signature approach It is based solely on SGH data and does not include the consideration or interpretation from any other geochemistry (inorganic), geology, or geophysics that may exist related to this survey area(s). This report can also provide evidence of project maintenance. To keep the price to a minimum and to provide as short a turnaround time as practically possible, usually only one SGH Pathfinder Class map is illustrated in a "Standard Report" with an applied interpretation although several other SGH Pathfinder Class maps are used and referenced. Definitions of certain terms or phrases used in this report can be found in Appendix A. A Supplemental Report and/or interpretations for other target types are available. A GIS package of georeferenced images is also available. (See Appendix H)

The interpretation in this report has used the results from some of the research with SGH in recent years which has focused on the potential that the SGH data might be able to further dissect and understand the relationships between the chemical Redox conditions in the overburden the development of an electrochemical cell and its affect in shaping geochemical anomalies. This research has resulted in the development by Activation Laboratories of a new enhanced model of the Electrochemical/ Redox Cell theory originated by Govett (1976) that was further developed to the model by Hamilton (2004, 2009). The new enhanced model developed by Sutherland (2011) takes the general anomalies expected by the Hamilton model to a higher level of detail and specificity. This has resulted in a more confident level of interpretation which has been referenced as 3D-SGH or **3D-"Spatiotemporal Geochemical Hydrocarbons**. This model has been formally introduced at the International Applied Geochemistry Symposium (IAGS) organized by The Association of Applied Geochemists that took place in Rovaniemi, Finland, in August 2011. This new level of understanding of the expected anomaly types that can be observed with SGH provides a new level of quality control in the interpretation process as the symmetry of SGH anomalies can assure the interpreter which anomalies are as a result of a buried target. With the enhanced 3D-SGH interpretation that was introduced in 2012, we also mark the beginning of the ability to make some statements regarding the possible depth to mineralization for some projects as we dissect the Redox cell relative to the new Electrochemical Cell theory. The cover of this report is an artist's rendering of the pathways of different classes of Spatiotemporal Geochemical Hydrocarbons which migrate through the overburden. This model is used as the new 3D-SGH interpretation approach.

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DISCLAIMER

This "SGH Interpretation Report" has been prepared to assist the user in understanding the development and capabilities of this Organic based Geochemistry. The interpretation of the Soil Gas Hydrocarbon (SGH) data is in reference to a template or group of SGH classes of compounds specific to a type of mineralization or target that is chosen by the client (i.e. the template for gold, copper, VMS, uranium, etc.). The various templates of SGH Pathfinder Classes that together define the forensic identification signature for a wide range of commodity target types; Gold, Nickel, VMS, SEDEX, Uranium, Cu-Ni-PGE, IOCG, Base Metal, Tungsten, Lithium, Polymetallic, and Copper, as well as for Kimberlites, Coal Seam, Wet Gas and Oil Play, have been developed through years of research and have been further refined from review of case studies and orientation studies has proven to be able to also address a wide range of lithologies. Even with 15+ years of development and experience with SGH, Activation Laboratories Ltd. cannot guarantee that the templates used are applicable to every type of target in every type of environment. The interpretation in this report attempts to identify an anomaly that has the best SGH signature in the survey for the type of mineralization or target chosen by the client. However, this interpretation is not exhaustive and there may be additional SGH anomalies that may warrant interest. It should not be viewed due to the generation of this SGH report, that Activation Laboratories Ltd. has the expertise or is in the business of interpreting any type of geochemical data as a general service. As the author is the originator of the SGH geochemistry, has researched and developed this exploration tool since 1996, and has produced similar interpretations using SGH data for close to 1,000 surveys, he is perhaps the best qualified to prepare this interpretation as assistance to clients wishing to use this SGH geochemistry. Activation Laboratories Ltd. can offer assistance in general suggestions for sampling protocols and in sample grid design; however we accept no responsibility to the appropriateness of the samples taken. Activation Laboratories Ltd. has made every attempt to ensure the accuracy and reliability of the information provided in this report. Activation Laboratories Ltd. or its employees do not accept any responsibility or liability for the accuracy, content, completeness, legality, or reliability of the information or description of processes contained in this report. The information is provided "as is" without a guarantee of any kind in the interpretation or use of the results of the SGH geochemistry. The client or user accepts all risks and responsibility for losses, damages, costs and other consequences resulting directly or indirectly from using any information or material contained in this report or using data from the associated spreadsheet of results.

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Cautionary Note Regarding Assumptions and Forward Looking Statements

The statements and target rating made in the Soil Gas Hydrocarbon (SGH) interpretive report or in other communications may contain or imply certain forward-looking information related to the quality of a target or SGH anomaly.

Statements related to the rating of a target are based on comparison of the SGH signatures derived by Activation Laboratories Ltd. through previous research on known case studies. The rating is not derived from any statistics or other formula. The rating is a subjective value on a scale of 0 to 6 relative to the similarity of the SGH signature reviewed compared to the results of previous scientific research and case studies based on the analysis of surficial samples over known ore bodies. No information on other geochemistries, geophysics, or geology is usually available as additional information for the interpretation and assignment of a rating value unless otherwise stated. The rating does not imply ore grade and is not to be used in mineral resource estimate calculations. References to the rating should be viewed as forward-looking statements to the extent that it involves a subjective comparison to known SGH case studies. As with other geochemistries, the implied rating and anticipated target characteristics may be different than that actually encountered if the target is drilled tested or the property developed.

Activation Laboratories Ltd. may also make a scientifically based reference in this interpretive report to an area that might be used as a drill target. Usually the nearest sample is identified as an approximation to a "possible drill target" location. This is based only on SGH results and is to be regarded as a guide based on the current state of this science.

Unless otherwise stated, Activation Laboratories Ltd. has not physically observed the exploration site and has no prior knowledge of any site description or details or previous test results. Actlabs makes general recommendations for sampling and shipping of samples. Unless stated, the laboratory does not witness sampling, does not take into consideration the specific sampling procedures used, or factors such as the season of sampling, samples handling, packaging, or shipping methods. The majority of the time, Activation Laboratories Ltd. has had no input into sampling survey design. Where specified Activation Laboratories Ltd. may not have conducted sample preparation procedures as it may have been conducted at the client's assigned laboratory external to Actlabs. Although Actlabs has attempted to identify important factors that could cause actual actions, events or results to differ scientifically which may impact the associated interpretation and target rating from those described in forward-looking statements, there may be other factors that cause actions, events or results that are not anticipated, estimated or intended.

In general, any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions, future events or performance are not statements of historical fact. These "scientifically based educated theories" should be viewed as "forward-looking statements".

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Readers of this interpretive report are cautioned not to place undue reliance on forward-looking information. Forward looking statements are made based on scientific beliefs, estimates and opinions on the date the statements are made and the interpretive report issued. The Company undertakes no obligation to update forward-looking statements or otherwise revise previous reports if these beliefs, estimates and opinions, future scientific developments, other new information, or other circumstances should change that may affect the analytical results, rating, or interpretation.

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SOIL GAS HYDROCARBON (SGH) GEOCHEMISTRY – OVERVIEW

In the search for minerals and elements, geology requires tools to assess the location and potential quantity of minerals and ores. In the past people looked at the landscape to find the deposit. Similar landscapes indicate similar mineral and metal deposits. This is searching on a macro level, while geochemistry is searching on a micro level. Organic material requires many minerals and elements, so organic materials can be biomarker of the present of the minerals and elements.

SGH is a deep penetrating geochemistry that involves the analysis of surficial samples from over potential mineral or petroleum targets. The analysis involves the testing for 162 hydrocarbon compounds in the C5-C17 carbon series range applicable to a wide variety of sample types. The hydrocarbons are residues from the decomposition of bacteria and microbe that feed on the target commodity as they require inorganic metallic's to catalyze the reactions necessary to develop hydrocarbons and grow in their life cycle. Specific classes of hydrocarbons (SGH) have been successful for delineating targets found at over 900 metres in depth. Samples of various media have been successfully analyzed such as soil (any horizon), sand, till, drill core, rock, peat, humus, lake-bottom sediments and even snow. After preparation in the laboratory, the SGH analysis incorporates a very weak leach, essentially aqueous, that only extracts the surficial bound hydrocarbon compounds and those compounds in interstitial spaces around the sample particles. These are the hydrocarbons that have been mobilized from the target depth. SGH is unique and should not be confused with other hydrocarbon tests or traditional analyses that measure C1 (Methane) to C5 (Pentane) or other gases. Thus, in spite of the name, SGH does not analyze for any hydrocarbons that are actually gaseous at room temperature and can be used to analyze for hydrocarbons in sample types other than soil. SGH is also different from soil hydrocarbon tests that thermally extracts or desorbs all of the hydrocarbons from the whole soil sample. This test is less specific as it does not separate the hydrocarbons and thus does not identify or measure the responses as precisely. These tests also do not use a forensic approach to identification. The hydrocarbons in the SGH extract are separated by high resolution capillary column gas chromatography and then detected by mass spectrometry to isolate, confirm, and measure the presence of only the individual hydrocarbons that have been found to be of interest from initial research and development and from performance testing especially from the two Canadian Mining Industry Research Organization (CAMIRO) projects (97E04 and 01E02).

Over the past 15+ years of research, Activation Laboratories Ltd. has developed an in-depth understanding of the unique SGH signatures associated with different commodity targets. Using a forensic approach we have developed target signatures or templates for identification, and the understanding of the expected geochromatography that is exhibited by each class of SGH compounds. In 2004 we began to include an SGH interpretation report delivered with the data to enable our clients to realize the complete value and understanding of the SGH results in the shortest time frame and provide the benefit from past research sponsored by Actlabs, CAMIRO, OMET and other industrial sponsors. In 2011, a new model of Electrochemical/Redox Cell theory was proposed and the new 3D-SGH interpretation approach based on this theory was incorporated in 2012 on a routine basis for SGH interpretation reports.

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SGH has attracted the attention of a large number of Exploration companies. In the above mentioned research projects the sponsors have included (in no order): Western Mining Corporation, BHP-Billiton, Inco, Noranda, Outokumpu, Xstrata, Cameco, Cominco, Rio Algom, Alberta Geological Survey, Ontario Geological Survey, Manitoba Geological Survey and OMET. Further, beyond this research, Activation Laboratories Ltd. has interpreted the SGH data for over 700 targets from clients since January of 2004. In both CAMIRO research projects over known mineralization and in exploration projects over unknown targets, SGH has performed exceptionally well. As an example, in the first CAMIRO research project that commenced in 1997 (Project 97E04), there were 10 study areas that were submitted blindly to Actlabs. These study sites were selected since other inorganic geochemistries were unsuccessful at illustrating anomalies related to the target.

Although Actlabs was only provided with the samples and their coordinates, SGH was able to locate the blind mineralization with exceptional accuracy in 9 of the 10 surveys. In 2007, SGH has recently been very successful in exploration and discovery of unknown targets e.g. Golden Band Resources drilled an SGH anomaly and discovered a significant vein containing "visible" gold. (www.goldenbandresources.com)

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SOIL GAS HYDROCARBON SURVEY DESIGN AND SAMPLING

Summary: See Appendix C for more details

In summary, the best conditions for the sample type and survey design include:

- Fist sized samples are usually retrieved from a shallow dug hole in the 15 to 40 cm range of depth.
- Different sample types can be taken even "within" the same survey or transect, data leveling is rarely ever required. SGH is highly effective in areas of very difficult terrain. The Golden Rule is to always take a sample.
- Samples should be evenly spaced in a grid or a series of transects with sample lines spaced at a ratio of up to 4:1 (line spacing: sample spacing).
- A minimum of 50 sample "locations" is recommended with one-third over the target and one-third on each side of the target into background if this can be predicted. This provides the opportunity of optimal data contrast.
- If very wet, samples can be drip dried in the field. No special preservation is required for shipping.
- Relative or UTM sample location coordinates are required to allow interpretation.

SAMPLE PREPARATION AND SGH ANALYSIS

Summary: See Appendix D for more details

Upon receipt at Activation Laboratories:

- The samples are air-dried at a relatively low temperature of 40°C.
- The samples are then sieved and the -60 mesh sieve fraction (<250 microns, although different mesh sizes can be used at the preference of the exploration geologist) is collected.
- The collected "pulp" is packaged in a Kraft paper envelope and transported from our sample preparation department to our analytical building also located in the industrial park in Ancaster Ontario.
- Each sample is then extracted, compounds separated by gas chromatography and detected by mass spectrometry at a *Reporting Limit* of one part-per-trillion (ppt).
- The results of the SGH analysis is reported in raw data form in an Excel spreadsheet as "semi-quantitative" concentrations without any additional statistical modification.

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SGH DATA QUALITY

Summary: See Appendix E for more details

Reporting Limit:

- The Excel spreadsheet of concentrations for each of the 162 compounds monitored is in units of ppt as "parts-per-trillion" which is equivalent to nanograms/kilogram (ng/Kg). The reporting limit of 1 ppt represents a value of approximately 5 times the standard deviation of low level analysis. Essentially all background noise has already been eliminated. All data reported should be used in geochemical mapping. Actual detectable levels can be significantly < 1 ppt.

Laboratory Replicate Analysis:

- An equal aliquot of a random sample is analyzed as a laboratory replicate.
- Due to the large amount of data, the estimate of method variability is reported as the percent coefficient of Variation (%CV).
- A laboratory replicate analysis is reported at a frequency of 1 for every 15 samples analyzed.
- The variability of field duplicate samples are similarly reported if identified.

Historical SGH Precision:

- Although the SGH analysis reports results at such trace ppt concentration levels, the average %CV for laboratory replicates is 8% within a range of ±4%.
- Field duplicates have historically been 5% higher than laboratory replicates.

Laboratory Materials Blank (LMB-QA):

- The LMB-QA values are only an early warning as a quality assurance procedure to indicate the relative cleanliness of laboratory glassware, vials, caps, and the laboratory water supply at the ppt concentration level.
- The LMB-QA values should not be subtracted from any SGH data as any background or noise characteristics have already been removed through the use of a Reporting Limit.

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SGH DATA INTERPRETATION

Summary: See Appendix F for more details

SGH Interpretation and Report:

- Due to the very large data set provided by the SGH analysis, this interpretation report is provide to offer guidance in regard to the results of this geochemistry for their survey.
- In our interpretation procedure, we separate the 162 compound results into 19 SGH sub-classes. These classes include specific alkanes, alkenes, Thiophenes, aromatic, and polyaromatic compounds. The concentrations of the individual hydrocarbons within a class are simply summed. None of these compounds are gaseous at room temperature.
- At this time the magnitude of the hydrocarbon class data has not been proven to imply a higher grade or quantity of the mineralization if present.
- A "geochemical anomaly threshold value" should not be calculated for SGH data as any background or noise has already been filtered out through the use of a Reporting Limit instead of some type of detection limit.
- SGH hydrocarbons data should never be interpreted individually. Interpretation must always be by compound class.
- Multiple SGH Classes are compared. Multiple SGH Classes that have been associated with the presence of specific mineralization are called SGH Pathfinder Classes that together represent the forensic signature or fingerprint identification for a specific type of mineralization or petroleum play.
- The anomalies of each class are compared as to their geochromatographic dispersion and ability to vector to a common location that may be referenced as a potential drill target.
- The agreement and behaviour between SGH Pathfinder Classes for a type of target, as a template of Classes, is compared against SGH research and orientation studies. The quality of agreement is expressed as an SGH Rating of confidence that the SGH anomalies of the survey being interpreted are similar to the behaviour of these classes over known mineralization.
- The interpretation is customized for the project survey by the Author. The SGH Rating and Interpretation is thus subjective and based on the experience of close to 1,000 SGH survey interpretations. The interpretation is not conducted by any computerized process.

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SGH CHARACTERISTICS

Summary: See Appendix G for more details

SGH Characteristics:

- The pattern of SGH anomalies are usually of high contrast and easily observed.
- SGH is able to illustrate exceptionally symmetrical anomalies in spite of exotic overburden and barriers such as permafrost, shale and basalt caps, previously thought to be impenetrable.
- Inorganic geochemistry can illustrate anomalies of metals that have been mobilized by surficial physical processes. As SGH is essentially "blind" to the inorganic content of a sample, SGH anomalies illustrate the true source of mineralization.
- AS SGH hydrocarbons are essentially non-polar, highly symmetrical anomalies are observed. As such symmetry is rare this provides a quality control to the interpretation resulting in higher confidence that is reflected by a higher SGH Rating Score in comparison to known case studies.
- SGH can be analyzed on samples collected in different seasons or adjacent years. The combined data rarely require any data leveling.

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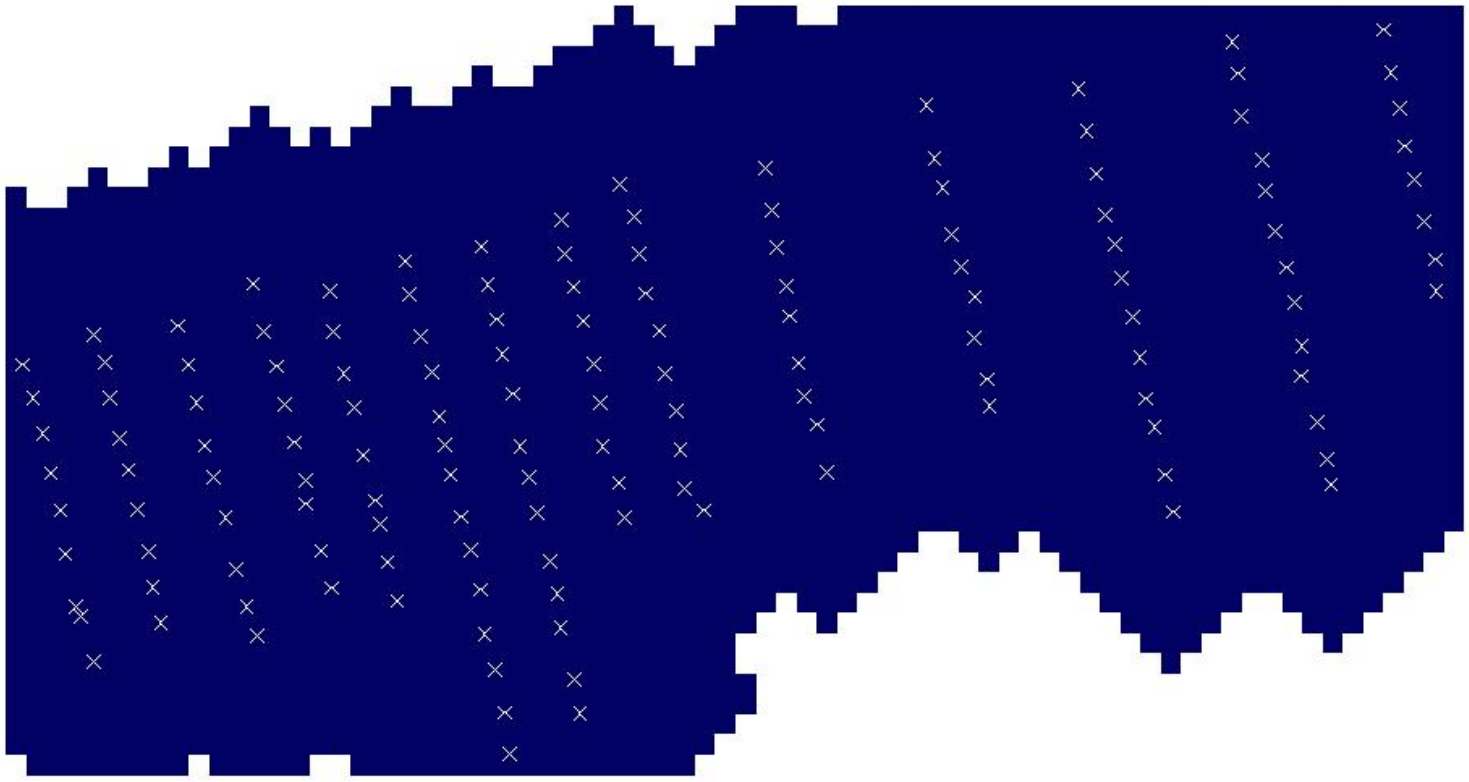
INTERPRETATION OF SGH RESULTS
A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT

SAMPLE SURVEY INTERPRETATION

This report is based on the SGH results from the analysis of a total of 146 samples. The PAG-G2 project area is described by a survey containing fourteen parallel north-south trending transects that are about 50 metres apart on the west side and 100 metres apart on the east side of the grid with samples spaced at about 25 metres along each transect. Sample coordinates were provided for mapping of the SGH results for these samples as UTM NAD83 – Zone 16N datum coordinates. A sample location map is shown below.

SGH SURVEY- SGH PAG-G2 PROJECT SAMPLE LOCATION MAP



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SGH SURVEY INTERPRETATION
A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT

Note that the associated SGH results are presented in a separate Excel spreadsheet. This data is semi-quantitative and is presented in units of pg/g or *parts-per-trillion* (ppt) as the concentration of specific hydrocarbons in the sample. The number of samples submitted for this survey is adequate to use SGH as an exploration tool. As SGH is an organic geochemistry it is essentially "blind" to the elemental presence of any inorganic species as actual metallic gold, silver, uranium, etc. content in the each sample analyzed. SGH has been proven to discriminate between false or mobilized soil anomalies and is able to actually locate the source target deposition. SGH is a deep-penetrating geochemistry and has been proven to locate Gold and other types of mineralization at several hundred metres below the surface irrespective of the type of overburden. Note that the SGH data is only reviewed for the particular target deposit type requested, in this case for the presence of gold targets. It is also initially assumed that there is only one potential target. If known, in surveys with several complex geophysical targets, to obtain the best interpretation the client should indicate that there are possibly multiple targets. The possibility of multiple geophysical targets should be known due to potential overlap and the increased complexity of resulting geochromatographic anomalies, which could alter the interpretation as to which targets are mineralized and which ones are not.

The overall precision of the SGH analysis for the samples at the PAG-G2 Project was excellent as demonstrated by 10 different samples taken from this survey which were used for laboratory replicate analysis. The average Coefficient of Variation (%CV) of the replicate results for the survey samples in this submission was 4.4% which represents an excellent level of analytical performance especially at such low parts-per-trillion concentrations.

The performance of 4 field duplicates identified in this survey was 4.8% CV. This is representative of the average value usually observed for field duplicates in the SGH analysis. It is typically observed that the variability of field duplicates are 5% to 8% CV higher than for laboratory duplicates of random samples taken from the survey. In comparison to other geochemistry's this is excellent performance. The typical excellent level of performance is due to the specificity of the SGH geochemistry as the method only targets relatively rare hydrocarbons that have been proven to be associated with mineralization, in this case for VMS. The SGH geochemistry does not detect all organic hydrocarbons present in the samples.

No other statistics were used on the data for this report for mapping or interpretation purposes aside from the use of a Kriging trending algorithm in the GeoSoft Oasis Montaj mapping software. **This interpretation is based only on the SGH results from this submission for the PAG-G2 Project.** A template or group of SGH Pathfinder Classes that have been found to be associated with buried gold targets are used as the basis for the interpretation of the PAG-G2 Project. The final interpretation is customized and conducted by the author. Although the term "template" or "signature" often appears in an SGH Interpretation Report, a computerized interpretation is not used.

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A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT SGH INTERPRETATION - SGH GOLD PATHFINDER CLASS MAP

The maps shown in plan and in 3D views in this report are SGH "Pathfinder Class maps" for targeting various hydrocarbon flux signatures related to gold targets. These maps represent the simple summation of several individual hydrocarbon compound concentrations that are grouped from within the same organic chemical class. SGH Pathfinder Class maps have been shown to be robust as they are each described using from 4 to 14 (unless otherwise stated) chemically related SGH compounds which are simply summed to create each class map. Thus each map has a higher level of confidence as it is not illustrating just one compound measurement. A legend of the compound classes appears at the bottom of the SGH data spreadsheet.

The Gold template of SGH Pathfinder Classes use low and medium molecular weight classes of hydrocarbon compounds. At least three Pathfinder Class maps, associated with the SGH signature developed for gold must be present to begin to be considered for assignment of a good rating relative to the SGH performance in case studies over known gold type mineralization. These SGH classes must also concur and support a consistent interpretation in relation to the expected geochromatographic characteristics of the Pathfinder Class. The *overall* SGH interpretation Rating has even a higher level of confidence as it further implies the consensus between at least two additional pathfinder classes. A combination of these SGH Pathfinder Classes potentially defines the signature of a target at depth if present. Each of the SGH Pathfinder Class maps shown in this report is a specific *portion* of the SGH signature relative to the presence of Gold. Each pathfinder class map is still just one of the Pathfinder Class maps used in each of the interpretation templates (other SGH Pathfinder Class maps are usually not shown at this price point and report turnaround time except at the discretion of the Author). Additional interpretation information which may contain additional SGH Pathfinder Class maps is available as a Supplementary Report at an additional price (see Appendix H).

SGH has been described by the Ontario Geological Survey of Canada (OGS) as a "Redox cell locator". Many SGH surveys for gold and other mineral targets can result in multiple types of anomalies, depending on the class of SGH compounds, even over the same target and in the same set of samples. Thus "Apical", "Segmented-Nested-Halo", and "Rabbit-Ear" or "Segmented Halo" type anomalies are all typically observed within the SGH data set from the effect of Redox cells that have developed over mineralization or specific target types. Redox cells are also related to the presence of bacteriological activity and the presence of geological bodies such as Granite Gneiss, Dunite, etc. Recently SGH has been shown to be far more sensitive to depicting Redox conditions than any measurements using pH or ORP tests. Thus it is important to understand that; not only is SGH a Redox cell locator, due to the forensic signature of mineralization used in the interpretation process, SGH can discriminate mineral targets and other target types from geological bodies and other magnetically detected targets, mineralized versus non-mineralized conductors, cultural effects, etc. even in surveys over highly difficult or exotic terrain that results in the collection of multiple sample types.

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A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT SGH INTERPRETATION SGH GOLD PATHFINDER CLASS MAP

Note that any concentration value in the accompanying Excel spreadsheet greater than the "Reporting Limit" of 1 ppt is important data and has been able to depict mineralization at depth. The majority of the variability or noise has already been eliminated; additional filtering will adversely affect any interpretation. Note that a Kriging trending algorithm has been applied to the mapping routine in the Geosoft Oasis Montaj software in the development of the SGH Class maps. SGH concentrations are in some way probably related to the amount of mineralization present and the grade of mineralization, which probably defines the characteristics of the biofilm(s) in contact with the deposit, as well as being related to the depth to mineralization. SGH results have also been shown to correlate well with geophysical anomalies such as magnetic anomalies and those of CSAMT.

SGH is a "deep penetrating" geochemistry but also works well for relatively shallow targets. Targets shallower than about 3 to 5 metres will have a reduced SGH signal due to interaction with atmospheric conditions and samples taken right at surface outcrops will have even weaker signals due to a higher degree of weathering from various processes on these volatile and semi-volatile organic hydrocarbons.

One of the less known characteristics of this SGH geochemistry is that the anomalies have been shown several times to be unaffected by physical processes that usually cause drift to anomalies or sometimes called transported anomalies. As the SGH hydrocarbons are relatively neutral in charge or polarity, and are heavier in molecular weight (i.e. as they are not gases), they are unaffected by the slope of the terrain, effects of water table, etc. Only the lightest molecular weight SGH classes have shown any sign of deflection from illustrating a vertical projection when there is a major fault present. Although this may deflect the bulls-eye effect of these classes, the high amount of symmetry of heavier and thus none deflected classes can geometrically find the bulls-eye vertical projection of mineralization that can aid in decisions of drill targeting. Most importantly, in northern climates like that found in Canada, SGH has been shown to be completely resistant to transport by glacial drift.

Note, under no circumstances should SGH results be confused with assays. SGH is an excellent geochemistry to vector to, locate and identify the presence of blind mineralization. However, it is logical that the better identified and delineated a mineralized area is, the higher the possibly of finding some significant quantity of mineralization. Also, it is expected that well defined and identified mineralization is most likely to be at a relatively shallow depth. This varies with the SGH mineralization template used.

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SGH INTERPRETATION RATING AND CLARIFICATION

Often the use of a geochemistry such as SGH is used as an economical exploration investigation tool to provide more information on an exploration target as some geological body or geophysical target. Such occurrences are in general expected to change the chemistry of the immediate overburden which in turn is expected to result in a chemical anomaly as detected in surficial samples. The author believes that it is important to convey to the client of an anomaly even if it is only a part of the mineral signature or template requested. The anomaly illustrated in the report may not be representative of the mineralization sought as only a part of the SGH signature is present, but the anomaly may confirm the presence of the geological or geophysical target which may be valuable to the client. In addition it would confirm the ability and sensitivity of SGH to show geological or geophysical occurrences. Example: A well defined rabbit-ear anomaly on the SGH Pathfinder Class map in a report, even though it may have a lower rating of 2.0 or 3.0, may illustrate to the exploration geologist that SGH does agree that there is some geological body at depth that is changing the chemistry and forming a Redox cell in the overburden. However the SGH forensic signature Rating indicates that there is a lower confidence that the "identification" of that body is likely to be say Gold (if the SGH Gold template is requested). This information would provide a confirmation that a target does exist, however if the SGH Rating indicates that the target has a lower level of confidence then the target does not have the forensic signature of the mineralization sought. SGH would thus provide a savings to the exploration program and divert focus to potentially other targets having a higher confidence in the identification Rating.

Thus, the SGH rating must always be considered in conjunction with the SGH Pathfinder Class map shown in the report. It is this rating that provides an insight into the authors' complete interpretation and is a measure of the confidence and to what degree the complete SGH signature compares with the SGH results from over case studies of similar known deposits. Unfortunately, the interpretation of a visual, as the SGH map provided, is so ingrained in humans that the reader may erroneously disregard the author's subjective rating to a large degree. As of November 25, 2011, the author now highlights the rating directly on the page having the plan view of the SGH Pathfinder Class map chosen to be illustrated. Thus to the reader of the report, the authors Rating is actually **MORE IMPORTANT** than the readers instinctive interpretation of the one map provided. Again, SGH should not be used in isolation from other site information, and that a Rating of 4.0 is when, in the authors' estimation, a signature only starts to have a good identification relative to that type of mineralization, and that the survey may warrant further study although it is not a specific recommendation to drill test the anomaly. As the SGH interpretation is represented by a signature, the SGH Pathfinder Class map(s) illustrated in reports is always only "PART" of the specific SGH signature or template that the client requests (i.e. for Gold, Nickel, etc.). No one SGH map can represent the complete signature due to the different amounts of spatial dispersion expected for the variety of SGH chemical classes within each signature. Thus the author selects the one SGH Class Map relative to the mineralization requested that best represents an anomaly that estimates the overall signature found in the survey.

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SGH INTERPRETATION

As a general comment in regard to the SGH results at this PAG-G2 Project, the interpretation was definitive as there were multiple SGH Gold Pathfinder Class maps that provided a significant amount of confirmatory evidence to the interpretation shown on page 22. The SGH anomalies detected were of fairly-good strength and contrast for each SGH Class maps and were of typical strength for Northern Ontario. This enabled good comparison of those SGH hydrocarbon classes that have been proven to be pathfinders relative to the presence of Redox cells and the pathfinders that have been associated with the SGH signature for "buried or blind" gold targets. The SGH Gold Pathfinder Class shown and other SGH Classes associated with Gold together illustrate the presence of an SGH hydrocarbon signature as the detection of those hydrocarbon residues produced by the decomposition of bacteria in the death phase that have been feeding on gold based material. These residues as concentrations of specific hydrocarbon compounds have subsequently migrated to the surface as a flux of different classes of hydrocarbons. During migration to the surface, dispersion away from the mineralization is expected and the distance of dispersion is dependent more on the average molecular weight of the class, or the depth of the target, than the complexity of the overburden. The migration paths of the SGH Classes as a rule are not affected by complex or exotic overburden. The deflection of the hydrocarbon flux is encountered only when in the direct proximity of major faults or shear zones.

This report illustrates an SGH Gold Pathfinder Class map on page 22 in plan view and on page 23 in 3D view that is a portion of the SGH signature associated with Gold and is one of the most reliable at depicting Gold mineralization. In the interpretation of this class we are typically looking for an apical response that fits within a Redox cell if the mineralization is relatively shallow. For Gold targets, SGH apical responses are estimated to indicate mineralization at less than about 30 metres based on our latest research. The map shown on page 22 for the PAG-G2 grid is predicted to represent a slightly deeper layer of possible Gold mineralization. This SGH Gold Pathfinder Class map was specifically chosen to be shown in this report as it is believed to not only show the shallowest location but also appears to be very diagnostic of the existence of potentially three gold zones or pods. Other SGH Pathfinder Classes that have been found to be associated with Gold targets have defined the three Redox zones as the dotted yellow ovals applied to the SGH Class map on page 22. Different SGH Classes have different average molecular weights, migrate through the overburden at different speeds, and thus are expected to have different dispersion distances from the observations from the SGH analysis of samples from the near surface. In each of the three zones or other SGH Gold Pathfinder classes depict a more focused delineation of potential gold mineralized pods as the dotted blue ovals. These ovals may depict the extent of shallowest portion of the disseminated Gold mineralization that may exist at a moderate depth. These shallower portions may be offset to the general Redox cell (dotted yellow oval) and may thus imply a tilt to the mineralized zone. Another SGH Gold Pathfinder Class illustrated an additional dispersion halo as the dotted purple oval in Pod B adding further confidence to the interpretation in this area. As observed on the 3D map on page 23, almost all of the SGH Pathfinder Classes for Gold provided a more intense result in Pod A, followed by Pod B, and Pod C at the east end of the grid, which may indicate a trend to slightly deeper mineralization to the east.

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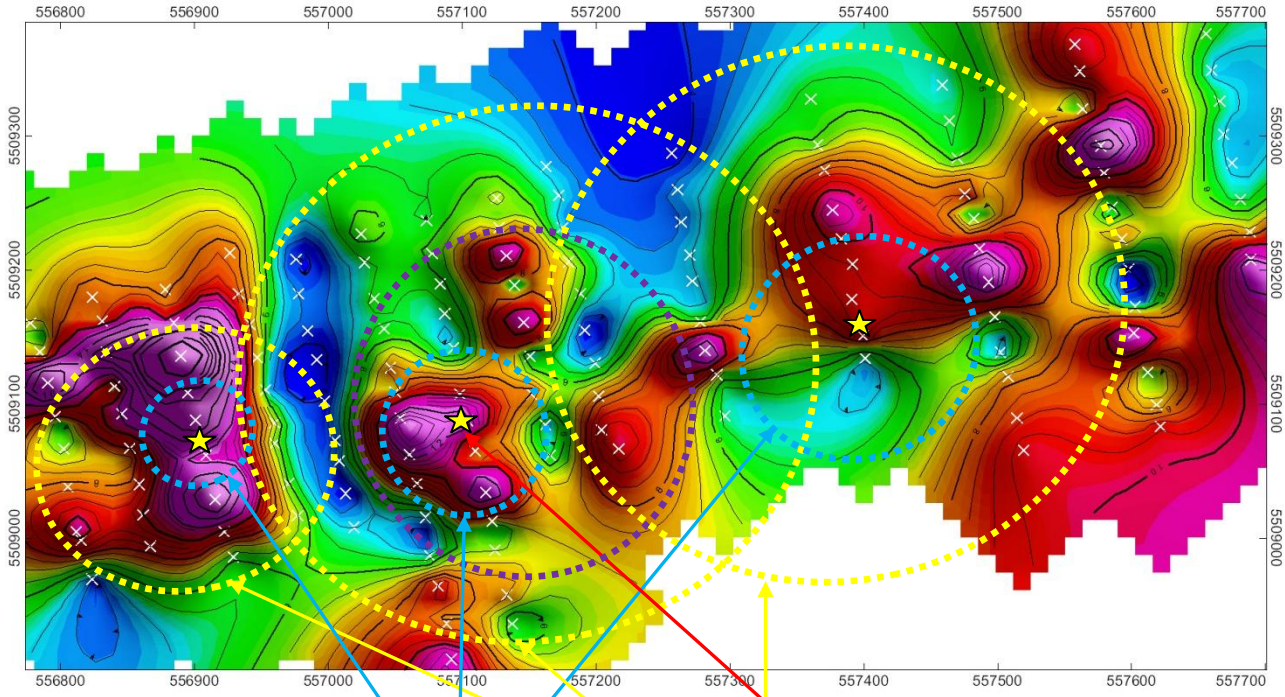
A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT
SGH "GOLD" PATHFINDER CLASS MAP



POSSIBLE REDOX ZONES – PODS A, B, and C HAVING SGH-GOLD SIGNATURE
3D-SGH PREDICTED GOLD ZONES MOST CONFIDENT DRILL TARGETS AS A VERTICAL PROJECTION
SGH SIGNATURE RATING RELATIVE TO "GOLD TARGET" = 5.5 OF 6.0

GEOSOFT

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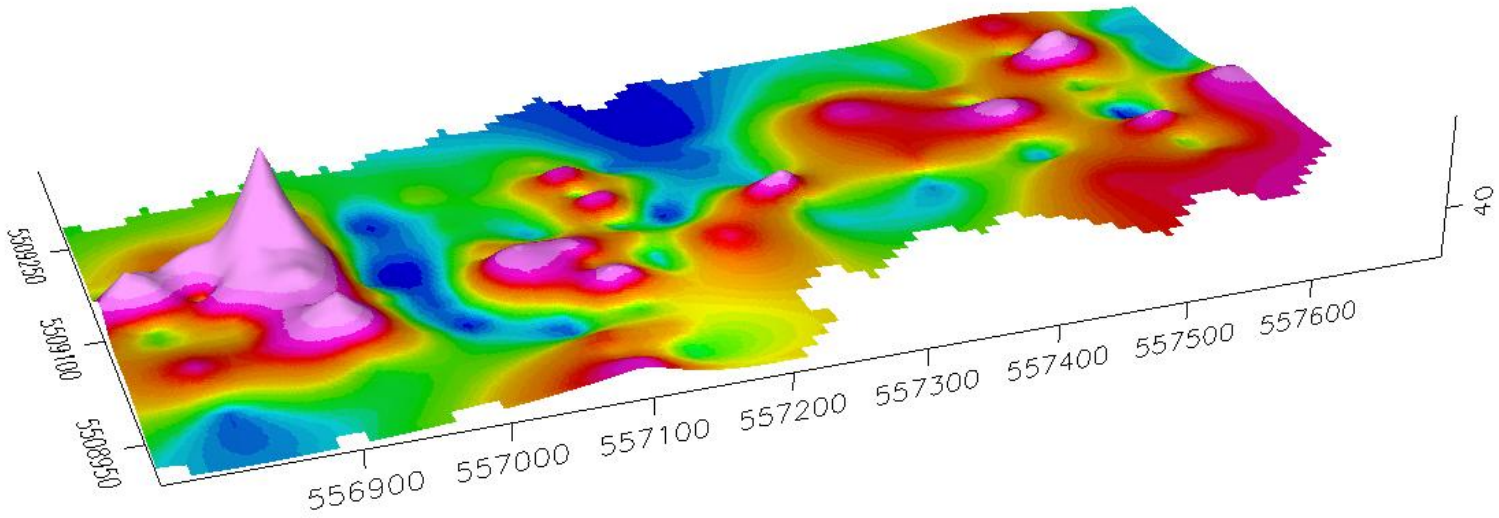

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A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT SGH INTERPRETATION FOR GOLD

The interpretation of the SGH data relative to the presence of gold targets at the PAG-G2 Project area is described by what appears to be the presence of three slightly overlapping Redox cells approximated by the yellow dotted ovals on page 22. The existence of these Redox Cells is often part of the SGH characteristic signature of identification for Gold mineralization. Other SGH Class maps (not shown) illustrate support to these segmented halo set of anomalies that is predicted to depict these redox conditions in the overburden. In addition, this particular SGH Gold Pathfinder class illustrates a more focused set of gold zones or pods as the areas within the dotted blue oval on page 22. These inner rings of a dartboard like description of these predicted Gold zones may outline the focus of gold mineralization for each Pod and also helps vector to the bulls-eye as the most central point which is predicted to be the most reliable drill target for consideration as a vertical projection of that location in each Pod having the greatest population of living- feeding-dying. It is not coincidence that this central point is geometrically centred to the gold-zone and to the redox-gradient boundary (dotted yellow oval). Although the symmetry of the segmented anomalies approximating the redox-gradient boundary, and the segmented anomalies approximating the inner mineralized zone boundary (dotted blue oval), are slightly off for Pod B, the geometrically central apical anomaly (at the yellow star), near perfect geometrically circular zones, and multiple SGH Gold Pathfinder Class maps providing multiple evidence and confirmation, together defined these predicted mineralized gold targets with a very high degree of confidence. The offset in Pod B may indicate that the shallowest portion of the gold mineralized zone is reflecting a physical tilt or offset. The rating was only reduced by a value of 0.5 from a maximum of 6.0 as a couple of anomalies of the segmented halos were missing, probably due to the survey design and resolution. Slightly tighter sample locations may have provided a resolution that may have illustrated a "perfect" response as the complete set of segmented anomalies that define these halos as predicted by the 3D-SGH model for electrochemical cell effects in Redox zones. Typically the central apical anomaly, at the three yellow stars on page 22, is usually a bit more prominent, but as it is so well geometrically centred to the predicted Redox cell and inner mineralized zone, the anomalies for Pod-A and Pod-B are confidently predicted to be the best drill target in this survey. The drill target for Pod-C for potentially the deepest mineralization in this grid has a lesser degree of confidence. Thus the location of the best drill target would be at the yellow stars on page 22 as a vertical projection to the three targets at depth. After review of all of the SGH Class maps, the SGH results from PAG-G2 Project suggests a **"rating of 5.5"** out of a possible 6.0 (6.0 being the best) for each of the three zones described by the dotted blue ovals, as the confidence in predicting that gold mineralization may be present at a possible depth of approximately 50 metres or less.

The rating shown in this and all SGH reports are based on a scale of 6.0, in 0.5 increments, with a value of 6.0 being the best. The rating discussed in relation to gold targets represents the similarity of these SGH results with other SGH case studies over known gold targets. The SGH signature or template has since been further enhanced since inception and has been proven effective from the interpretation over many other surveys in many different geographical regions and for a wide variety of lithologies of gold. Again, the degree of confidence in the rating only starts to be "good" at a level of 4.0. A Rating of 4.0 is an indication that the SGH geochemistry predicts that the zone described may warrant more work or more consideration.

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A13-07703 – GOLDSTREAM EXPLORATION LTD. - PAG-G2 PROJECT SGH SURVEY RECOMMENDATIONS

In general, additional survey boundary extensions or infill sampling to add to the survey area is not recommended as the SGH Rating, as a rating of confidence in the interpretation, might only be increased slightly. Infill sampling to double the number of transect to result in a constant 50 metre spacing might be considered if a more accurate drill target be considered for Pod C. Please refer to the general recommendations for additional or in-fill sampling for SGH in the next section if this is considered.

The identification of a drill target is not an explicit recommendation by Activation Laboratories Ltd. to drill test the associated location or SGH anomaly. A drill target is implied to ensure that the reader is aware of the location having the highest confidence of being the location of the vertical projection of the mineralization, based only on SGH data. This is also not a recommendation for vertical drilling. Vertical drilling may not be the best approach to test the SGH anomaly in this area. Activation Laboratories Ltd. has no experience in actual exploration drilling techniques. Other geological, geochemical and/or geophysical information should also be considered.

It must be remembered that many other SGH Class maps not shown in this report have been reviewed to support the interpretation shown. The client should use a combination of the SGH results shown in this report with additional geochemical, geophysical, and geological information to possibly obtain a more confident and precise target location. This is not a statement to convey some lower level of confidence in SGH results. This statement is made to recognize the proper use and interpretation of any scientific data. Whenever possible, multiple methods should always be employed so that any decisions do not rely on any one technique.

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GENERAL RECOMMENDATIONS FOR ADDITIONAL OR IN-FILL SAMPLING FOR SGH ANALYSIS

Based on the results of this report and/or other information, the client may decide that in-fill sampling may be warranted. To obtain the best results from additional sampling for SGH it is recommended that sample locations from the original survey within, or bordering, the area of interest be re-sampled rather than just combining new sample results with the sample data from the initial survey. Although several SGH surveys have previously been easily and directly, combined without data leveling, it cannot be guaranteed that data leveling will not be required. It has been found that data leveling is more apt to be required should the new samples be collected under significantly different environmental conditions than during the initial sample survey, i.e. summer collection versus winter collection. The process of data leveling adds a minimum of 3 to 5 days of work to conduct the additional data evaluation, develop additional plots of the results, conduct new interpretations, and in additional report descriptions. Results from data leveling is also always considered "an approximation", thus the confidence in a combined interpretation will be lower that the interpretation from samples collected during one excursion to the field and submitted as one survey. An additional cost will be invoiced should data leveling operations be required if the client requests that two SGH data sets be interpreted and reported together. Thus re-sampling a few of the original sample locations will provide a faster turnaround time for results and provide more accurate and confident surveys for evaluation and aid in deciding specific drill targets.

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Date Received at Actlabs Ancaster: July 12, 2013

Date Analyzed: July 24-29, 2013

Interpretation Report: August 12, 2013

GOLDSTREAM EXPLORATION LTD.

Suite 1510, 141 Adelaide Street West
Toronto, Ontario, M5H 3L5
Canada

Attention: Paul Dunbar, M.Sc., P.Geo. Vice President Exploration

RE: Your Reference: PAG-G2 PROJECT

Activation Laboratories Workorder: A13-07703

CERTIFICATE OF ANALYSIS

This Certificate applies to the associated Excel Spreadsheet of Hydrocarbon results combined with the discussion and SGH Pathfinder Class maps of the data shown in this report.

146 Samples were analyzed for this submission.

Sample preparation – Code S4 – Drying at 40°C and Sieving with -60 mesh collected

Interpretation relative to Gold targets was requested.

The following analytical package was requested and analyzed at Actlabs Ancaster Canada:

Analysis Code SGH – Soil Gas Hydrocarbon Geochemistry using High Resolution Gas Chromatography/Mass Spectrometry (HRGC/MS)

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REPORT/WORKORDER: A13-07703

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at the time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of the material submitted for analysis.

Notes: The SGH – Soil Gas Hydrocarbon Geochemistry is a semi-quantitative analytical procedure to detect and measure 162 hydrocarbon compounds as the organic signature in the sample material collected from a survey area. It is not an assay of mineralization but is a predictive geochemical tool used for exploration. This certificate pertains only to the SGH data presented in the associated Microsoft Excel spreadsheet of results.

The author of this SGH Interpretation Report, Mr. Dale Sutherland, is the creator of the SGH and OSG organic geochemistry's. He is a Chartered Chemist (C.Chem.) and Forensic Scientist specializing in organic chemistry. He is a member of the Association of the Chemical Profession of Ontario, the Association of Applied Geochemists, the International Association of GeoChemistry, the Ontario Prospectors Association, the Association for Mineral Exploration British Columbia, the Geochemical Society Association, and the Ontario Petroleum institute as well as having memberships in several national and international Forensic associations. He is not a professional geologist.

CERTIFIED BY:

Dale Sutherland, B.Sc.,B.Sc.,B.Ed.,C.Chem.,MCIC
Forensic Scientist, Organics Manager,
Director of Research
Activation Laboratories Ltd.

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APPENDIX "A"

List of terms

1. **SGH** – "SOIL GAS HYDROCARBON" GEOCHEMISTRY – a Predictive Geochemistry, used for delineate buried inorganic mineral deposits and organic petroleum plays. This is the original name used to describe this geochemistry since inception in 1996. Code SGH is still used when submitting samples.
2. **3D-SGH**- "3D- SPATIAL TEMPORAL GEOCHEMICAL HYDROCARBONS - the method of interpreting SGH and OSG results based on the Redox/Electrochemical Cell model developed by Activation Laboratories Ltd. in 2011.
3. **Redox cell**- an area of oxidation-reduction reactions or exchange of electrons that is produced over geological bodies, mineralization and petroleum based plays.
4. **Electrochemical cell**- the effect of adjacent chemically reduced areas and chemically oxidized areas as a Redox cell produces a electrical gradient that obeys the physics of a typical Electrochemical cell.
5. **Anthropogenic contamination-** the introduction of impurities/compounds of the same type as those that are being analyzed by human actions that could lead to erroneous results.
6. **Background areas**- the area around a mineral deposit that is beyond the effect of the Redox cell formed over geological bodies or exploration targets. Sampling is required into background areas to produce data that has sufficient contrast to illustrate and differentiate anomalies associated with exploration targets.
7. **Background subtracted**- A sample taken some distances away as to not contain any elements of the target being analyzed.
8. **Biofilm**- a layer of microorganisms and microbe and their related secretions and decomposition products, in this case found to inhabit mineral deposits .
9. **Biomarker**- a compound used as an indicator of a biological state. In this case a biological substance used to indicate the presence of a mineral deposit.
10. **Blind mineralization** – buried mineralization that shows no physical indication of its existence at the surface
11. **Compound** – used synonymously with the term hydrocarbon in this report
12. **Compound chemical class** – a group of hydrocarbons that are similar in size, structure, and molecular weight such that their chemical characteristics, such as water solubility, partition coefficients, vapour pressures, etc. are similar
13. **Cultural activities** – human initiated processes that may affect the physical and chemical characteristics at the earth's surface
14. **Delineating targets**- indicate the position or outlines of an exploration target as a vertical projection of the target at depth.
15. **Geochemical anomalies** – inorganic element or organic hydrocarbon measurements that are significantly different than the average low level measurements or background in a survey i.e. the needle in a haystack is an anomaly

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16. **Dispersion patterns** – the movement/ spreading of something. In this context the spatial arrangements of hydrocarbons caused by their movements to the surface from some depth.
17. **Exploration tool** – a geological, geophysical or geochemical method that attempts to illustrate data in exploration activities that may indicate the presence of mineralization or petroleum plays.
18. **Fit for purpose**- this method is ideal for its intended use.
19. **Forensic signature**- a grouping or pattern found to identify a substance having multiple characteristics with a high degree of specificity.
20. **High specificity**- as in being very specific to the mineralization.
21. **Anomalies**- this is the spatial representation of data that illustrates a high or low response as well as the combined spatial shape of anomalous data from several neighbouring samples in a survey that can form anomalies described as Rabbit-Ear, Halo, Segmented-halo, nested-halo, etc.
22. **Inorganic geochemistry** – the measurement of inorganic elements in a survey of near surface samples as a tool for exploration
23. **Data leveling** – a technique that attempts to normalize the data sets obtained between two or more sampling programs. The results of data leveling is always considered as an approximation.
24. **Lithologies-** the characteristics and classifications of rock.
25. **Locations-** the physical/ geographical position or coordinates of samples in a survey.
26. **Noise-** interference in a measurement which is independent of the data signal.
27. **Nugget effect-** Anomalously high precious metal assays resulting from the analysis of samples that may not adequately represent the composition of the bulk material tested due to non-uniform distribution of high-grade nuggets in the material to be sampled. (Webster's online dictionary)
28. **Organic geochemistry-** the Soil Gas Hydrocarbon geochemistry (SGH), or now more accurately named as Spatiotemporal Geochemical Hydrocarbons, is the analysis to detect specific organic, or carbon based, hydrocarbon compounds in a sample. The Organo-Sulphur Geochemistry (OSG) is the analysis to detect specific organic compounds that have sulphur joined to carbon in its molecular structure.
29. **Percent Coefficient of Variation (%CV)** – a measure of data variability
30. **Project maintenance** – an activity where the associated cost is applied to the exploration, advancement, and/or operation of activities associated with a particular claim
31. **Rating-** a value given to the overall confidence in the SGH results
32. **Real (in relation to data)-** any rational or irrational number
33. **Reporting Limit –** minimum concentration of an analyte that can be accurately measured for a given analytical method.
34. **Sample matrix-** the components of a sample other than the analyte.
35. **Sample type** – soil, till, humus, lake bottom sediment, sand, snow, etc.
36. **Semi-quantitative-** yielding an approximation of the quantity or amount of a substance
37. **SGH anomalies** ("Apical", "Nested-Halo", and "Rabbit-Ear" or "Halo")
38. **SGH Pathfinder** (class map/compounds)

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39. **SGH template** – a set of hydrocarbon classes that together form a geochemical signature that has been associated with the presence of a particular type of mineralization the majority of the time
40. **Surficial bound hydrocarbons** –
41. **Surficial samples-** a sample from near the earth's surface.
42. **Survey-** the area, position, or boundaries of a region to be analyzed, as set out by the client.
43. **Project-** a planned undertaking
44. **Transect-** A straight line or narrow section through an object or across a section of land.
45. **Target-** Target refers to the ore body of interest

    Target signature: the unique characteristics that identify the target.

    Target type:

    i.e. Gold, Nickel, Copper, Uranium, SEDEX, VMS, Lithium Pegmatites, IOCG, Silver, Ni-Cu-PGE, Tungsten, Polymetallic, Kimberlite as well as Coal, Oil and Gas.
46. **Threshold-** level or point at which data is accepted as significant or true.
47. **Total measurement error-** An estimate of the error in a measurement. Based on either limitation of the measuring instruments or from statistical fluctuations in the quantity being measured.

Visible (in terms of signature)- the portion shown in a chart or map

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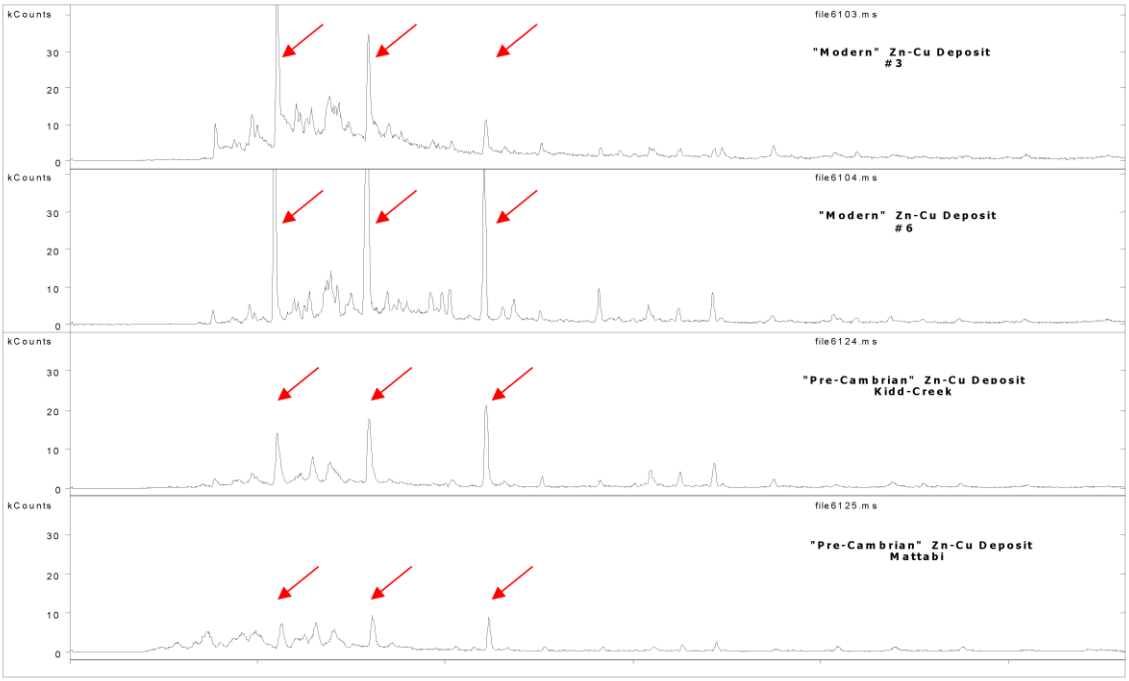
APPENDIX "B"

EXAMPLE OF AN SGH FORENSIC GEOCHEMICAL SIGNATURE EXAMPLE SHOWN FOR A VMS TARGET

The following analyses examine the Volcanic Massive Sulphide (VMS) deposit in various known locations. These analyses show how the gas chromatography indicates the reality of deposits. For all the profiles in this section, the red arrows indicate the signature of the VMS, which have all been found by organic geochemistry. These forensic geochemical signatures are shown to be consistent for similar target areas; therefore, the analyses are reliable indicators for the presence of VMS.

One of the first experiments in 1996 in the development of the SGH analysis was to observe if an SGH response could be obtained directly from an ore sample. From office shelf specimens, small rock chips were obtained which were then crushed and milled. The fine pulp obtained was then subjected to the SGH analysis. These shelf specimen samples were from well known VMS deposits of the Mattabi deposit from the Archean Sturgeon Lake Camp in Northwestern Ontario and from the Kidd Creek Archean volcanic-hosted copper-zinc deposit. Even these specimen samples contain a geochemical record of the hydrocarbons produced by the bacteria that had been feeding on these deposits at depth. As a comparison, SGH analysis were similarly conducted on modern-day VMS ore samples taken from a "black smoker" hydrothermal volcanic vent from the deep sea bed of the Juan de Fuca Ridge where high concentrations of microbial growth was also known to exist. The raw data profiles as GC/MS Total Ion Chromatograms are shown below to illustrate the *"visible"* portion of the VMS signature obtained from the SGH analysis.



The above profiles are:

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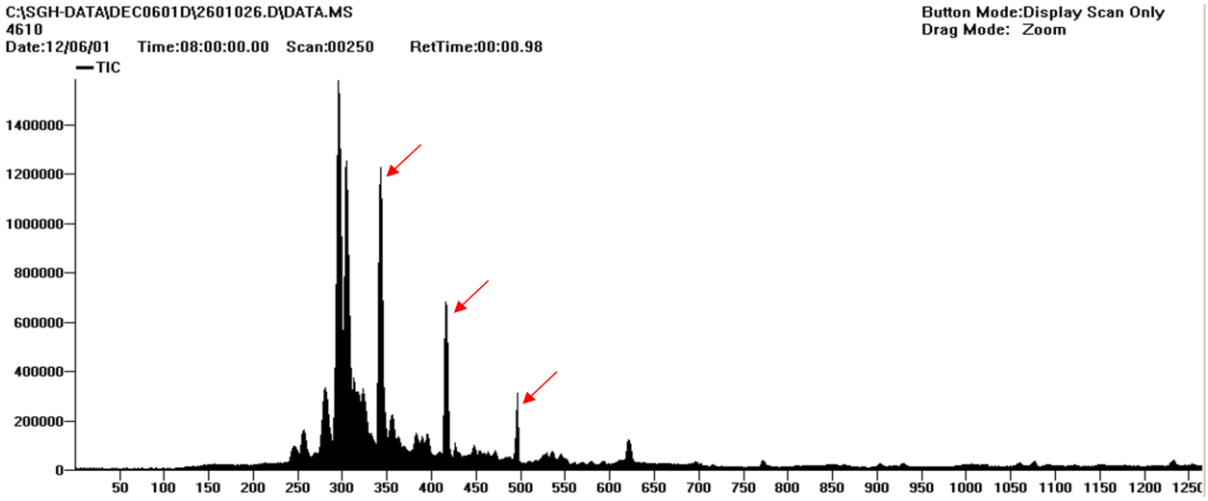
- First profile: Samples from modern day "black smokers"
- Second profile: Samples from modern day "black smokers"
- Third profile: Samples from Pre-Cambrian Zn-Cu Kidd Creek deposit
- Fourth profile: Samples from Mattabi deposit

The red arrows point to three compounds that are a *portion* of the SGH signature for VMS type deposits. This visible portion of the VMS signature of hydrocarbons can easily be seen in the analysis of each of these four samples.

The next question in our early objectives was to see if this SGH signature could also be observed in *surficial soil samples* that had been taken over VMS deposits. Through our research projects, soil samples were obtained from over the Ruttan Cu-Zn VMS deposit near Leaf Rapids, Manitoba and located in the Paleoproterozoic Rusty Lake greenstone belt. The profile obtained, as observed in the raw GC/MS chromatogram, is shown in this next image below:



The three compounds indicated by the red arrows represent the same *visible portion* of the VMS signature observed from the modern day black smoker samples and the ore samples taken from the Mattabi and Kidd Creek, even though this soil was taken from over a different VMS deposit in a geographically different area. Is this coincidence?

Another soil sample was obtained from Noranda's Gilmour South base-metal occurrence in the Bathurst Mining camp in northern New Brunswick. As shown below, this sample contained a very complex SGH signature, however the visible portion of the VMS signature as indicated by the red arrows is still observed as in the black smoker, Mattabi and Kidd Creek ore samples.

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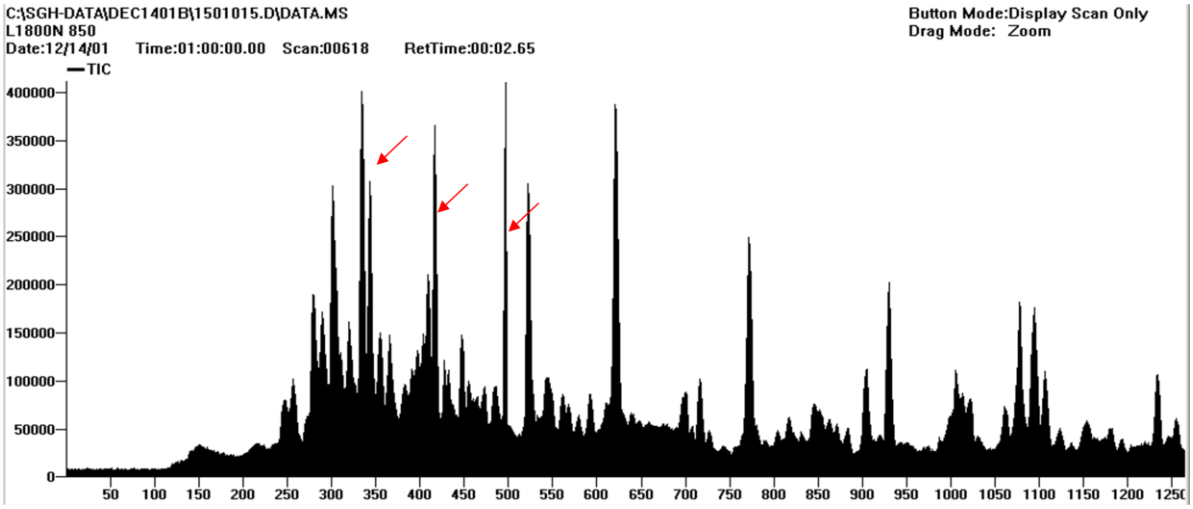

In research conducted by the Ontario Geological Survey, this same portion of the SGH signature was also observed over the VMS deposit at Cross Lake in Ontario. **Note that the visible signature shown as the three compounds indicated by the red arrows is only a small portion of the complete SGH VMS signature**. The full VMS signature is made up of at least three groups, as three organic chemical classes, that together contain at least 35 of the individual SGH hydrocarbons.

The chromatograms shown on the preceding page from the GC/MS analysis are not used directly in the interpretation of SGH data. As we are only interested in a specific list of 162 hydrocarbons, the mass spectrometer and associated software programs specifically identifies the hydrocarbons of interest, runs calculations using relative responses to a short list of hydrocarbons used as standards, and develops an Excel spreadsheet of semi-quantitative concentration data to represent the sample. Thus the SGH results for a sample, like that observed in ore from the Ruttan, are filtered to obtain the concentrations for the specific 162 hydrocarbons. A simple bar graph drawn from the Excel spreadsheet of the hydrocarbons and their concentrations results in a DNA like *forensic SGH signature* as shown below. The portion discussed hear as the "visible" SGH VMS signature in the GC/MS chromatograms, is again shown by the red arrows.

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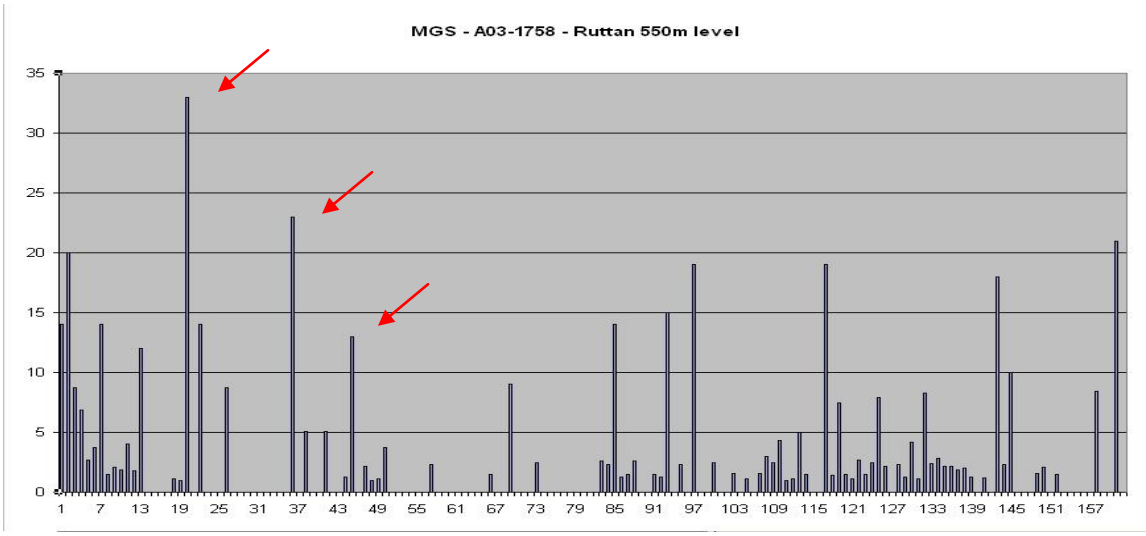

Through the work done in the SGH CAMIRO research projects, it was observed that the hydrocarbon signature produced by the SGH technique appeared to also be able to be used to differentiate barren from ore-bearing conductors. This was explored further through the submission and analysis of specific specimen samples that represented a barren pyritic conductor and a barren graphitic conductor.

The GC/MS chromatograms from these two specimens are compared to that obtained from the Kidd-Creek ore as shown below. This diagram conclusively shows that the SGH signatures obtained from the two types of barren conductors are completely different than that obtained by SGH over VMS type ore. SGH is thus able to differentiate between ore-bearing conductors and barren conductors as **the Forensic SGH Geochemical signature is different**.

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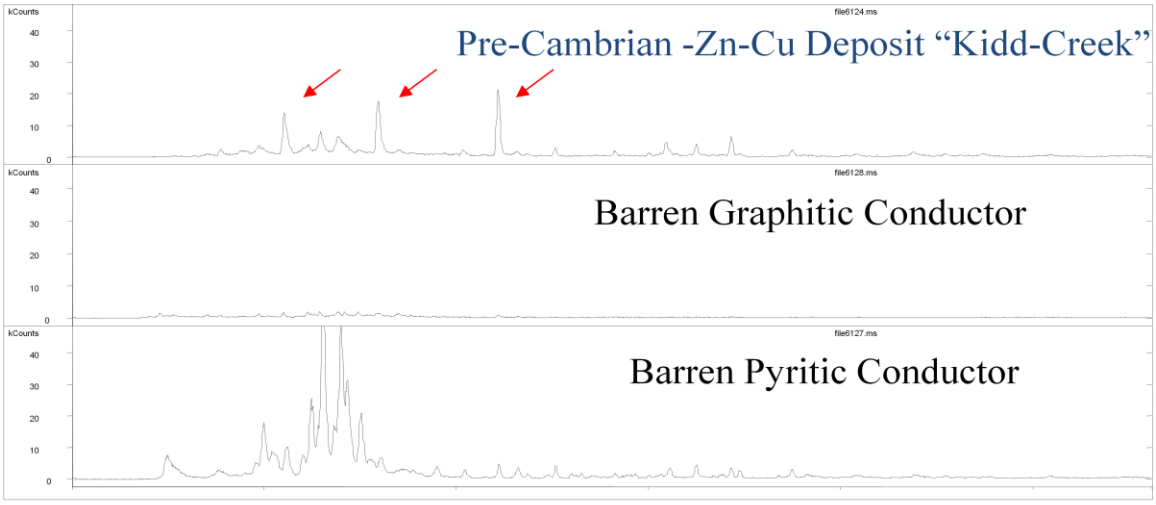

SGH has been described by the Ontario Geological Survey of Canada (OGS) as a "REDOX cell locator". Many SGH surveys for Gold and other mineral targets can result in multiple types of anomalies, depending on the class of SGH compounds, even over the same target and in the same set of samples. Thus "Apical", "Nested-Halo", and "Rabbit-Ear" or "Halo" type SGH anomalies are all typically observed from the effect of REDOX cells that have developed over deposits. REDOX cells are also related to the presence of bacteriological activity.

The VMS template of SGH Pathfinder Classes uses low and medium weight classes of hydrocarbon compounds. Again, at least three Pathfinder Class group maps, associated with the SGH signature for VMS, must be present to begin to be considered for assignment of a good rating. The Pathfinder Class anomalies in these maps must logically concur and support a consistent interpretation in relation to the expected geochromatographic characteristics of the Pathfinder Class, for a specific area.

The interpretation development history for VMS SGH Pathfinder Class map(s) shown in this report is similar to the development history for other target types. The reader should not draw a conclusion that SGH is used only for sulphide based mineralization as some of the most intense SGH anomaly has been associated with Kimberlites where sulphides are essentially not present.

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APPENDIX "C"
SOIL GAS HYDROCARBON SURVEY DESIGN AND SAMPLING

Sample Type and Survey Design: It is highly recommended that a ***minimum*** of 50 sample "locations" is preferred to obtain enough samples into background areas on both sides of *small* suspected targets (wet gas plays, Kimberlite pipes, Uranium Breccia pipes, veins, etc.). SGH is not interpreted in the same way as inorganic based geochemistries. SGH must have enough samples over both the target and background areas in order to fully study the dispersion patterns or geochromatography of the SGH classes of compounds. Based on our minimum recommendation of at least 50 sample locations we further suggest that all samples be *evenly spaced* with about one-third of the samples over the target and one-third on each side of the target in order for SGH to be used for exploration. Targets other than gas plays, pipes, dykes or veins usually require additional samples to represent both the target and background areas.

SGH has been shown to be very robust to the use of different sample types even "within" the same survey or transect. Research has illustrated that it is far more important to the ultimate interpretation of the results to take a complete sample transect or grid than to skip samples due to different sample media. The most ideal natural sample is still believed to be soil from the "Upper B-Horizon", however excellent results can also be obtained from other soil horizons, humus, peat, lake-bottom sediments, and even snow. The sampling design is suggested to use evenly spaced samples from 15 metres to 200 metres and line spacing from 50 metres to 500 metres depending on the size and type of target. A 4:1 ratio is suggested, however, larger orientation surveys have also been successful. Ideally even large grids should have one-third of the samples over the target and two-thirds of the samples into anticipated background areas. This will allow the proper assessment of the SGH geochromatographic vectoring and background site signature levels with minimal bias. Individual samples taken at significant distances from the main survey area to represent background are not of value in the SGH interpretation as SGH results are not background subtracted. Samples can be drip dried in the field and do not need special preservation for shipping and has been specifically designed to avoid common contaminants from sample handling and shipping. SGH has also been shown to be robust to cultural activities even to the point that successful results and interpretation has been obtained from roadside right-of-ways. In conclusion, the conditions for the sample type and survey design include:

- Fist sized samples are usually retrieved from a shallow dug hole in the 15 to 40 cm range of depth.
- Different sample types can be taken even "within" the same survey or transect, data leveling is rarely ever required. SGH is highly effective is areas of very difficult terrain. The Golden Rule is to always take a sample.
- Samples should be evenly spaced in a grid or a series of transects with sample lines spaced at a ratio of up to 4:1 (line spacing: sample spacing).

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- A minimum of 50 sample "locations" is recommended with one-third over the target and one-third on each side of the target into background if this can be predicted. This provides the opportunity of optimal data contrast.
- If very wet, samples can be drip dried in the field.
- No special preservation is required for shipping.

APPENDIX "D"
SAMPLE PREPARATION AND ANALYSIS

Upon receipt at Activation Laboratories the samples are air-dried in isolated and dedicated environmentally controlled rooms set to 40°C. The dried samples are then sieved. In the sieving process, it is important that compressed air is not used to clean the sieves between samples as trace amounts of compressor oils "may" poison the samples and significantly affect some target signatures. At Activation Laboratories a vacuum is used to clean the sieve between each sample. The -60 mesh sieve fraction (<250 microns, although different mesh sizes can be used at the preference of the exploration geologist) is collected and packaged in a Kraft paper envelope and transported from our sample preparation building to our analytical building on the same street in Ancaster Ontario. Each sample is then extracted, separated by gas chromatography and analyzed by mass spectrometry using customized parameters enabling the highly specific detection of the 162 targeted hydrocarbons at a *reporting limit* of one part-per-trillion (ppt). This trace level limit of reporting is critical to the detection of these hydrocarbons that, through research, have been found to be related at least in part to the breakdown and release of hydrocarbons from the death phase of microbes directly interacting with a deposit at depth. The hydrocarbon signatures are directly linked to the deposit type, which is used as a food source. The hydrocarbons that are mobilized and metabolized by the microbes are released in the death phase of each successive generation. Very few of the hydrocarbons measured are actually due to microbe cell structure, or hydrocarbons present or formed in the genesis of the deposit or from anthropogenic contamination. The results of the SGH analysis is reported in raw data form in an Excel spreadsheet as "semi-quantitative" concentrations without any additional statistical modification.

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APPENDIX "E"
SGH DATA QUALITY

Reporting Limit

The SGH Excel spreadsheet of results contains the raw unaltered concentrations of the individual SGH compounds in units of "part-per-trillion" (ppt). The reporting of these ultra low levels is vital to the measurement of the small amounts of hydrocarbons now known to be leached/metabolized and subsequently released by dead bacteria that have been interacting with the ore at depth. To ensure that the data has a high level of confidence, a "reporting limit" is used. The reporting limit of 1 ppt actually represents a level of confidence of approximately 5 standard deviations where SGH data is assured to be "real" and non-zero. Thus in SGH the use of a reporting limit automatically removes site variability, and there is no need to further background subtract any data as the reporting limit has already filtered out any site background effects. Thus we recommend that all data that is equal to or greater than 2 ppt should be used in any data review. It is important to review all SGH data as low values that may be the centre of halo anomalies and higher values as apical anomalies or as halo ridges are all important.

Laboratory Replicate Analysis

A laboratory replicate is a sample taken randomly from the submitted survey being analyzed and are not unrelated samples taken from some large stockpile of bulk material. In the Organics laboratory an equal portion of this sieved sample, or pulp, is taken and analyzed in the same manner using the Gas Chromatography/Mass Spectrometer. The comparison of laboratory replicate and field duplicate results for chemical tests in the parts-per-million or even parts-per-billion range has typically been done using an absolute "relative percent difference (RPD)" statistic which is an easy proxy for error estimation rather than a more complete analysis of precision as specified by Thompson and Howarth. An RPD statistic is not appropriate for SGH results as the reporting limit for SGH is *1 part-per-trillion*. Further, *SGH is a semi-quantitative technique* and was not designed to have the same level of precision as other less sensitive geochemistry's as it is only used as an exploration tool and not for any assay work. SGH is also designed to cover a wide range of organic compounds with an unprecedented 162 compounds being measured for each sample. In order to analyze such a wide molecular weight range of compounds, sacrifices were made to the variability especially in the low molecular weight range of the SGH analysis. The result is that the first fifteen SGH compounds in the Excel spreadsheet is expected to exhibit more imprecision than the other 147 compounds. An SGH laboratory replicate is a large set of data for comparison even for just a few pairs of analyses. Precision calculations using a Thompson and Howarth approach should only be used for estimating error in individual measurements, and not for describing the average error in a larger data set. In geochemical exploration geochemists seek concentration patterns to interpret and thus rigorous precision in individual samples is not required because the concentrations of many samples are interpreted collectively. For these reasons recent and independent research at Acadia University in Canada promote that a percent Coefficient of Variation (%CV) should be used as a universal measurement of relative error in all geochemical applications. As SGH results are a relatively large data set for nearly all submissions, %CV is a better statistic for use with SGH. By using %CV, the concentration of duplicate pairs is irrelevant because the

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units of concentration cancel out in the formation of the coefficient of variation ratio. For SGH, the %CV is calculated on all values ≥ 2 ppt. These values are averaged and represent a value for each pair of replicate analysis of the sample. All of the %CV values for the replicates are then averaged to report one %CV value to represent the overall estimate of the relative error in the laboratory sub-sampling from the prepared samples, and any instrumental variability, in the SGH data set for the survey. Actlabs' has successfully addressed the analytical challenge to minimize analytical variability for such a large list of compounds. Thus as SGH is also interpreted as a signature and is solely used for exploration and not assay measurement, the data from SGH is *"fit for purpose"* as a geochemical exploration tool.

Historical SGH Precision

In the general history of geochemistry, studies indicate that a large component of total measurement error is introduced during the collection of the initial sample and in sub-sampling, and that only a subordinate amount of error in the result is introduced during preparation and analysis. A historical record encompassing many projects for SGH, including a wide variety of sample types, geology and geography, shows that the consistency and precision for the analysis of SGH *is excellent* with an overall precision of 6.8% Coefficient of Variation (%CV). When last calculated, this number had a range of a maximum of 12.4% CV, a minimum of 3.0% CV, with a standard deviation of 1.6%, in a population made up of over 400 targets (over 45,000 samples) interpreted since June of 2004. Again the precision of 6.8% CV included all of the sample types as soil from different horizons, peat, till, humus, lake-bottom sediments, ocean-bottom sediments, and even snow. When field duplicates have been revealed to us, we have found that the precision of the field duplicates are in the range of about 9 to 12 %CV. As SGH is interpreted using a combination of compounds as a chemical "class" or signature, the affect of a few concentrations that may be imprecise in a direct comparison of duplicates is not significant. Further, projects that have been re-sampled at different times or seasons are expected to have different SGH concentrations. The SGH anomalies may not be in exactly the same position or of the same intensity due to variable conditions that may have affected the dispersion of different pathfinder classes. However, the SGH "signature" as to the presence of the specific mix of SGH pathfinder classes will definitely still exist, and will retain the ability to identify the deposit type and vector to the same target location.

Laboratory Materials Blank – Quality Assurance (LMB-QA)

The Laboratory Materials Blank Quality Assurance measurements (LMB-QA) shown in the SGH spreadsheet of results are matrix free blanks analyzed for SGH. These blanks are not standard laboratory blanks as they do not accurately reflect an amount expected to be from laboratory handling or laboratory conditions that may be present and affect the sample analysis result. The LMB-QA measurements are a pre-warning system to only detect any contamination originating from laboratory glassware, vials or caps. As there is no substrate to emulate the sample matrix, the full solvating power of the SGH leaching solution, effectively a water leach, is fully directed at the small surface area of the glassware, vials or caps. In a sample analysis the solvating power of the SGH leaching solution is distributed between the large sample surface area (from soil, humus, sediments, peat, till, etc.) and the relatively small contribution from the laboratory materials surfaces. The sample matrix also buffers the solvating or leaching effect in the sample versus the more vigorous leaching of the laboratory

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materials which do not experience this buffering effect. Thus the level of the LMB-QA reported is biased high relative to the sample concentration and the actual contribution of the laboratory reagents, equipment, handling, etc. to the values in samples is significantly lower. This situation in organic laboratory analysis only occurs at such extremely low part-per-trillion (ppt) measurement levels. This is one of the reasons that SGH uses a reporting limit and not a detection limit. The 1 ppt reporting limit used in the SGH spreadsheet of raw concentration data is 3 to 5 times greater than a detection limit. The reporting limit automatically filters out analytical noise, the actual LMB-QA, and most of the sample survey site background. This has been proven as SGH values of 1 to 3 parts-per-trillion (ppt) have very often illustrated the outline of anomalies directly related to mineral targets. **Thus all SGH values greater than or equal to 1 or 2 ppt should be used as reliable values for interpretations.**

The LMB-QA values thus should not be used to background subtract any SGH data. The LMB-QA values are only an early warning as a quality assurance procedure to indicate the relative cleanliness of laboratory glassware, vials, caps, and the laboratory water supply at the ppt concentration level. *Do not subtract the LMB-QA values from SGH sample data.*

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APPENDIX "F"
SGH DATA INTERPRETATION

SGH Interpretation Report

All SGH submissions must be accompanied by relative or UTM coordinates so that we may ensure that the sample survey design is appropriate for use with SGH, and to provide an SGH interpretation with the results. In our interpretation procedure, we separate the results into 19 SGH sub-classes. These classes include specific alkanes, alkenes, thiophenes, aromatic, and polyaromatic compounds. Note that none of the SGH hydrocarbons are "gaseous" at room temperature and pressure. The classes are then evaluated in terms of their geochromatography and for coincident compound class anomalies that are unique to different types of mineralization. Actlabs uses a six point scale in assigning a subjective rating of similarity of the SGH signatures found in the submitted survey to signatures previously reviewed and researched from known case studies over the same commodity type. Also factored into this rating is the appropriateness of the survey and amount of data/sample locations that is available for interpretation. This rating scale is described in detail in the following section.

SGH PATHFINDER CLASS MAGNITUDE

The magnitude of any individual concentration or that of a hydrocarbon class *does not imply* that the data is of more importance or that mineralization is of higher quantity or grade. SGH interpretation must use the review of the combination of specific hydrocarbon classes to make any interpretation.

GEOCHEMICAL ANOMALY THRESHOLD VALUE

In the interpretation of "inorganic" geochemical data one of the determinations to be made is to calculate a "Threshold" value above which data is considered anomalous. This is done on an element by element basis. In the interpretation of this "organic" geochemical data this determination is done differently. The determination of a threshold value is not calculated for each hydrocarbon compound. The determination of a threshold value is also a concentration below which geochemical data is considered as "noise" for the purposes of geochemical interpretation. As discussed, SGH uses a "Reporting Limit" instead of some type of Detection Limit. The amount of noise that is already eliminated in the data, as below the Reporting Limit of 1 part-per-trillion (shown in the data spreadsheet as "-1" as "not-detected at a Reporting Limit of 1 ppt") is equivalent to approximately 5 standard deviations of variability. *To thus calculate an additional Threshold Value is a loss of real and valuable data.* Further, in the interpretation of SGH data, individual compounds are not considered (unless explicitly mentioned in the report). The interpretation of SGH data is exclusively conducted by "compound chemical class" which is the sum of four to fourteen individual hydrocarbons in the same organic chemical class as these compounds naturally have the same chemical properties that ultimately define their spatial dispersion characteristics in their rise from a mineral target through the overburden. This combined class is more reliable than the measurement of any one compound. SGH also eliminates the need for a Threshold value determination above the Reporting Limit due to the "high specificity" of the specific hydrocarbons and the classes they form. Each of the hydrocarbons has been

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hand selected due to their lower probability of being found in general surface soils. Further, only those classes where the majority of the compounds are detected above the Reporting Limit are considered in the interpretation. This defines the SGH geochemistry as having less geochemical noise due to the use of a reporting limit and as having higher confidence in the use of groups (classes) of data instead of individual compounds. However the most important aspect of interpretation is the use of a forensic signature. At least three specific "Pathfinder" classes, based on the combinations or template of classes we have developed, must be present to define the hydrocarbon signature to confidently predict the presence of a specific type of mineral target. *Do not calculate another Threshold value*. **Fact:** It has been proven many times that important SGH anomalies that depict mineralization at depth can exist even with data at 3 ppt.

Mobilized Inorganic Geochemical Anomalies

It is important to note that SGH is essentially "blind" to any inorganic content in samples as only *organic* compounds as hydrocarbons are measured. Thus inorganic geochemical surface anomalies that have migrated away from the mineral source, and thus may be interpreted and found to be a false target location, is not detected and does not affect SGH results. This fact is of great advantage when comparing the SGH results to inorganic geochemical results. If there is agreement in the location of the anomalies between the organic and inorganic technique, such as Actlabs' Enzyme Leach, a significant increase in confidence in the target location can be realized. If there is no agreement or a shift in the location of the anomalies between the techniques, the inorganic anomaly may have been mobilized in the surficial environment.

The Nugget Effect

As SGH is "blind" to the inorganic content in the survey samples, any concern of a "nugget effect" will not be encountered with SGH data. A "nugget effect" may be of a concern for inorganic geochemistries from surveys over copper, gold, lead, nickel, etc. type targets.

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SGH DATA LEVELING

The combination of SGH data from different field sampling events has rarely required leveling in order to combine survey grids. The only circumstances that have occasionally required leveling has been the combination of samples that are very fine in texture, thus having a combined large surface area to samples of peat that may be in nearby areas. Even after maceration of the peat and in using the maximum size of sample amenable to this test method, peat samples have a significantly lower surface area. Peat samples have only required leveling in one survey in the last 500 SGH interpretations.

In only the last year it has been observed that SGH data *may* require leveling when different field sampling events have significantly different soil temperature. It has been documented that only when "soil" samples are taken from "frozen" ground that data leveling may be required as frozen sample act as a frozen cap to the hydrocarbon flux and may collect a higher concentration of hydrocarbon compounds compared to sampling during seasons where the samples are not frozen. Only two surveys have required leveling in the last 500 SGH interpretations.

The author has taken introductory training in the leveling of geochemical data. If leveling is required, both data sets are reviewed in terms of maximum, minimum and average values for each SGH Pathfinder Class intended for use in the interpretation. Data in sectioned into quartiles and each section is assigned specific leveling factors that is then applied to one data set. It should be noted that any type of data leveling is an approximation.

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APPENDIX "G"
SGH RATING SYSTEM DESCRIPTION

To date SGH has been found to be successful in the depiction of buried mineralization for Gold, Nickel, VMS, SEDEX, Uranium, Cu-Ni-PGE, IOCG, Base Metal, Tungsten, Lithium, Polymetallic, and Copper, as well as for Kimberlites, Coal Seam, Wet Gas and Oil Plays. SGH data has developed into a dual exploration tool. From the interpretation, a vertical projection of the predicted location of the target can be made as well as a statement on the rating of the comparability of the identification of the anticipated target type to that from known case studies, as an example: if the client anticipates the target to be a Gold deposit, what is the rating or comparability that the target is similar to the SGH results over a Gold deposit in Nunavut, shear hosted and sediment hosted deposits in Nevada, or Paleochannel Gold mineralization in Western Australia.

- **A rating of "6"** is the highest or best rating, and means that the SGH classes most important to describing a Gold related hydrocarbon signature are all present and consistently vector to the same location with well defined anomalies. To obtain this rating there also needs to be other SGH classes that when mapped lend support to the predicted location.

- **A rating of "5"** means that the SGH classes most important to describing a Gold signature are all present and consistently describe the same location with well defined anomalies. The SGH signatures may not be strong enough to also develop additional supporting classes.

- **A rating of "4"** means that the SGH classes most important to describing a Gold signature are mostly present describing the location with well defined anomalies. Supporting classes may also be present.

- **A rating of "3"** means that the SGH classes most important to describing a Gold signature are mostly present and describe the same location with fairly well defined anomalies. Some supporting classes may or may not be present.

- **A rating of "2"** means that some of the SGH classes most important to describing a Gold signature are present but a predicted location is difficult to determine. Some supporting classes may be present

- **A rating of "1"** is the lowest rating, and means that one of the SGH classes most important to describing a Gold signature is present but a predicted location is difficult to determine. Supporting classes are also not helpful.

The SGH rating is directly and significantly affected by the survey design. Small data sets, especially if significantly <50 sample locations, or transects/surveys that are geographically too short *will automatically receive a lower rating no matter how impressive an SGH anomaly might be*. When there is not enough sample locations to adequately review the SGH class geochromatography, or when the sample spacing is inadequate, or if the spacing is highly variable such that it biases the interpretation of the results, then the confidence in the interpretation of any geochemistry is adversely

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affected. The SGH rating is not just a rating of the agreement between the SGH pathfinder classes for a particular target type; it is a rating of the overall confidence in the SGH results from this particular survey. The interpretation is only based on the SGH results without any information from other geochemical, geological or geophysical information unless otherwise specified.

HISTORY & UNDERSTANDING

The subjective SGH rating system has been used since 2004 when Activation Laboratories started providing an SGH Interpretation Report with ever submission for SGH analysis to aid our clients in understanding this organic geochemistry and ensuring that they obtain the best results for their surveys. As explained in the previous section, the SGH rating is not just a rating of how definitive an SGH anomaly is, and it is not based just on the map(s) provided in this report. It is a rating of "confidence in the interpreted anomaly" from the combination of:

- (i) are the expected SGH Pathfinder Classes of compounds present from the template for this target type (one Pathfinder Class map is shown in the report, at least three must be present to adequately describe the correct signature for a particular target),
- (ii) how well do these SGH Pathfinder Classes agree in describing an particular area,
- (iii) how well does this agreement compare to SGH case studies over known targets of that type,
- (iv) how well is the interpreted anomaly defined by the survey (i.e. a single transect does not provide the same confidence as a complete grid of samples), and
- (v) is there at least a minimum of 50 sample locations in the survey so that there may be an adequate amount of data to observe the geochromatography of the different SGH Pathfinder Class of compounds.

The question often arises by clients as to the frequency of a rating, e.g. "how often is a rating of 5.0 given in an interpretation". To better understand this we present this review of the history of the SGH rating program since 2004 and some of the underlying situations that can affect the historical rating charts. Originally it was recommended that a minimum of 35 sample location be used for small target exploration, however it was quite quickly realized that this is often insufficient and at least 50 sample locations were required. In 2007 the rating scale was refined to include increments of 0.5 units rather than just integer values from 0 to 6.

A rating frequency may be biased high as most clients conduct an orientation study over a known target, thus several of these projects result in high ratings. Note that, at this time, the rating is not said to be linked to grade of a deposit or depth to the target. Even in exploration surveys clients tend to submit samples over more promising targets due to knowledge of the geology and prior geochemical or geophysical results. As shown in the following chart, projects with SGH data from 200 or more sample locations have a higher level of confidence in the interpretation as the

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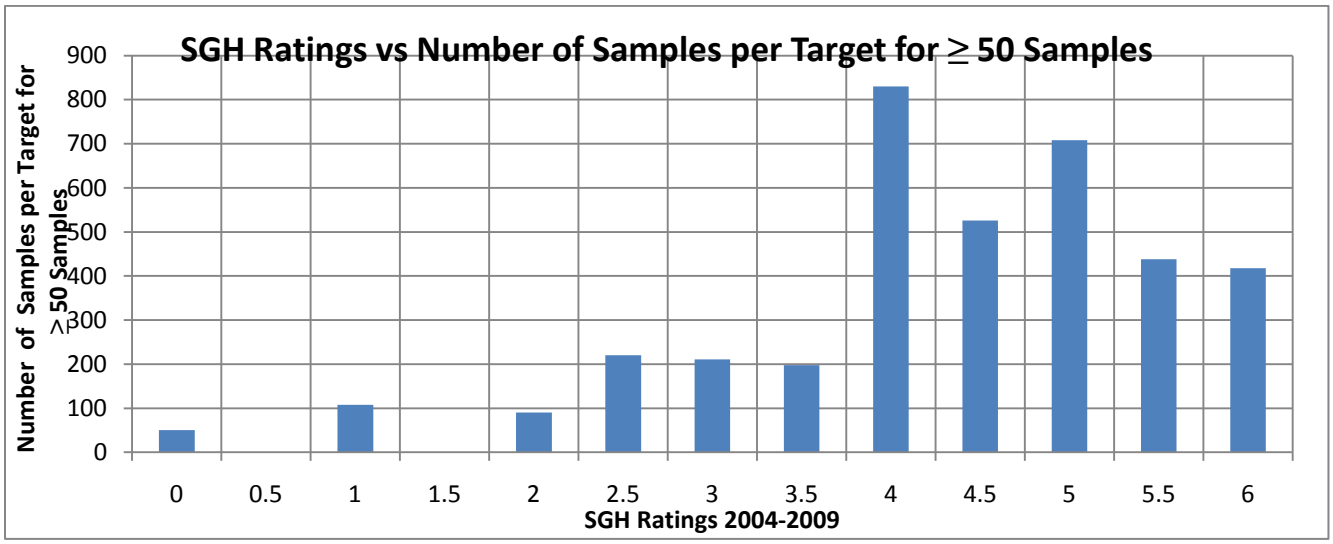
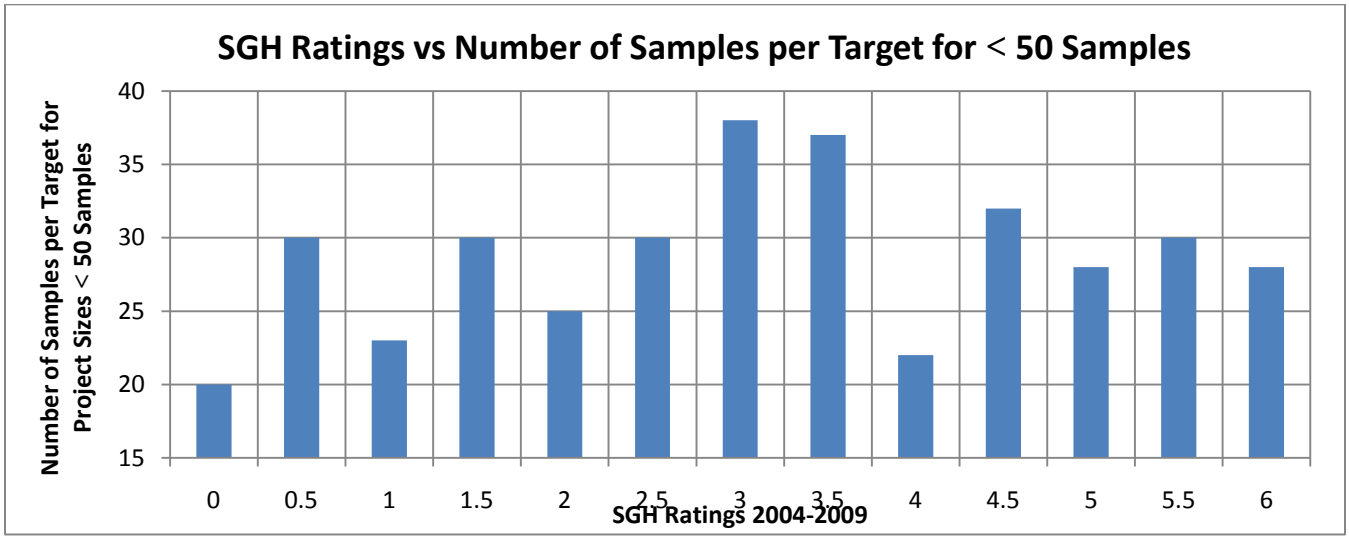
geochromatography of the SGH Pathfinder Classes of compounds can be more completely observed and reviewed.



The rating frequency may be biased low as research projects often include a bare minimum of samples to reduce costs. Research projects may also be over targets known to be difficult to depict with geochemistry. Multiple targets in close vicinity in a survey may result in a low bias as the Pathfinder Class geochromatography is more difficult to deconvelute. Ratings may also be biased low if less than the recommended 50 sample locations are submitted as indicated by the following chart. This chart also illustrates that there is no interpretation bias to a particular rating value.



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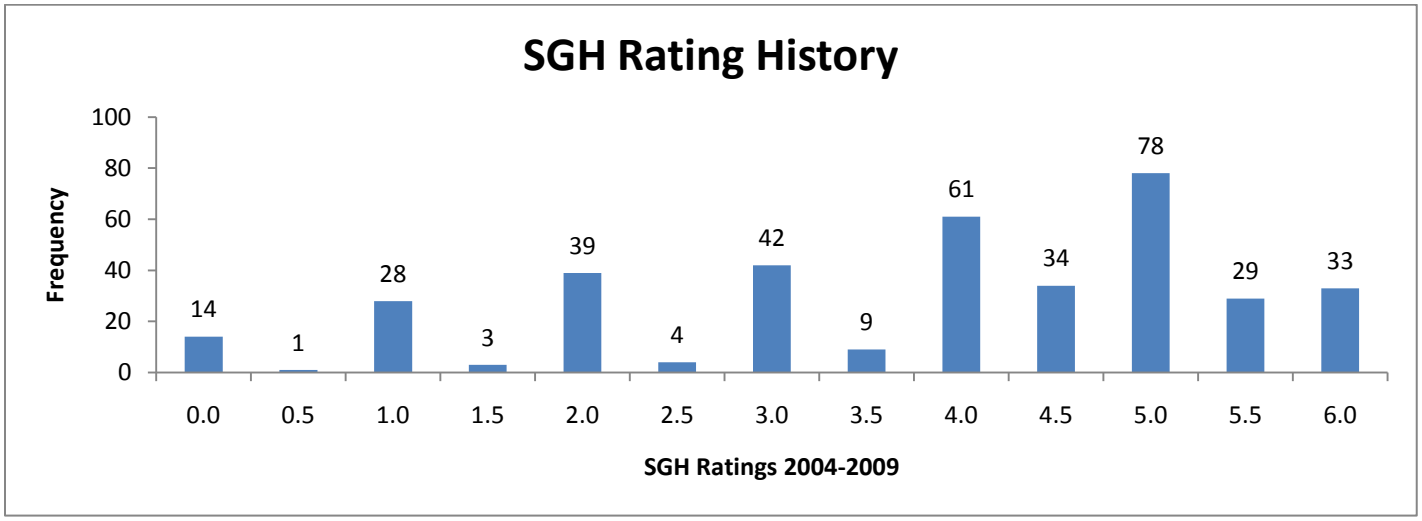
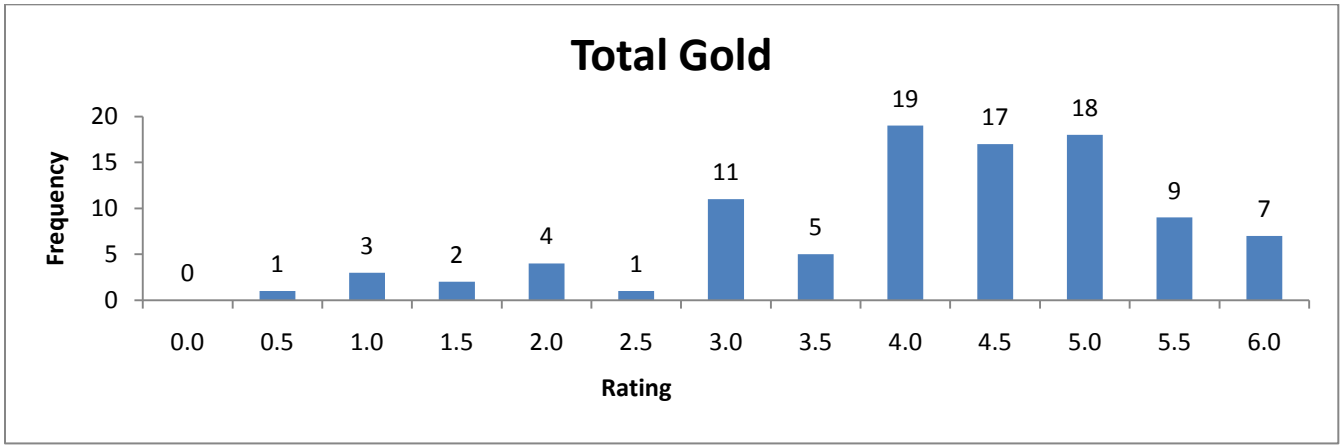
The overall rating frequency for over 400 targets from January 2004 to December 2009 is shown in the chart below illustrating that surveys over more promising targets are most often submitted for best use of research or exploration dollars. It also indicates that the 0.5 increments were less frequent as they started in 2007.



More specific for SGH interpretation for Gold targets, the overall rating frequency for 97 targets from January 2004 to December 2009 is shown in the chart below that also illustrates that surveys over more promising Gold targets are most often submitted for best use of research or exploration dollars.



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APPENDIX "H"

"SUPPLEMENTAL REPORT": ($ 1,800.00)

Those clients who have determined that these SGH results will add an important aspect to their exploration effort can request a "Supplemental Report". This report contains the additional SGH Pathfinder Classes and an explanation of their use in the SGH interpretation that supports the initial applied "Rating" for the survey as a relative comparison to the results previously obtained in case studies that were used to create the SGH template for the general target type.

"ADDITIONAL INTERPRETATION": ($ 1,800.00)

The SGH data can be interpreted multiple times in comparison to a variety of SGH templates developed for exploration for different mineral targets or petroleum plays. The samples do not have to be reanalyzed. This can be addressed as a separate section of a report or as a separate report based on the client's wishes. The price is per survey area, e.g. if there are two projects in a submission, perhaps a North area and South area, and both survey areas are to be interpreted for say Gold and Copper, the first interpretation is included in the SGH analysis price, the second interpretation for each area would be priced at $1,800 per area, thus a total of $3,600.

"BASIC OR SUPPLEMENTAL REPORT GIS PACKAGE": ($ 200.00)

Those clients that wish to import the SGH results into their GIS software can request a "GIS Package", which will include the geo-referenced image files that reflect the mapped SGH Pathfinder Class or Classes contained in the Standard or Supplemental Report and an Excel CSV file(s) containing the associated Class Sum data.

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	001 - LA	002 - LA	003 - LB	004 - LA	005 - LB	006 - LB	007 - LA	008 - LB	009 - LB	010 - LB	011 - LA	012 - LB	013 - LBA	014 - LB
20E1	166	705	20	8	5	1	2	3	-1	-1	2	-1	2	-1
20E2	110	444	18	4	5	3	1	3	-1	-1	1	-1	1	-1
20E3	171	1120	16	14	5	4	2	2	-1	2	2	-1	2	-1
20E4	107	63	13	5	5	2	2	5	-1	2	2	-1	2	-1
20E5	175	813	15	8	5	4	2	4	-1	1	2	-1	2	-1
20E5-R	183	879	16	9	6	2	2	1	-1	2	3	-1	3	-1
20E6	129	519	12	6	4	1	1	2	-1	1	3	-1	2	-1
20E7	127	615	13	7	4	4	3	2	-1	2	3	-1	3	-1
20E8	124	83	13	6	4	1	2	4	-1	1	2	-1	2	-1
20E9	115	73	13	5	4	3	1	2	-1	-1	2	-1	1	-1
21E1	113	486	26	4	7	4	-1	2	-1	-1	-1	-1	-1	-1
21E2	114	360	6	-1	4	2	-1	2	-1	-1	-1	-1	-1	-1
21E3	93	399	14	4	4	1	1	2	-1	-1	1	-1	-1	-1
21E4	405	1070	30	3	8	3	-1	4	-1	1	-1	-1	-1	-1
21E5	129	549	11	6	3	1	2	1	-1	-1	1	-1	1	-1
21E6	136	642	11	9	4	1	2	5	-1	1	2	-1	2	-1
21E7	184	984	15	11	5	2	4	5	-1	2	3	-1	3	-1
21E8	120	507	12	6	4	1	1	2	-1	-1	1	-1	1	-1
21E9	103	58	10	5	3	2	1	-1	-1	-1	1	-1	1	-1
21E10	133	600	12	8	4	3	2	2	-1	1	2	-1	2	-1
21E11	134	666	12	7	4	1	2	2	-1	1	2	-1	2	-1
21E11-R	133	669	12	8	4	1	2	5	-1	1	2	-1	2	-1
21E12	164	798	13	10	6	4	2	2	-1	2	2	-1	2	-1
22E1	138	95	36	5	9	3	-1	4	-1	1	-1	-1	-1	-1
22E2	135	675	18	8	6	2	3	2	-1	2	2	-1	2	-1
22E3	106	402	9	4	2	2	1	1	-1	-1	2	-1	1	-1
22E4	128	525	16	5	6	3	3	8	-1	3	4	-1	3	1
22E5	122	70	13	5	4	1	2	5	-1	1	2	-1	2	-1
22E6	176	594	27	-1	7	2	-1	2	-1	-1	-1	-1	-1	-1
22E7	276	921	27	8	8	3	-1	4	-1	1	-1	-1	-1	-1
22E8	99	438	19	5	4	2	-1	-1	-1	-1	-1	-1	-1	-1
22E9	123	405	9	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1
22E10	167	855	19	9	7	2	2	6	-1	2	2	-1	2	-1
22E11	119	268	14	5	4	3	1	1	-1	-1	2	-1	1	-1
22E12	140	675	19	7	5	1	1	3	-1	1	1	-1	2	-1
22E13	170	729	12	11	4	4	2	4	-1	1	2	-1	2	-1
23E1	182	513	36	3	6	2	-1	2	-1	-1	-1	-1	-1	-1
23E1-R	245	897	36	4	6	2	-1	2	-1	-1	-1	-1	-1	-1
23E2	138	720	15	9	5	2	2	1	-1	1	1	-1	-1	-1
23E3	372	1080	20	7	6	3	-1	2	-1	1	-1	-1	-1	-1
23E4	234	247	23	3	5	2	-1	1	-1	-1	-1	-1	-1	-1
23E5	152	645	27	7	7	3	1	2	-1	-1	-1	-1	-1	-1
23E6	90	50	10	4	3	1	1	2	-1	-1	-1	-1	-1	-1
23E7	152	594	12	8	4	2	2	2	1	2	2	-1	2	-1
23E8	187	747	14	10	5	4	2	5	-1	2	3	-1	3	-1
1450E1	405	1270	27	11	11	6	-1	5	-1	2	-1	-1	-1	-1
1450E2	232	1050	24	7	11	5	-1	3	-1	1	-1	-1	-1	-1
1450E3	188	882	28	15	17	9	1	10	-1	3	1	-1	-1	1
1450E4	158	909	13	12	4	4	2	1	-1	1	2	-1	1	-1
1450E5	212	1160	20	18	12	4	3	7	-1	2	3	-1	2	-1
1450E6	145	624	12	7	4	3	1	2	-1	1	2	-1	2	-1
1450E7	125	636	11	7	4	1	2	2	-1	1	2	-1	2	-1
1450E8	155	672	13	9	4	4	2	5	-1	2	2	-1	2	-1
1450E8-R	148	675	12	9	5	2	2	2	-1	2	3	-1	2	-1

	001 - LA	002 - LA	003 - LB	004 - LA	005 - LB	006 - LB	007 - LA	008 - LB	009 - LB	010 - LB	011 - LA	012 - LB	013 - LBA	014 - LB
1450E9	145	669	12	9	4	1	2	2	-1	1	2	-1	2	-1
14E1	204	999	25	7	12	5	2	2	-1	2	-1	-1	-1	-1
14E2	185	240	21	5	6	2	-1	1	-1	-1	-1	-1	-1	-1
14E3	675	2270	38	49	12	-1	8	11	-1	4	4	-1	4	1
14E4	462	1800	24	20	9	5	1	2	-1	1	-1	-1	-1	-1
14E5	351	1490	27	9	9	3	-1	3	-1	-1	-1	-1	-1	-1
14E6	185	963	25	12	8	3	2	3	-1	1	1	-1	1	-1
14E7	146	741	14	12	11	5	2	4	-1	2	2	-1	2	-1
14E8	144	474	14	7	5	5	-1	3	-1	2	-1	-1	1	-1
14E9	119	77	12	5	3	1	-1	1	-1	-1	-1	-1	-1	-1
1550E1	219	1150	20	11	13	7	2	3	-1	2	-1	-1	-1	-1
1550E2	303	1430	27	9	13	5	2	3	-1	2	-1	-1	-1	-1
1550E3	159	711	21	3	8	6	-1	4	-1	1	-1	-1	-1	-1
1550E4	218	999	28	3	10	3	-1	2	-1	1	-1	-1	-1	-1
1550E5	136	78	22	-1	9	5	-1	1	-1	-1	-1	-1	-1	-1
1550E5-R	131	519	21	3	8	5	-1	2	-1	-1	-1	-1	-1	-1
1550E6	135	645	12	10	6	3	2	1	-1	2	2	-1	2	-1
1550E7	146	660	12	7	4	1	2	1	-1	1	2	-1	1	-1
1550E7D	141	693	12	8	4	-1	2	1	-1	1	1	-1	1	-1
1550E8	127	846	14	15	6	2	2	2	-1	1	1	-1	1	-1
1550E9	142	552	12	7	4	3	2	1	-1	1	2	-1	2	-1
15E1	327	1570	26	11	11	5	2	2	-1	2	1	-1	1	-1
15E2	221	972	27	6	10	5	-1	5	-1	1	-1	-1	-1	-1
15E3	339	1560	30	10	9	4	1	12	26	27	1	4	1	1
15E4	150	717	15	12	7	2	1	8	1	2	2	-1	2	-1
15E5	177	771	18	11	6	2	2	6	2	4	5	-1	4	1
15E6	136	558	13	6	3	3	2	3	-1	1	2	-1	2	-1
15E7	168	720	14	10	5	2	2	8	-1	3	3	-1	3	1
15E8	171	822	15	11	9	2	3	1	-1	2	2	-1	3	-1
15E9	119	76	13	5	5	1	1	3	-1	-1	1	-1	-1	-1
1650E1	124	585	18	6	8	3	2	2	-1	-1	1	-1	-1	-1
1650E1-R	120	546	16	6	8	4	1	3	3	3	1	-1	-1	-1
1650E2	114	480	11	5	5	2	2	2	-1	-1	1	-1	-1	-1
1650E3	122	546	14	5	8	3	2	3	-1	-1	1	-1	1	-1
1650E4	122	579	13	7	5	3	2	2	-1	-1	1	-1	1	-1
1650E5	205	840	15	9	6	2	3	2	-1	1	3	-1	2	-1
1650E6	158	663	12	8	4	3	2	3	-1	-1	2	-1	1	-1
1650E7	202	834	15	10	6	2	3	7	-1	2	4	-1	3	-1
1650E8	204	795	15	9	5	3	2	2	-1	2	4	-1	3	1
1650E9	168	714	14	8	5	2	2	2	-1	1	3	-1	2	-1
1650E10	157	723	16	9	8	2	2	1	-1	-1	1	-1	1	-1
1650E11	125	591	12	6	4	1	2	-1	-1	-1	2	-1	1	-1
1650E12	170	837	16	9	9	3	2	4	-1	1	2	-1	1	-1
1650E13	204	825	15	10	5	4	2	1	-1	1	2	-1	2	-1
1650E14	114	444	12	5	3	-1	1	16	-1	1	2	-1	1	-1
1650E14D	107	450	12	5	3	-1	1	1	-1	-1	2	-1	1	-1
16E1	146	621	22	-1	3	2	-1	-1	-1	-1	-1	-1	-1	-1
16E1-R	137	579	20	-1	3	1	-1	-1	-1	-1	-1	-1	-1	-1
16E2	185	876	20	5	6	3	-1	1	-1	-1	-1	-1	-1	-1
16E3	243	1060	20	4	6	2	-1	1	-1	-1	-1	-1	-1	-1
16E4	96	411	14	4	4	2	-1	-1	-1	-1	-1	-1	-1	-1
16E5	120	429	15	-1	3	2	-1	1	-1	-1	-1	-1	-1	-1
16E6	122	648	14	6	4	1	1	1	-1	-1	-1	-1	-1	-1
16E7	115	570	9	7	4	1	1	2	-1	-1	-1	-1	-1	-1

	001 - LA	002 - LA	003 - LB	004 - LA	005 - LB	006 - LB	007 - LA	008 - LB	009 - LB	010 - LB	011 - LA	012 - LB	013 - LBA	014 - LB
16E8	108	474	11	5	3	2	1	-1	-1	-1	-1	-1	-1	-1
16E9	128	660	10	8	4	1	2	2	-1	-1	-1	-1	-1	-1
1750E1	133	546	21	-1	12	5	-1	3	-1	1	-1	-1	-1	-1
1750E2	123	462	22	-1	9	3	-1	3	-1	-1	-1	-1	-1	-1
1750E3	205	1060	25	8	15	7	-1	7	-1	2	-1	-1	-1	-1
1750E4	106	441	9	5	3	1	1	2	-1	-1	-1	-1	-1	-1
1750E5	145	798	10	9	4	3	3	4	-1	2	5	-1	4	-1
1750E6	117	69	11	5	3	2	2	2	-1	-1	1	-1	1	-1
1750E7	300	1520	20	12	12	3	2	4	-1	2	-1	-1	-1	-1
1750E7-R	265	1310	17	9	10	3	1	4	-1	1	-1	-1	-1	-1
1750E8	117	501	12	5	4	-1	-1	2	-1	-1	-1	-1	-1	-1
1750E9	107	411	10	4	4	1	1	2	-1	-1	-1	-1	-1	-1
17E1	220	1040	22	6	13	9	-1	2	-1	-1	-1	-1	-1	-1
17E2	177	666	20	4	8	4	-1	3	-1	-1	-1	-1	-1	-1
17E3	251	1010	11	5	10	5	-1	2	-1	-1	-1	-1	-1	-1
17E4	232	1330	9	14	3	-1	2	2	-1	-1	1	-1	1	-1
17E5	165	738	19	9	12	6	1	1	-1	-1	-1	-1	-1	-1
17E6	136	759	13	8	5	2	2	3	1	1	1	-1	1	-1
17E7	211	1070	13	12	9	6	4	5	-1	2	2	-1	2	1
17E7D	218	1180	13	13	5	2	4	5	-1	2	2	-1	2	-1
17E8	165	723	13	8	6	2	1	3	-1	-1	1	-1	1	-1
17E9	133	624	13	7	10	6	2	5	2	2	-1	-1	-1	2
17E10	188	786	17	8	6	2	1	2	-1	-1	1	-1	1	-1
17E11	122	465	12	3	12	7	-1	3	-1	-1	-1	-1	-1	-1
17E12	197	1050	15	8	21	7	1	4	-1	1	-1	-1	-1	-1
17E12-R	188	1020	15	8	15	6	-1	3	-1	1	-1	-1	-1	-1
17E13	119	516	14	4	5	2	-1	2	-1	-1	-1	-1	-1	-1
18E1	98	435	11	5	3	-1	-1	2	-1	-1	-1	-1	-1	-1
18E2	168	642	22	-1	6	2	-1	2	-1	-1	-1	-1	-1	-1
18E3	152	474	18	3	5	2	-1	1	-1	-1	-1	-1	-1	-1
18E4	155	810	13	11	5	1	2	3	-1	-1	1	-1	-1	-1
18E5	120	594	10	6	3	-1	1	2	-1	-1	1	-1	1	-1
18E6	130	528	15	4	4	1	-1	-1	-1	-1	-1	-1	-1	-1
18E7	140	573	15	5	6	4	-1	2	-1	-1	-1	-1	-1	-1
18E8	130	564	11	6	3	-1	1	4	-1	1	2	-1	2	-1
18E9	137	573	14	6	7	4	2	4	-1	1	-1	-1	-1	-1
18E10	230	1260	20	16	17	4	2	4	-1	2	1	-1	1	-1
19E1	114	462	12	5	4	2	1	-1	-1	-1	-1	-1	-1	-1
19E2	103	435	11	4	3	1	-1	2	-1	-1	-1	-1	-1	-1
19E3	103	52	8	5	3	3	2	1	-1	-1	1	-1	1	-1
19E4	109	65	11	4	3	-1	1	2	-1	-1	1	-1	-1	-1
19E4-R	109	68	11	4	3	1	1	2	-1	-1	1	-1	-1	-1
19E5	121	77	13	5	4	-1	1	2	-1	-1	1	-1	1	-1
19E6	148	711	15	7	5	2	2	2	-1	-1	1	-1	1	-1
19E7	188	876	13	13	5	1	4	6	-1	2	4	-1	3	1
19E8	122	79	14	5	5	-1	1	3	-1	-1	1	-1	-1	-1
19E9	150	624	16	-1	5	1	-1	2	-1	-1	-1	-1	-1	-1
19E9D	134	561	15	4	5	1	-1	2	-1	-1	-1	-1	-1	-1
LMB-QA	95	366	8	4	2	-1	1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	103	354	7	3	-1	-1	1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	98	58	6	3	1	-1	1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	109	384	7	4	-1	-1	1	-1	-1	-1	-1	-1	-1	-1

	001 - LA	002 - LA	003 - LB	004 - LA	005 - LB	006 - LB	007 - LA	008 - LB	009 - LB	010 - LB	011 - LA	012 - LB	013 - LBA	014 - LB

SOIL GAS HYDROCARBONS (SGH) by GC/MS

A13-07703 - Date: July 24, 2013 - Activation Laboratories Ltd.
Results represent only the material tested. Actlabs is not liable for any claim/damage from use of this report in excess of the test cost. Unless requested samples are discarded in 90 days.
This report is only to be reproduced in full.

Goldstream Exploration Ltd. - Paul Dunbar
PAG G2 Project Site

R=Replicate Sample
-1=Reporting Limit of 1pg/g (ppt=parts per trillion)
LMB-QA = Laboratory Materials Blank - Quality Assurance

LEGEND FOR COLUMN HEADINGS - SGH COMPOUND CLASSES

LA, HA, LBA, HBA = ALKYL-ALKANES
LB, HB, LPB, HPB = ALKYL-BENZENES
LAR, MAR, HAR = ALKYL-AROMATICS
LBI, MBI, HBI, LPH, MPH, HPH = ALKYL-POLYAROMATICS
THI = ALKYL-DIVINYLENE SULPHIDES
ALK = ALKYL-ALKENES

	015 - LAR	016 - LB	017 - LB	018 - LB	019 - LB	020 - LA	021 - LPH	022 - LBA	023 - LAR	024 - LB	025 - LAR	026 - LBA	027 - LB	028 - ALK
20E1	-1	-1	-1	-1	-1	3	-1	3	-1	-1	-1	-1	-1	-1
20E2	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	-1	-1	1
20E3	-1	-1	-1	1	1	3	-1	3	-1	-1	-1	1	2	2
20E4	-1	-1	-1	1	1	5	-1	4	-1	-1	-1	2	2	2
20E5	-1	-1	-1	1	1	4	-1	4	-1	-1	-1	2	2	2
20E5-R	-1	-1	-1	1	2	5	-1	5	1	-1	-1	2	2	3
20E6	-1	-1	-1	1	1	6	-1	6	-1	1	-1	3	2	3
20E7	-1	-1	-1	1	1	6	-1	6	1	-1	-1	2	2	3
20E8	-1	-1	-1	-1	1	4	-1	3	1	-1	-1	2	2	2
20E9	-1	-1	-1	-1	-1	2	-1	3	-1	-1	-1	2	-1	2
21E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E3	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	-1	-1	1
21E4	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	1	-1
21E5	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	2	-1	3
21E6	-1	-1	-1	1	1	6	-1	5	2	-1	-1	3	2	5
21E7	-1	-1	-1	1	2	5	-1	5	2	-1	-1	3	3	6
21E8	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	1	1	1
21E9	-1	-1	-1	-1	-1	3	-1	3	-1	-1	-1	2	1	2
21E10	-1	-1	-1	1	1	4	-1	4	1	-1	-1	2	2	2
21E11	-1	-1	-1	-1	1	4	-1	4	-1	-1	-1	2	1	2
21E11-R	-1	-1	-1	1	1	4	-1	4	-1	-1	-1	2	2	2
21E12	-1	-1	-1	1	2	5	-1	6	2	-1	-1	2	2	4
22E1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	1	-1
22E2	-1	-1	-1	1	1	4	-1	4	2	-1	-1	2	2	5
22E3	-1	-1	-1	-1	-1	3	-1	3	-1	-1	-1	2	1	2
22E4	-1	1	-1	2	2	6	-1	7	4	-1	-1	3	2	8
22E5	-1	-1	-1	1	1	4	-1	4	1	-1	-1	2	-1	3
22E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E7	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	-1
22E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	2
22E10	-1	-1	-1	1	2	5	-1	5	2	-1	-1	2	2	2
22E11	-1	-1	-1	-1	1	3	-1	3	-1	-1	-1	1	1	2
22E12	-1	-1	-1	-1	-1	3	-1	3	-1	-1	-1	1	1	-1
22E13	-1	-1	-1	-1	1	4	-1	4	1	-1	-1	2	2	2
23E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
23E1-R	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	1	-1
23E2	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	1	-1	3
23E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
23E4	2	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E6	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	-1	-1
23E7	-1	-1	-1	-1	-1	3	-1	3	2	-1	-1	2	1	4
23E8	-1	-1	-1	1	1	5	-1	5	5	-1	-1	3	2	7
1450E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E3	-1	1	-1	1	2	-1	-1	1	-1	-1	-1	-1	2	2
1450E4	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	1	1	1
1450E5	-1	-1	-1	1	1	6	-1	6	3	-1	-1	3	3	7
1450E6	-1	-1	-1	1	1	4	-1	5	-1	-1	-1	2	-1	3
1450E7	-1	-1	-1	1	1	4	-1	4	2	-1	-1	3	2	6
1450E8	-1	-1	-1	1	1	3	-1	4	3	-1	-1	3	1	6
1450E8-R	-1	-1	-1	1	1	4	-1	4	3	-1	-1	3	1	7

	015 - LAR	016 - LB	017 - LB	018 - LB	019 - LB	020 - LA	021 - LPH	022 - LBA	023 - LAR	024 - LB	025 - LAR	026 - LBA	027 - LB	028 - ALK
1450E9	-1	-1	-1	1	1	3	-1	4	3	-1	-1	3	2	7
14E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1
14E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E3	-1	1	-1	2	2	4	-1	4	-1	-1	-1	1	2	1
14E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E6	-1	-1	-1	-1	1	2	-1	2	-1	-1	-1	-1	1	-1
14E7	-1	-1	-1	1	1	2	-1	3	2	-1	-1	2	2	6
14E8	-1	-1	-1	1	1	2	-1	2	3	-1	-1	2	2	5
14E9	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	2	-1	2
1550E1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	1	-1
1550E2	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	1
1550E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
1550E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E5-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E6	-1	-1	-1	1	1	3	-1	3	2	-1	-1	4	-1	2
1550E7	-1	-1	-1	-1	1	4	-1	3	2	-1	-1	3	1	5
1550E7D	-1	-1	-1	-1	-1	2	-1	2	1	-1	-1	2	1	4
1550E8	-1	-1	-1	-1	-1	2	-1	2	1	-1	-1	3	1	3
1550E9	-1	-1	-1	-1	1	3	-1	3	1	-1	-1	2	1	3
15E1	-1	-1	-1	-1	1	1	-1	1	-1	-1	-1	1	1	-1
15E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E3	-1	1	3	2	3	-1	-1	1	-1	-1	-1	-1	1	-1
15E4	-1	-1	-1	1	2	3	-1	3	2	-1	-1	2	2	4
15E5	-1	1	-1	2	2	7	-1	7	6	-1	-1	4	3	11
15E6	-1	-1	-1	1	1	7	-1	6	1	-1	-1	3	2	7
15E7	-1	1	-1	2	2	8	-1	7	4	-1	-1	4	4	10
15E8	-1	-1	-1	1	1	4	-1	4	3	-1	-1	3	2	2
15E9	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	1	-1	2
1650E1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	-1	-1	-1
1650E1-R	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	-1	-1	-1
1650E2	-1	-1	-1	-1	-1	2	-1	3	-1	-1	-1	1	-1	2
1650E3	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	1	-1	2
1650E4	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	1	-1	2
1650E5	-1	-1	-1	1	1	7	-1	8	2	-1	-1	4	2	6
1650E6	-1	-1	-1	-1	-1	3	-1	3	1	-1	-1	2	1	4
1650E7	-1	-1	-1	1	2	7	-1	6	3	-1	-1	4	1	8
1650E8	-1	1	-1	2	2	6	-1	6	3	-1	-1	4	3	8
1650E9	-1	-1	-1	1	1	6	-1	6	1	-1	-1	3	2	4
1650E10	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	2	-1	3
1650E11	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	1	1	2
1650E12	-1	-1	-1	1	1	4	-1	4	1	-1	-1	2	2	4
1650E13	-1	-1	-1	1	1	5	-1	5	1	-1	-1	3	2	6
1650E14	-1	-1	-1	-1	1	3	-1	3	-1	-1	-1	1	1	2
1650E14D	-1	-1	-1	-1	-1	3	-1	3	-1	-1	-1	1	-1	1
16E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E7	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	-1	-1

	015 - LAR	016 - LB	017 - LB	018 - LB	019 - LB	020 - LA	021 - LPH	022 - LBA	023 - LAR	024 - LB	025 - LAR	026 - LBA	027 - LB	028 - ALK
16E8	-1	-1	-1	-1	-1	2	-1	1	-1	-1	-1	-1	-1	2
16E9	-1	-1	-1	-1	-1	2	-1	1	-1	-1	-1	1	-1	3
1750E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E3	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	2	-1
1750E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3
1750E5	-1	-1	-1	2	2	9	-1	9	3	-1	-1	8	3	10
1750E6	-1	-1	-1	-1	-1	3	-1	3	-1	-1	-1	2	-1	1
1750E7	-1	-1	-1	-1	1	1	-1	1	-1	-1	-1	1	1	-1
1750E7-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
1750E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
17E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
17E4	-1	-1	-1	-1	-1	3	-1	2	-1	-1	-1	1	-1	2
17E5	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	-1	-1	1
17E6	-1	-1	-1	1	1	3	-1	3	-1	-1	-1	1	2	2
17E7	-1	1	-1	1	2	5	-1	5	2	-1	-1	2	3	3
17E7D	-1	-1	-1	1	1	4	-1	4	2	-1	-1	2	2	4
17E8	-1	-1	-1	-1	-1	3	-1	2	-1	-1	-1	2	1	3
17E9	-1	2	-1	2	3	4	-1	4	1	-1	-1	3	-1	6
17E10	-1	-1	-1	-1	-1	3	-1	3	-1	-1	-1	2	1	1
17E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
17E12	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	1	1
17E12-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1
17E13	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E4	-1	-1	-1	-1	-1	2	-1	3	-1	-1	-1	1	1	2
18E5	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	2	1	2
18E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E8	-1	-1	-1	-1	1	3	-1	3	1	-1	-1	2	-1	3
18E9	-1	-1	-1	1	1	-1	-1	-1	1	-1	-1	2	1	3
18E10	-1	-1	-1	-1	1	3	-1	3	-1	-1	-1	-1	2	2
19E1	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	-1	-1
19E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E3	-1	-1	-1	-1	-1	2	-1	3	-1	-1	-1	2	-1	2
19E4	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	-1	-1	1
19E4-R	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	-1	-1	1
19E5	-1	-1	-1	-1	-1	2	-1	2	-1	-1	-1	-1	-1	-1
19E6	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	-1	1
19E7	-1	1	-1	2	2	7	-1	6	3	-1	-1	3	3	5
19E8	-1	-1	-1	-1	-1	2	-1	1	-1	-1	-1	-1	-1	1
19E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E9D	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	015 - LAR	016 - LB	017 - LB	018 - LB	019 - LB	020 - LA	021 - LPH	022 - LBA	023 - LAR	024 - LB	025 - LAR	026 - LBA	027 - LB	028 - ALK

	029 - HB	030 - HB	031 - HB	032 - HB	033 - HB	034 - HB	035 - LAR	036 - LBA	037 - HB	038 - LBA	039 - LAR	040 - LPB	041 - LBA	042 - LPB
20E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
20E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
20E3	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
20E4	-1	-1	1	-1	-1	-1	-1	1	-1	1	-1	-1	9	-1
20E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
20E5-R	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9	-1
20E6	-1	-1	1	-1	-1	-1	-1	1	-1	1	-1	-1	10	-1
20E7	-1	-1	1	-1	-1	-1	-1	1	-1	1	-1	-1	19	-1
20E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
20E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
21E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
21E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
21E6	-1	-1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	8	-1
21E7	-1	-1	2	-1	-1	-1	-1	-1	-1	1	-1	-1	9	-1
21E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
21E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
21E10	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
21E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
21E11-R	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
21E12	-1	-1	1	-1	-1	-1	-1	1	-1	1	-1	-1	10	-1
22E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E2	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9	-1
22E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	5	-1
22E4	2	1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	20	-1
22E5	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
22E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E10	-1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	-1	12	-1
22E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
22E12	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
22E13	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
23E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
23E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
23E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
23E8	-1	1	2	-1	-1	-1	-1	1	-1	1	-1	-1	11	-1
1450E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1450E5	1	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	21	-1
1450E6	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	-1	5	-1
1450E7	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	6	-1
1450E8	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	6	-1
1450E8-R	1	1	-1	-1	-1	-1	-1	1	-1	1	-1	-1	12	-1

	029 - HB	030 - HB	031 - HB	032 - HB	033 - HB	034 - HB	035 - LAR	036 - LBA	037 - HB	038 - LBA	039 - LAR	040 - LPB	041 - LBA	042 - LPB
1450E9	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	7	-1
14E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
14E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
14E7	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
14E8	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
14E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E5-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	8	-1
1550E7	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1550E7D	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E8	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1550E9	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
15E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E3	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E4	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
15E5	3	1	3	-1	-1	-1	-1	2	-1	2	-1	-1	19	-1
15E6	1	-1	1	-1	-1	-1	-1	2	-1	2	-1	-1	8	-1
15E7	2	1	2	-1	-1	-1	-1	2	-1	2	-1	-1	14	-1
15E8	1	-1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	6	-1
15E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1650E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1650E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
1650E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1650E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1650E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
1650E5	1	-1	1	-1	-1	-1	-1	2	-1	2	-1	-1	17	-1
1650E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
1650E7	1	1	2	-1	-1	-1	-1	2	-1	2	-1	-1	15	-1
1650E8	1	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	11	-1
1650E9	1	-1	1	-1	-1	-1	-1	1	-1	1	-1	-1	17	-1
1650E10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1650E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1650E12	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1650E13	1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1650E14	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1650E14D	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
16E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	029 - HB	030 - HB	031 - HB	032 - HB	033 - HB	034 - HB	035 - LAR	036 - LBA	037 - HB	038 - LBA	039 - LAR	040 - LPB	041 - LBA	042 - LPB
16E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
16E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
1750E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E5	2	-1	2	-1	-1	-1	-1	2	-1	3	-1	-1	18	-1
1750E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
1750E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E7-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
17E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
17E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
17E7	1	-1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	11	-1
17E7D	-1	-1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	13	-1
17E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
17E9	1	-1	2	-1	-1	-1	-1	2	-1	2	-1	-1	1	-1
17E10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
17E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E12	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E12-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E13	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
18E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
18E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
18E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
18E10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
19E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
19E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	15	-1
19E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
19E4-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
19E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
19E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E7	1	-1	2	-1	-1	-1	-1	1	-1	2	-1	-1	13	-1
19E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E9D	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	029 - HB	030 - HB	031 - HB	032 - HB	033 - HB	034 - HB	035 - LAR	036 - LBA	037 - HB	038 - LBA	039 - LAR	040 - LPB	041 - LBA	042 - LPB

	043 - HB	044 - HB	045 - LA	046 - LPH	047 - LBA	048 - HB	049 -HB	050 - LBA	051 - LBI	052 - LPB	053 - LPB	054 - HB	055 - LPB	056 - LBI
20E1	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
20E2	-1	-1	3	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
20E3	-1	-1	3	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
20E4	-1	-1	9	-1	6	-1	-1	1	-1	-1	-1	-1	-1	-1
20E5	-1	-1	8	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
20E5-R	-1	-1	9	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
20E6	-1	-1	10	-1	5	-1	-1	1	-1	-1	-1	-1	-1	-1
20E7	-1	-1	19	1	12	-1	-1	2	-1	-1	-1	-1	-1	-1
20E8	-1	-1	5	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
20E9	-1	-1	4	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E3	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E5	-1	-1	4	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E6	-1	-1	7	-1	4	-1	-1	2	-1	-1	-1	-1	-1	-1
21E7	-1	-1	9	-1	5	-1	-1	1	-1	-1	-1	-1	-1	-1
21E8	-1	-1	3	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E9	-1	-1	4	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E10	-1	-1	8	-1	4	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E11	-1	-1	7	-1	4	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E11-R	-1	-1	6	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E12	-1	-1	10	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
22E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E2	-1	-1	9	-1	6	-1	-1	1	-1	-1	-1	-1	-1	-1
22E3	-1	-1	5	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E4	-1	-1	20	1	12	-1	-1	2	-1	-1	-1	-1	-1	-1
22E5	-1	-1	6	-1	4	-1	-1	1	-1	-1	-1	-1	-1	-1
22E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E10	-1	-1	12	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
22E11	-1	-1	3	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E12	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E13	-1	-1	5	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
23E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E2	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E6	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E7	-1	-1	5	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E8	-1	-1	11	-1	-1	-1	-1	2	-1	-1	-1	-1	-1	-1
1450E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E4	-1	-1	3	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E5	-1	-1	21	2	1	-1	-1	2	-1	-1	-1	-1	-1	-1
1450E6	-1	-1	5	-1	2	-1	-1	1	-1	-1	-1	-1	-1	-1
1450E7	-1	-1	6	-1	4	-1	-1	1	-1	-1	-1	-1	-1	-1
1450E8	-1	-1	6	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
1450E8-R	-1	-1	12	-1	1	-1	-1	2	-1	-1	-1	-1	-1	-1

	043 - HB	044 - HB	045 - LA	046 - LPH	047 - LBA	048 - HB	049 -HB	050 - LBA	051 - LBI	052 - LPB	053 - LPB	054 - HB	055 - LPB	056 - LBI
1450E9	-1	-1	7	-1	5	-1	-1	1	-1	-1	-1	-1	-1	-1
14E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E3	-1	-1	4	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
14E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E6	-1	-1	3	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E7	-1	-1	3	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E8	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E5-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E6	-1	-1	6	-1	5	-1	-1	2	-1	-1	-1	-1	-1	-1
1550E7	-1	-1	3	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E7D	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E8	-1	-1	3	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E9	-1	-1	4	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E4	-1	-1	4	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E5	-1	-1	19	1	1	-1	-1	2	-1	-1	-1	-1	-1	-1
15E6	-1	-1	7	-1	5	-1	-1	2	-1	-1	-1	-1	-1	-1
15E7	-1	-1	14	-1	7	-1	-1	2	-1	-1	-1	-1	-1	-1
15E8	-1	-1	6	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
15E9	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E1-R	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E2	-1	-1	4	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E3	-1	-1	3	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E4	-1	-1	5	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E5	-1	-1	17	1	2	-1	-1	2	-1	-1	-1	-1	-1	-1
1650E6	-1	-1	5	-1	4	-1	-1	1	-1	-1	-1	-1	-1	-1
1650E7	-1	-1	15	1	1	-1	-1	2	-1	-1	-1	-1	-1	-1
1650E8	-1	-1	11	-1	-1	-1	-1	2	-1	-1	-1	-1	-1	-1
1650E9	-1	-1	17	1	8	-1	-1	2	-1	-1	-1	-1	-1	-1
1650E10	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E11	-1	-1	3	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E12	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E13	-1	-1	4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E14	-1	-1	3	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E14D	-1	-1	3	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	043 - HB	044 - HB	045 - LA	046 - LPH	047 - LBA	048 - HB	049 -HB	050 - LBA	051 - LBI	052 - LPB	053 - LPB	054 - HB	055 - LPB	056 - LBI
16E8	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E9	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E5	-1	-1	18	1	2	-1	-1	3	-1	-1	-1	-1	-1	-1
1750E6	-1	-1	8	-1	5	-1	-1	1	-1	-1	-1	-1	-1	-1
1750E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E7-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E4	-1	-1	4	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E5	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E6	-1	-1	4	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E7	-1	-1	11	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
17E7D	-1	-1	13	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
17E8	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E9	-1	-1	1	-1	2	-1	-1	2	-1	-1	-1	-1	-1	-1
17E10	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E12	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E12-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E13	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E4	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E5	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E8	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E10	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E3	-1	-1	8	-1	9	-1	-1	2	-1	-1	-1	-1	-1	-1
19E4	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E4-R	-1	-1	2	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E5	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E7	-1	-1	13	-1	-1	-1	-1	2	-1	-1	-1	-1	-1	-1
19E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E9D	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	043 - HB	044 - HB	045 - LA	046 - LPH	047 - LBA	048 - HB	049 -HB	050 - LBA	051 - LBI	052 - LPB	053 - LPB	054 - HB	055 - LPB	056 - LBI

	057 - ALK	058 - LPB	059 - LPB	060 - LPH	061 - LBI	062 - LBA	063 - LPH	064 - LBA	065 - HPB	066 - LBA	067 - LBI	068 - HPB	069 - LA	070 - HPB
20E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
20E2	-1	-1	-1	-1	-1	-1	-1	1	-1	4	-1	-1	4	-1
20E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
20E4	-1	-1	-1	-1	-1	2	-1	2	-1	12	-1	-1	12	-1
20E5	-1	-1	-1	-1	-1	2	-1	2	-1	13	-1	-1	13	-1
20E5-R	-1	-1	-1	-1	-1	2	-1	2	-1	14	-1	-1	14	-1
20E6	-1	-1	-1	-1	-1	-1	-1	3	-1	13	-1	-1	13	-1
20E7	-1	-1	-1	-1	-1	3	-1	3	-1	29	2	-1	29	-1
20E8	-1	-1	-1	-1	-1	1	-1	-1	-1	8	-1	-1	8	-1
20E9	-1	-1	-1	-1	-1	1	-1	-1	-1	6	-1	-1	6	-1
21E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
21E4	-1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	-1	1	-1
21E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	4	-1
21E6	-1	-1	-1	-1	-1	2	-1	1	-1	11	-1	-1	11	-1
21E7	-1	-1	-1	-1	-1	2	-1	1	-1	10	-1	-1	10	-1
21E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
21E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
21E10	-1	-1	-1	-1	-1	2	-1	2	-1	11	-1	-1	11	-1
21E11	-1	-1	-1	-1	-1	2	-1	2	-1	9	-1	-1	10	-1
21E11-R	-1	-1	-1	-1	-1	2	-1	2	-1	7	-1	-1	7	-1
21E12	-1	-1	-1	-1	-1	2	-1	1	-1	16	-1	-1	16	-1
22E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E2	-1	-1	-1	-1	-1	2	-1	2	-1	16	-1	-1	16	-1
22E3	-1	-1	-1	-1	-1	1	-1	1	-1	6	-1	-1	6	-1
22E4	-1	-1	-1	-1	-1	3	-1	3	-1	26	1	-1	26	-1
22E5	-1	-1	-1	-1	-1	1	-1	1	-1	8	-1	-1	8	-1
22E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
22E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E10	-1	-1	-1	-1	-1	2	-1	3	-1	22	1	-1	22	-1
22E11	-1	-1	-1	-1	-1	1	-1	1	-1	2	-1	-1	2	-1
22E12	-1	-1	-1	-1	-1	1	-1	1	-1	6	-1	-1	6	-1
22E13	-1	-1	-1	-1	-1	2	-1	1	-1	8	-1	-1	8	-1
23E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
23E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
23E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E7	-1	-1	-1	-1	-1	1	-1	-1	-1	8	-1	-1	8	-1
23E8	-1	-1	-1	-1	-1	2	-1	1	-1	19	1	-1	19	-1
1450E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
1450E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
1450E5	-1	-1	-1	-1	-1	-1	-1	5	-1	35	2	-1	35	-1
1450E6	-1	-1	-1	-1	-1	1	-1	-1	-1	7	-1	-1	7	-1
1450E7	-1	-1	-1	-1	-1	2	-1	-1	-1	7	-1	-1	7	-1
1450E8	-1	-1	-1	-1	-1	2	-1	-1	-1	9	-1	-1	9	-1
1450E8-R	-1	-1	-1	-1	-1	3	-1	2	-1	18	1	-1	18	-1

	057 - ALK	058 - LPB	059 - LPB	060 - LPH	061 - LBI	062 - LBA	063 - LPH	064 - LBA	065 - HPB	066 - LBA	067 - LBI	068 - HPB	069 - LA	070 - HPB
1450E9	-1	-1	-1	-1	-1	2	-1	1	-1	9	-1	-1	9	-1
14E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
14E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E3	-1	-1	-1	-1	-1	2	-1	-1	-1	5	-1	-1	5	-1
14E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
14E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
14E6	-1	-1	-1	-1	-1	-1	-1	1	-1	5	-1	-1	5	-1
14E7	-1	-1	-1	-1	-1	1	-1	-1	-1	5	-1	-1	5	-1
14E8	-1	-1	-1	-1	-1	1	-1	-1	-1	5	-1	-1	5	-1
14E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
1550E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E5-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1550E6	-1	-1	-1	-1	-1	2	-1	-1	-1	8	-1	-1	8	-1
1550E7	-1	-1	-1	-1	-1	1	-1	-1	-1	5	-1	-1	5	-1
1550E7D	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
1550E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
1550E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
15E1	-1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	-1	1	-1
15E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
15E4	-1	-1	-1	-1	-1	1	-1	-1	-1	7	-1	-1	7	-1
15E5	-1	-1	-1	-1	-1	4	-1	2	-1	47	2	-1	48	-1
15E6	-1	-1	-1	-1	-1	2	-1	1	-1	9	-1	-1	9	-1
15E7	-1	-1	-1	1	-1	3	-1	1	-1	24	1	-1	24	-1
15E8	-1	-1	-1	-1	-1	2	-1	1	-1	10	-1	-1	10	-1
15E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
1650E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
1650E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
1650E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
1650E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
1650E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	5	-1
1650E5	-1	-1	-1	-1	-1	4	-1	4	-1	29	2	-1	30	-1
1650E6	-1	-1	-1	-1	-1	1	-1	-1	-1	7	-1	-1	7	-1
1650E7	-1	-1	-1	-1	-1	2	-1	2	-1	18	1	-1	18	-1
1650E8	-1	-1	-1	-1	-1	2	-1	1	-1	11	-1	-1	11	-1
1650E9	-1	-1	-1	-1	-1	3	-1	3	-1	20	1	-1	20	-1
1650E10	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
1650E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
1650E12	-1	-1	-1	-1	-1	1	-1	-1	-1	6	-1	-1	6	-1
1650E13	-1	-1	-1	-1	-1	1	-1	-1	-1	6	-1	-1	6	-1
1650E14	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
1650E14D	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
16E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1

	057 - ALK	058 - LPB	059 - LPB	060 - LPH	061 - LBI	062 - LBA	063 - LPH	064 - LBA	065 - HPB	066 - LBA	067 - LBI	068 - HPB	069 - LA	070 - HPB
16E8	-1	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	2	-1
16E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
1750E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E4	-1	-1	-1	-1	-1	1	-1	2	-1	2	-1	-1	2	-1
1750E5	1	-1	-1	2	-1	5	1	6	-1	44	2	-1	44	-1
1750E6	-1	-1	-1	-1	-1	2	-1	2	-1	10	-1	-1	10	-1
1750E7	-1	-1	-1	-1	-1	1	-1	2	-1	3	-1	-1	3	-1
1750E7-R	-1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	-1	1	-1
1750E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1750E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
17E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E4	-1	-1	-1	-1	-1	1	-1	1	-1	7	-1	-1	7	-1
17E5	-1	-1	-1	-1	-1	-1	-1	1	-1	4	-1	-1	4	-1
17E6	-1	-1	-1	-1	-1	1	-1	-1	-1	7	-1	-1	7	-1
17E7	-1	-1	-1	-1	-1	2	-1	2	-1	19	1	-1	19	-1
17E7D	-1	-1	-1	1	-1	-1	-1	3	-1	24	1	-1	24	-1
17E8	-1	-1	-1	-1	-1	1	-1	2	-1	5	-1	-1	5	-1
17E9	-1	-1	-1	1	-1	-1	-1	1	-1	3	-1	-1	3	-1
17E10	-1	-1	-1	-1	-1	1	-1	2	-1	2	-1	-1	2	-1
17E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E12	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	-1	1	-1
17E12-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
17E13	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E4	-1	-1	-1	-1	-1	2	-1	2	-1	8	-1	-1	8	-1
18E5	-1	-1	-1	-1	-1	-1	-1	1	-1	3	-1	-1	3	-1
18E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
18E8	-1	-1	-1	-1	-1	-1	-1	2	-1	3	-1	-1	3	-1
18E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
18E10	-1	-1	-1	-1	-1	2	-1	2	-1	4	-1	-1	4	-1
19E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
19E2	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	1	-1
19E3	-1	-1	-1	-1	-1	1	-1	2	-1	6	-1	-1	6	-1
19E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	3	-1
19E4-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
19E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
19E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E7	-1	-1	-1	1	-1	3	-1	1	-1	24	1	-1	24	-1
19E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
19E9D	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	057 - ALK	058 - LPB	059 - LPB	060 - LPH	061 - LBI	062 - LBA	063 - LPH	064 - LBA	065 - HPB	066 - LBA	067 - LBI	068 - HPB	069 - LA	070 - HPB

	071 - HPB	072 - HPB	073 - HBA	074 - HBA	075 - HPB	076 - LPH	077 - MAR	078 - ALK	079 - LBI	080 - LPH	081 - MAR	082 - LPH	083 - HBA	084 - HBA
20E1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
20E2	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
20E3	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
20E4	-1	-1	2	2	-1	-1	-1	1	-1	-1	-1	-1	3	-1
20E5	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
20E5-R	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
20E6	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
20E7	-1	-1	4	3	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
20E8	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
20E9	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
21E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
21E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
21E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
21E4	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
21E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
21E6	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
21E7	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
21E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
21E9	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
21E10	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
21E11	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
21E11-R	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
21E12	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
22E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E2	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
22E3	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
22E4	-1	-1	4	3	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
22E5	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
22E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
22E7	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
22E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
22E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
22E10	-1	-1	4	3	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
22E11	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
22E12	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
22E13	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
23E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
23E1-R	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
23E2	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
23E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
23E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
23E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
23E7	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
23E8	-1	-1	4	4	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1450E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1450E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1450E4	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1450E5	-1	-1	6	6	-1	-1	-1	1	-1	-1	-1	-1	7	-1
1450E6	-1	-1	2	2	-1	-1	-1	1	-1	-1	-1	-1	6	-1
1450E7	-1	-1	2	2	-1	-1	-1	1	-1	-1	-1	-1	5	-1
1450E8	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
1450E8-R	-1	-1	4	4	-1	-1	-1	-1	-1	-1	-1	-1	5	-1

	071 - HPB	072 - HPB	073 - HBA	074 - HBA	075 - HPB	076 - LPH	077 - MAR	078 - ALK	079 - LBI	080 - LPH	081 - MAR	082 - LPH	083 - HBA	084 - HBA
1450E9	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
14E1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
14E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
14E3	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
14E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
14E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
14E6	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
14E7	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
14E8	-1	-1	2	-1	-1	-1	-1	1	-1	-1	-1	-1	5	-1
14E9	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1550E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1550E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E5-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E6	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
1550E7	-1	-1	2	1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
1550E7D	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1550E8	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1550E9	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
15E1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
15E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
15E3	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
15E4	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
15E5	-1	-1	7	7	-1	-1	-1	1	-1	-1	-1	-1	23	1
15E6	-1	-1	2	-1	-1	-1	-1	1	-1	-1	-1	-1	7	-1
15E7	-1	-1	4	4	-1	-1	-1	-1	-1	-1	-1	-1	13	-1
15E8	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
15E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1650E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1650E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1650E2	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1650E3	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1650E4	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1650E5	-1	-1	5	5	-1	-1	-1	-1	-1	-1	-1	-1	15	-1
1650E6	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
1650E7	-1	-1	4	1	-1	-1	-1	-1	-1	-1	-1	-1	10	-1
1650E8	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
1650E9	-1	-1	3	1	-1	-1	-1	2	-1	-1	-1	-1	2	-1
1650E10	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1650E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1650E12	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1650E13	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
1650E14	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1650E14D	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
16E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
16E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
16E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
16E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
16E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
16E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1

	071 - HPB	072 - HPB	073 - HBA	074 - HBA	075 - HPB	076 - LPH	077 - MAR	078 - ALK	079 - LBI	080 - LPH	081 - MAR	082 - LPH	083 - HBA	084 - HBA
16E8	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
16E9	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1750E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1750E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1750E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1750E4	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
1750E5	-1	-1	7	4	-1	-1	-1	2	-1	-1	-1	-1	20	-1
1750E6	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
1750E7	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
1750E7-R	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1750E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1750E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
17E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
17E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
17E4	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
17E5	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E6	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E7	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
17E7D	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
17E8	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
17E9	-1	-1	3	2	-1	-1	-1	2	-1	-1	-1	-1	7	-1
17E10	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
17E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
17E12	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
17E12-R	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
17E13	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
18E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
18E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
18E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
18E4	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
18E5	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
18E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
18E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
18E8	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
18E9	-1	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
18E10	-1	-1	2	2	-1	-1	-1	1	-1	-1	-1	-1	3	-1
19E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
19E2	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
19E3	-1	-1	2	2	-1	-1	-1	1	-1	-1	-1	-1	5	-1
19E4	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
19E4-R	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
19E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
19E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
19E7	-1	-1	4	4	-1	-1	-1	2	-1	-1	-1	-1	12	-1
19E8	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
19E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
19E9D	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	071 - HPB	072 - HPB	073 - HBA	074 - HBA	075 - HPB	076 - LPH	077 - MAR	078 - ALK	079 - LBI	080 - LPH	081 - MAR	082 - LPH	083 - HBA	084 - HBA

	085 - LPH	086 - LBI	087 - MAR	088 - HBA	089 - THI	090 - HPB	091 - LBI	092 - LPH	093 - LA	094 - LBI	095 - MAR	096 - LPH	097 - HBA	098 - THI
20E1	4	-1	-1	4	-1	-1	-1	-1	8	-1	-1	-1	8	-1
20E2	4	-1	-1	3	-1	-1	-1	-1	6	-1	-1	-1	6	-1
20E3	4	-1	-1	3	-1	-1	-1	-1	6	-1	-1	-1	6	-1
20E4	8	-1	-1	4	-1	-1	-1	-1	20	1	-1	-1	19	-1
20E5	7	-1	-1	6	-1	1	-1	-1	13	1	-1	-1	13	1
20E5-R	8	-1	-1	8	-1	1	-1	-1	16	1	-1	-1	16	1
20E6	8	1	-1	7	-1	-1	-1	-1	13	1	-1	-1	13	1
20E7	13	1	-1	12	-1	1	-1	-1	31	2	-1	1	30	2
20E8	6	-1	-1	7	-1	-1	-1	-1	13	1	-1	-1	12	1
20E9	5	-1	-1	2	-1	-1	-1	-1	10	-1	-1	-1	10	1
21E1	1	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
21E2	1	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
21E3	3	-1	-1	3	-1	-1	-1	-1	3	-1	-1	-1	2	-1
21E4	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
21E5	3	-1	-1	3	-1	-1	-1	-1	5	-1	-1	-1	5	-1
21E6	8	1	1	8	-1	-1	-1	-1	17	1	-1	-1	15	1
21E7	6	-1	-1	6	-1	-1	-1	-1	10	-1	-1	-1	10	1
21E8	3	-1	-1	3	-1	-1	-1	-1	4	-1	-1	-1	4	-1
21E9	4	-1	-1	1	-1	-1	-1	-1	7	-1	-1	-1	6	-1
21E10	7	-1	-1	7	-1	-1	-1	-1	13	1	-1	-1	13	-1
21E11	6	-1	-1	6	-1	-1	-1	-1	11	-1	-1	-1	11	-1
21E11-R	5	-1	-1	5	-1	-1	-1	-1	9	-1	-1	-1	9	1
21E12	9	1	-1	9	-1	1	-1	-1	22	1	-1	1	22	2
22E1	2	-1	1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
22E2	10	1	-1	10	-1	-1	-1	-1	24	2	-1	-1	24	2
22E3	5	-1	-1	3	-1	-1	-1	-1	12	-1	-1	-1	9	-1
22E4	15	1	-1	15	-1	1	1	-1	38	2	1	1	38	2
22E5	6	-1	1	2	-1	1	-1	-1	11	-1	-1	-1	11	1
22E6	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
22E7	3	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	-1	3	-1
22E8	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
22E9	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
22E10	13	1	-1	13	-1	-1	-1	-1	30	2	-1	1	30	2
22E11	3	-1	-1	3	-1	-1	-1	-1	3	-1	-1	-1	-1	-1
22E12	5	-1	-1	5	-1	-1	-1	-1	8	-1	-1	-1	8	-1
22E13	6	-1	-1	5	-1	-1	-1	-1	11	-1	-1	-1	10	-1
23E1	2	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
23E1-R	3	-1	1	3	-1	-1	-1	-1	2	-1	-1	-1	3	-1
23E2	4	-1	-1	1	-1	-1	-1	-1	7	-1	-1	-1	7	-1
23E3	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
23E4	2	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
23E5	2	-1	-1	2	-1	-1	-1	-1	1	-1	-1	-1	1	-1
23E6	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	-1	2	-1
23E7	6	-1	-1	6	-1	-1	-1	-1	13	1	1	-1	12	1
23E8	12	1	-1	12	-1	-1	-1	-1	25	2	-1	1	25	2
1450E1	2	-1	1	-1	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1450E2	1	-1	1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1450E3	2	-1	1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1450E4	4	-1	-1	4	-1	-1	-1	-1	6	-1	-1	-1	6	-1
1450E5	19	1	-1	18	-1	1	-1	-1	47	2	-1	1	48	3
1450E6	6	-1	-1	6	-1	-1	-1	-1	10	-1	-1	-1	10	1
1450E7	6	-1	1	7	-1	-1	-1	-1	11	-1	-1	-1	11	-1
1450E8	7	1	-1	7	-1	-1	-1	-1	14	1	-1	-1	13	1
1450E8-R	12	1	-1	12	-1	1	-1	-1	27	2	-1	1	27	2

	085 - LPH	086 - LBI	087 - MAR	088 - HBA	089 - THI	090 - HPB	091 - LBI	092 - LPH	093 - LA	094 - LBI	095 - MAR	096 - LPH	097 - HBA	098 - THI
1450E9	8	1	-1	8	-1	-1	-1	-1	16	1	-1	-1	16	1
14E1	3	-1	1	3	-1	-1	-1	-1	2	-1	-1	-1	3	-1
14E2	1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
14E3	6	1	2	7	-1	-1	-1	-1	9	-1	1	1	9	1
14E4	2	-1	2	-1	-1	-1	-1	-1	2	-1	-1	-1	2	-1
14E5	2	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
14E6	5	-1	1	5	-1	-1	-1	-1	7	-1	-1	-1	7	-1
14E7	5	-1	-1	5	-1	-1	-1	-1	9	-1	-1	-1	9	1
14E8	7	-1	-1	7	-1	-1	-1	-1	17	1	-1	-1	17	1
14E9	3	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
1550E1	2	-1	1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1550E2	2	-1	1	3	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1550E3	2	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E4	2	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E5	2	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1550E5-R	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1550E6	7	1	-1	7	-1	-1	-1	-1	15	1	-1	1	15	1
1550E7	5	-1	-1	5	-1	-1	-1	-1	9	-1	-1	-1	9	1
1550E7D	2	-1	-1	3	-1	-1	-1	-1	5	-1	-1	-1	5	-1
1550E8	3	-1	-1	3	-1	-1	-1	-1	6	-1	-1	-1	6	-1
1550E9	2	-1	-1	3	-1	-1	-1	-1	4	-1	-1	-1	4	-1
15E1	3	-1	1	3	-1	-1	-1	-1	2	-1	-1	-1	-1	-1
15E2	2	-1	2	2	-1	1	-1	-1	2	-1	-1	-1	2	-1
15E3	3	-1	1	-1	-1	-1	-1	-1	3	-1	-1	-1	3	-1
15E4	6	-1	1	6	-1	-1	-1	-1	10	-1	-1	-1	10	1
15E5	28	2	-1	25	-1	1	1	1	91	4	1	2	94	5
15E6	7	1	1	8	-1	-1	-1	-1	14	1	-1	1	14	-1
15E7	15	1	1	15	-1	1	-1	-1	33	2	-1	-1	35	2
15E8	7	1	-1	8	-1	-1	-1	-1	15	1	-1	-1	15	1
15E9	3	-1	-1	3	-1	-1	-1	-1	5	-1	-1	-1	5	-1
1650E1	3	-1	-1	3	-1	-1	-1	-1	3	-1	-1	-1	3	-1
1650E1-R	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1650E2	4	-1	-1	1	-1	-1	-1	-1	6	-1	-1	-1	6	-1
1650E3	4	-1	-1	4	-1	-1	-1	-1	5	-1	-1	-1	5	-1
1650E4	4	-1	-1	1	-1	-1	-1	-1	7	-1	-1	-1	7	-1
1650E5	16	1	-1	17	-1	-1	-1	-1	37	2	-1	1	39	2
1650E6	6	-1	-1	7	-1	-1	-1	-1	11	-1	-1	-1	12	-1
1650E7	11	1	-1	11	-1	-1	-1	-1	21	1	-1	1	22	2
1650E8	8	1	-1	8	-1	-1	-1	-1	13	1	-1	1	13	-1
1650E9	13	1	-1	13	-1	-1	-1	-1	21	1	-1	1	22	2
1650E10	3	-1	-1	4	-1	-1	-1	-1	5	-1	-1	-1	5	-1
1650E11	3	-1	-1	3	-1	-1	-1	-1	6	-1	-1	-1	6	-1
1650E12	6	-1	-1	6	-1	-1	-1	-1	10	-1	-1	-1	10	-1
1650E13	5	-1	-1	5	-1	-1	-1	-1	8	-1	-1	-1	8	-1
1650E14	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	-1	3	-1
1650E14D	3	-1	-1	1	-1	1	-1	-1	-1	-1	-1	-1	3	-1
16E1	1	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
16E1-R	1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
16E2	-1	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	1	-1
16E3	1	-1	-1	2	-1	-1	-1	-1	1	-1	-1	-1	1	-1
16E4	1	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
16E5	-1	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
16E6	1	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
16E7	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	-1	3	-1

	085 - LPH	086 - LBI	087 - MAR	088 - HBA	089 - THI	090 - HPB	091 - LBI	092 - LPH	093 - LA	094 - LBI	095 - MAR	096 - LPH	097 - HBA	098 - THI
16E8	3	-1	-1	3	-1	-1	-1	-1	3	-1	-1	-1	3	-1
16E9	3	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	-1	3	-1
1750E1	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1750E2	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1750E3	2	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
1750E4	4	-1	-1	5	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
1750E5	25	2	-1	26	-1	1	1	1	62	3	1	2	65	4
1750E6	7	-1	1	4	-1	-1	-1	-1	18	1	-1	-1	17	1
1750E7	5	-1	-1	5	-1	-1	-1	-1	5	-1	-1	-1	-1	-1
1750E7-R	3	-1	-1	4	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
1750E8	1	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
1750E9	2	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	-1	2	-1
17E1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
17E2	1	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
17E3	2	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
17E4	5	-1	-1	5	-1	-1	-1	-1	10	-1	-1	-1	10	-1
17E5	3	-1	-1	3	-1	-1	-1	-1	5	-1	-1	-1	5	-1
17E6	5	-1	-1	5	-1	-1	-1	-1	7	-1	-1	-1	8	-1
17E7	9	1	1	9	-1	-1	-1	-1	18	1	-1	1	18	2
17E7D	9	1	-1	8	-1	-1	-1	-1	17	1	-1	-1	17	-1
17E8	4	-1	-1	4	-1	-1	-1	-1	5	-1	-1	-1	4	-1
17E9	6	1	-1	7	-1	1	-1	-1	2	-1	-1	1	7	-1
17E10	4	-1	-1	4	-1	-1	-1	-1	3	-1	-1	-1	4	-1
17E11	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
17E12	3	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
17E12-R	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
17E13	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
18E1	2	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	-1	2	-1
18E2	1	-1	-1	2	-1	-1	-1	-1	1	-1	-1	-1	1	-1
18E3	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
18E4	8	1	-1	8	-1	-1	-1	-1	13	1	-1	-1	14	1
18E5	3	-1	-1	4	-1	-1	-1	-1	5	-1	-1	-1	4	-1
18E6	1	-1	-1	1	-1	-1	-1	-1	2	-1	-1	-1	1	-1
18E7	-1	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
18E8	4	-1	-1	4	-1	-1	-1	-1	5	-1	-1	-1	5	-1
18E9	3	-1	-1	-1	-1	1	-1	-1	4	-1	-1	-1	3	-1
18E10	6	-1	-1	6	-1	-1	-1	-1	5	-1	-1	-1	5	-1
19E1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
19E2	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
19E3	5	-1	-1	2	-1	-1	-1	-1	10	-1	-1	-1	10	-1
19E4	3	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	-1	3	-1
19E4-R	4	-1	-1	1	-1	-1	-1	-1	4	-1	-1	-1	4	-1
19E5	3	-1	-1	3	-1	-1	-1	-1	3	-1	-1	-1	3	-1
19E6	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
19E7	14	1	-1	13	-1	-1	-1	-1	30	2	-1	1	30	2
19E8	-1	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
19E9	-1	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	2	-1
19E9D	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
LMB-QA	-1	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
LMB-QA	1	-1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	1	-1

	085 - LPH	086 - LBI	087 - MAR	088 - HBA	089 - THI	090 - HPB	091 - LBI	092 - LPH	093 - LA	094 - LBI	095 - MAR	096 - LPH	097 - HBA	098 - THI

	099 - LPH	100 - LPH	101 - MAR	102 - MBI	103 - LPH	104 - MAR	105 - ALK	106 - MBI	107 - MBI	108 - LPH	109 - MAR	110 - HBA	111 - MAR	112 - MBI
20E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	2	-1	4
20E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	4
20E3	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	9	-1	-1
20E4	-1	-1	-1	-1	-1	-1	2	-1	-1	4	3	15	3	5
20E5	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	12	-1	5
20E5-R	-1	-1	-1	-1	-1	1	1	-1	-1	4	3	14	-1	5
20E6	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	14	3	1
20E7	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	19	3	5
20E8	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	13	-1	5
20E9	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	4
21E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
21E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	5	-1	-1
21E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
21E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
21E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
21E6	-1	-1	-1	-1	-1	-1	2	-1	-1	4	3	16	-1	5
21E7	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	12	-1	5
21E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	4
21E9	-1	-1	-1	-1	-1	-1	2	-1	-1	4	3	9	-1	4
21E10	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	12	-1	5
21E11	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	1
21E11-R	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	10	-1	4
21E12	1	1	-1	-1	1	1	2	-1	-1	4	3	18	3	5
22E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	-1
22E2	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	16	3	5
22E3	-1	-1	-1	-1	-1	-1	2	-1	-1	4	3	13	-1	5
22E4	1	1	-1	-1	1	1	3	-1	-1	5	4	23	4	5
22E5	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	13	3	5
22E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
22E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	10	-1	4
22E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
22E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
22E10	1	1	-1	-1	1	1	2	-1	-1	4	3	22	4	1
22E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
22E12	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	4
22E13	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	13	-1	1
23E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
23E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
23E2	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	10	-1	4
23E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	4
23E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	1
23E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
23E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
23E7	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	1
23E8	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	19	4	5
1450E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
1450E2	-1	-1	-1	-1	-1	1	-1	-1	-1	4	3	7	-1	1
1450E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	4
1450E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	1
1450E5	1	1	-1	-1	-1	1	3	-1	-1	4	3	27	3	5
1450E6	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	15	-1	5
1450E7	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	16	-1	5
1450E8	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	15	-1	5
1450E8-R	1	1	-1	-1	-1	1	3	-1	-1	4	3	22	3	1

	099 - LPH	100 - LPH	101 - MAR	102 - MBI	103 - LPH	104 - MAR	105 - ALK	106 - MBI	107 - MBI	108 - LPH	109 - MAR	110 - HBA	111 - MAR	112 - MBI
1450E9	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	18	-1	5
14E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	10	-1	4
14E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	1
14E3	1	1	-1	-1	1	-1	2	-1	-1	4	3	15	-1	5
14E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	1
14E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	-1
14E6	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	4
14E7	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	12	-1	5
14E8	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	18	3	5
14E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	10	-1	4
1550E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	-1
1550E2	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	9	-1	1
1550E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	1
1550E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	1
1550E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
1550E5-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	4
1550E6	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	17	-1	5
1550E7	-1	-1	-1	-1	-1	1	1	-1	-1	4	3	13	-1	5
1550E7D	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	10	-1	1
1550E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
1550E9	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	10	-1	4
15E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
15E2	-1	-1	-1	-1	-1	1	-1	-1	-1	4	3	8	-1	4
15E3	-1	-1	-1	-1	-1	1	-1	-1	-1	4	3	9	-1	4
15E4	-1	-1	-1	-1	-1	1	1	-1	-1	4	3	14	-1	5
15E5	1	1	1	-1	1	2	5	-1	-1	5	5	23	4	7
15E6	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	17	3	5
15E7	1	1	1	-1	1	1	3	-1	-1	4	4	14	3	5
15E8	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	17	-1	5
15E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	-1
1650E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	-1
1650E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	1
1650E2	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	10	-1	4
1650E3	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	10	-1	-1
1650E4	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	10	-1	1
1650E5	1	1	1	-1	1	1	3	-1	-1	5	4	32	4	6
1650E6	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	16	3	5
1650E7	1	-1	-1	-1	-1	1	2	-1	-1	4	4	22	4	5
1650E8	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	17	3	5
1650E9	1	1	-1	-1	-1	1	3	-1	-1	4	4	23	3	5
1650E10	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	1
1650E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	10	-1	4
1650E12	-1	-1	-1	-1	-1	-1	2	-1	-1	4	3	16	-1	5
1650E13	-1	-1	-1	-1	-1	1	1	-1	-1	4	3	12	-1	1
1650E14	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	4
1650E14D	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	13	-1	5
16E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	5	-1	-1
16E1-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	5	-1	-1
16E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
16E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
16E4	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	5	-1	-1
16E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	5	-1	-1
16E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
16E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	-1

	099 - LPH	100 - LPH	101 - MAR	102 - MBI	103 - LPH	104 - MAR	105 - ALK	106 - MBI	107 - MBI	108 - LPH	109 - MAR	110 - HBA	111 - MAR	112 - MBI
16E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	10	-1	5
16E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	10	-1	4
1750E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	-1
1750E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
1750E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	9	-1	4
1750E4	-1	-1	-1	-1	-1	1	1	-1	-1	4	3	16	3	5
1750E5	1	1	1	-1	-1	2	4	-1	-1	5	4	21	4	7
1750E6	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	16	3	5
1750E7	-1	-1	-1	-1	-1	1	1	-1	-1	4	3	16	4	5
1750E7-R	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	13	3	4
1750E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
1750E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
17E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	1
17E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
17E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	1
17E4	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	12	-1	5
17E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	4
17E6	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	2	-1	5
17E7	-1	-1	-1	-1	1	1	2	-1	-1	4	3	15	-1	1
17E7D	-1	-1	-1	-1	-1	1	1	-1	-1	4	3	13	-1	1
17E8	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	5
17E9	-1	-1	-1	-1	1	1	2	-1	-1	5	3	19	4	5
17E10	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	12	3	4
17E11	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	4
17E12	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	11	-1	4
17E12-R	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	4
17E13	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
18E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
18E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
18E3	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	4
18E4	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	18	4	5
18E5	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	11	-1	1
18E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
18E7	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
18E8	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	13	3	5
18E9	-1	-1	-1	-1	-1	1	1	-1	-1	4	3	2	3	5
18E10	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	12	3	4
19E1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
19E2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	-1
19E3	-1	-1	-1	-1	-1	1	2	-1	-1	4	3	13	-1	1
19E4	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	9	-1	-1
19E4-R	-1	-1	-1	-1	-1	-1	1	-1	-1	4	3	8	-1	-1
19E5	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	-1
19E6	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	8	-1	-1
19E7	-1	1	-1	-1	1	1	3	-1	-1	5	3	24	4	1
19E8	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
19E9	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	7	-1	-1
19E9D	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	6	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	5	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	5	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	3	5	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	5	-1	-1

	099 - LPH	100 - LPH	101 - MAR	102 - MBI	103 - LPH	104 - MAR	105 - ALK	106 - MBI	107 - MBI	108 - LPH	109 - MAR	110 - HBA	111 - MAR	112 - MBI

	113 -HBA	114 - MBI	115 - MBI	116 - MAR	117 - HA	118 - MPH	119 - HBA	120 - THI	121 - MPH	122 - MPH	123 - MPH	124 - MBI	125 - HAR	126 - MPH
20E1	11	5	5	2	17	3	13	-1	4	4	3	4	2	3
20E2	10	7	9	2	19	3	10	-1	4	4	3	4	2	3
20E3	10	15	20	2	17	3	2	-1	4	4	3	5	2	3
20E4	16	14	17	2	40	3	18	-1	4	4	3	5	2	4
20E5	12	11	13	2	23	3	3	-1	4	4	4	4	2	3
20E5-R	14	14	18	2	17	3	2	-1	4	4	4	5	2	3
20E6	15	20	27	2	27	4	15	-1	4	4	4	6	2	4
20E7	20	16	20	2	50	4	20	-1	4	4	4	5	2	4
20E8	12	27	36	-1	50	3	15	3	4	5	4	6	2	4
20E9	12	10	12	-1	23	3	3	-1	4	4	4	4	2	3
21E1	7	5	9	-1	8	3	6	-1	4	4	3	4	2	3
21E2	6	-1	5	-1	7	3	6	-1	-1	3	3	4	2	3
21E3	8	3	7	-1	12	-1	8	-1	4	4	3	4	2	-1
21E4	9	3	7	-1	10	-1	9	-1	4	4	3	4	2	-1
21E5	9	8	10	2	12	3	10	-1	4	4	3	4	2	3
21E6	17	19	24	-1	45	3	16	-1	4	4	4	5	2	4
21E7	12	16	20	2	20	3	2	-1	4	4	3	5	2	3
21E8	8	8	10	2	12	3	2	-1	4	4	3	4	2	3
21E9	2	16	21	2	47	3	13	-1	4	6	3	5	3	3
21E10	12	10	12	2	18	3	3	-1	-1	4	3	4	2	3
21E11	13	6	7	2	14	3	2	-1	4	4	3	4	2	3
21E11-R	11	9	10	2	18	3	3	-1	4	4	3	4	2	3
21E12	18	13	16	2	24	4	18	-1	4	4	4	5	2	4
22E1	8	8	10	-1	11	3	8	-1	4	4	3	4	2	3
22E2	17	20	26	2	44	3	9	-1	-1	4	3	5	2	4
22E3	12	21	29	2	66	4	17	-1	4	7	4	6	3	4
22E4	24	32	44	2	76	4	26	4	-1	6	4	7	3	4
22E5	14	17	23	2	36	4	15	-1	4	5	4	5	3	3
22E6	8	2	6	-1	12	-1	8	-1	-1	4	3	4	2	3
22E7	11	7	9	-1	14	3	10	-1	4	4	3	4	2	3
22E8	6	-1	5	-1	10	-1	6	-1	-1	3	3	4	2	3
22E9	7	5	10	-1	8	3	7	-1	-1	3	3	4	2	-1
22E10	22	18	23	2	29	4	22	-1	4	4	4	5	2	4
22E11	10	13	17	-1	15	3	10	-1	4	4	3	4	2	3
22E12	12	10	12	-1	27	3	11	-1	4	4	3	4	2	3
22E13	14	15	19	2	23	3	13	-1	4	4	3	5	2	3
23E1	9	8	9	-1	9	3	8	-1	4	3	3	4	2	-1
23E1-R	10	11	13	-1	11	3	9	-1	4	4	3	5	2	3
23E2	10	11	13	-1	21	3	2	-1	4	8	-1	4	3	3
23E3	7	6	7	-1	8	-1	7	-1	4	3	-1	4	2	3
23E4	8	-1	5	-1	8	3	7	-1	4	3	3	4	2	-1
23E5	7	-1	4	-1	11	3	8	-1	-1	4	3	4	2	3
23E6	7	3	7	-1	13	3	7	-1	4	4	3	4	2	3
23E7	12	16	21	-1	23	3	2	-1	4	4	4	5	2	4
23E8	20	16	20	2	36	4	20	-1	4	4	4	5	3	4
1450E1	7	5	4	-1	8	3	7	-1	4	3	3	4	2	3
1450E2	7	-1	5	-1	7	3	6	-1	-1	3	3	4	2	3
1450E3	8	6	6	-1	8	3	7	-1	-1	4	3	4	3	4
1450E4	10	10	12	2	15	3	10	-1	4	4	3	4	2	3
1450E5	30	11	13	2	49	4	28	-1	4	4	4	5	3	4
1450E6	15	9	11	2	19	3	15	-1	4	4	4	5	2	3
1450E7	16	14	17	2	25	3	16	-1	4	4	4	5	3	3
1450E8	16	15	19	2	32	4	16	-1	4	4	3	5	2	3
1450E8-R	24	17	22	2	49	4	24	-1	-1	4	4	5	3	4

	113 -HBA	114 - MBI	115 - MBI	116 - MAR	117 - HA	118 - MPH	119 - HBA	120 - THI	121 - MPH	122 - MPH	123 - MPH	124 - MBI	125 - HAR	126 - MPH
1450E9	19	15	19	2	34	4	20	3	4	4	4	5	3	4
14E1	10	5	5	-1	11	3	9	-1	4	4	3	4	3	3
14E2	8	-1	6	-1	9	-1	7	-1	4	4	-1	4	2	3
14E3	15	7	8	2	19	4	15	3	4	4	-1	5	4	4
14E4	8	5	5	-1	9	3	2	-1	-1	4	3	4	3	3
14E5	8	5	5	-1	10	3	8	-1	4	4	3	4	2	3
14E6	11	5	5	2	12	3	10	-1	-1	4	3	4	2	3
14E7	13	10	12	2	20	3	3	-1	4	4	4	5	2	4
14E8	19	11	14	2	38	4	24	4	1	4	4	5	3	4
14E9	11	10	11	-1	14	3	11	-1	4	4	4	5	2	4
1550E1	8	9	10	-1	12	3	9	-1	4	4	3	4	3	4
1550E2	10	10	12	-1	14	4	11	3	4	4	4	5	3	4
1550E3	8	7	12	-1	11	3	8	-1	4	4	4	4	2	3
1550E4	9	6	6	-1	10	3	9	-1	4	4	3	4	2	3
1550E5	8	-1	5	-1	9	3	8	-1	4	3	3	4	2	3
1550E5-R	8	5	5	-1	8	3	7	-1	4	3	3	4	2	-1
1550E6	18	12	15	2	29	4	20	-1	4	4	4	5	3	4
1550E7	13	12	16	2	28	4	16	-1	4	10	4	5	4	4
1550E7D	10	11	14	-1	17	3	12	-1	4	6	4	4	3	3
1550E8	10	8	10	2	14	3	2	-1	4	4	3	4	2	3
1550E9	10	9	11	2	15	3	10	-1	4	4	4	4	2	3
15E1	10	5	6	-1	14	3	10	-1	4	4	3	4	2	3
15E2	9	5	5	-1	13	4	9	-1	4	4	3	4	4	4
15E3	11	11	13	-1	15	3	2	-1	4	4	4	5	2	4
15E4	15	16	21	2	23	4	16	-1	4	4	4	5	3	4
15E5	53	44	62	3	112	4	63	5	5	6	5	8	3	5
15E6	19	15	19	2	31	4	20	-1	4	5	4	1	3	4
15E7	29	26	35	2	39	4	29	4	4	4	4	6	3	4
15E8	17	15	19	2	24	4	19	-1	4	4	4	5	2	4
15E9	10	8	10	-1	21	3	11	-1	-1	4	3	4	2	3
1650E1	10	6	6	-1	15	-1	9	-1	-1	4	3	4	2	-1
1650E1-R	8	6	6	-1	10	-1	8	-1	4	4	3	4	2	-1
1650E2	8	10	11	2	22	3	14	-1	4	5	4	4	2	4
1650E3	10	8	9	2	16	3	11	-1	-1	4	3	4	2	3
1650E4	10	12	15	2	19	3	12	-1	4	4	4	5	2	4
1650E5	33	17	21	2	49	4	34	-1	4	5	4	5	3	4
1650E6	17	17	22	2	31	4	20	-1	4	4	4	5	2	4
1650E7	22	16	21	2	29	4	22	4	4	4	4	5	2	4
1650E8	17	19	25	2	26	4	18	3	4	4	4	5	2	4
1650E9	28	29	41	2	47	4	25	4	4	8	4	7	3	4
1650E10	10	10	12	-1	17	3	12	-1	4	4	3	4	2	3
1650E11	10	10	13	2	13	3	2	-1	4	4	3	4	2	3
1650E12	16	8	9	2	20	3	17	-1	4	4	4	4	2	4
1650E13	13	15	19	2	16	3	13	3	4	4	3	5	2	4
1650E14	12	15	20	2	20	3	12	-1	4	4	4	5	2	4
1650E14D	12	10	13	2	20	3	13	-1	4	4	3	5	2	4
16E1	6	5	9	-1	8	-1	6	-1	-1	3	-1	4	2	-1
16E1-R	6	3	7	-1	6	-1	5	-1	-1	3	-1	4	2	-1
16E2	7	-1	4	-1	12	-1	7	-1	-1	3	3	4	2	3
16E3	7	3	7	-1	10	-1	7	-1	4	3	3	4	2	3
16E4	6	3	7	-1	8	-1	6	-1	-1	4	-1	4	2	3
16E5	5	-1	4	-1	6	-1	5	-1	-1	3	-1	-1	2	-1
16E6	6	2	6	-1	10	-1	6	-1	-1	4	-1	4	2	-1
16E7	8	4	9	-1	14	3	10	-1	4	4	3	4	2	3

	113 -HBA	114 - MBI	115 - MBI	116 - MAR	117 - HA	118 - MPH	119 - HBA	120 - THI	121 - MPH	122 - MPH	123 - MPH	124 - MBI	125 - HAR	126 - MPH
16E8	10	12	16	-1	20	3	11	-1	4	4	3	5	2	3
16E9	10	13	17	2	21	3	12	-1	4	4	3	5	2	4
1750E1	10	25	39	-1	14	3	9	-1	4	4	4	6	2	4
1750E2	10	4	8	-1	17	3	10	-1	4	4	3	4	2	3
1750E3	10	5	5	2	14	3	10	-1	4	4	3	4	2	-1
1750E4	17	20	28	2	37	4	17	3	4	5	4	6	3	4
1750E5	45	47	66	3	68	4	46	4	5	5	5	9	3	4
1750E6	14	25	36	2	57	3	21	3	4	6	4	6	3	4
1750E7	16	11	13	2	25	3	16	-1	4	4	4	5	2	4
1750E7-R	14	7	7	2	16	3	12	-1	4	4	3	4	2	3
1750E8	7	5	10	-1	16	-1	8	-1	-1	4	3	4	2	-1
1750E9	8	3	7	-1	15	-1	9	-1	-1	4	-1	4	2	-1
17E1	9	15	18	-1	15	3	9	-1	4	4	3	5	2	3
17E2	7	17	22	-1	11	3	7	-1	4	4	3	5	2	3
17E3	8	3	7	-1	13	4	8	-1	4	4	4	4	2	3
17E4	13	15	20	2	29	4	15	-1	4	6	4	5	3	4
17E5	8	5	5	-1	15	3	10	-1	-1	3	3	4	2	3
17E6	13	20	27	2	28	3	14	-1	-1	5	3	5	3	4
17E7	15	14	18	2	24	3	16	-1	-1	4	4	5	2	4
17E7D	14	15	20	2	22	3	14	-1	4	4	4	5	2	3
17E8	10	15	20	2	35	-1	13	-1	4	6	4	5	3	3
17E9	20	26	35	2	35	4	18	3	4	6	4	6	3	4
17E10	13	9	11	2	17	3	13	-1	4	4	3	4	2	4
17E11	9	10	12	-1	21	3	9	-1	-1	4	3	4	2	-1
17E12	12	10	12	-1	22	3	13	-1	4	4	3	4	2	3
17E12-R	12	9	11	-1	24	3	13	-1	4	5	3	4	2	3
17E13	7	5	5	-1	10	-1	7	-1	-1	3	-1	4	2	3
18E1	7	10	13	-1	14	-1	8	-1	-1	4	3	4	2	-1
18E2	7	-1	4	-1	10	3	7	-1	4	4	-1	4	2	3
18E3	8	8	9	-1	12	3	8	-1	4	4	3	4	2	-1
18E4	18	13	17	2	30	4	19	-1	4	4	4	5	2	4
18E5	10	18	24	-1	39	3	13	-1	4	5	4	5	2	3
18E6	6	11	18	-1	15	-1	7	-1	-1	5	-1	5	2	-1
18E7	8	5	10	-1	15	-1	8	-1	-1	4	3	4	2	-1
18E8	13	22	30	2	40	3	14	3	4	5	3	6	2	3
18E9	13	17	21	-1	33	3	14	3	4	5	4	-1	2	4
18E10	13	10	13	2	17	3	12	-1	-1	4	3	4	2	3
19E1	8	10	12	-1	19	-1	9	-1	4	4	-1	4	2	-1
19E2	9	10	12	-1	20	3	10	-1	-1	4	3	4	2	3
19E3	9	18	25	2	34	3	15	-1	4	7	3	5	3	4
19E4	8	9	10	-1	26	3	11	-1	4	6	3	4	2	3
19E4-R	2	10	13	2	47	4	13	-1	4	9	3	5	3	3
19E5	8	6	7	-1	13	3	2	-1	-1	4	-1	4	2	-1
19E6	9	10	13	-1	15	3	9	-1	4	4	3	4	2	-1
19E7	25	25	33	2	52	4	26	-1	4	5	4	6	3	4
19E8	8	7	8	-1	13	-1	8	-1	-1	4	-1	4	2	-1
19E9	8	-1	6	-1	10	3	8	-1	4	4	3	4	2	-1
19E9D	6	-1	5	-1	8	-1	6	-1	-1	4	-1	4	2	-1
LMB-QA	5	-1	4	-1	5	-1	6	-1	-1	3	3	-1	2	-1
LMB-QA	5	-1	4	-1	6	-1	5	-1	-1	3	-1	-1	2	-1
LMB-QA	5	-1	-1	-1	6	-1	6	-1	-1	3	-1	-1	2	-1
LMB-QA	5	-1	-1	-1	6	-1	6	-1	-1	3	-1	-1	2	-1

	113 -HBA	114 - MBI	115 - MBI	116 - MAR	117 - HA	118 - MPH	119 - HBA	120 - THI	121 - MPH	122 - MPH	123 - MPH	124 - MBI	125 - HAR	126 - MPH

	127 - MPH	128 - MPH	129 - HAR	130 - HAR	131 - MPH	132 - ALK	133 - HAR	134 - HAR	135 - MPH	136 - MPH	137 - HBI	138 - HBI	139 - HPH	140 - HPH
20E1	4	3	3	4	3	25	21	24	20	19	20	20	19	19
20E2	3	3	3	4	3	23	21	23	19	-1	20	19	18	19
20E3	4	-1	3	4	3	23	21	22	19	19	21	20	19	19
20E4	4	3	3	4	3	46	21	23	20	19	22	21	20	20
20E5	4	-1	3	3	3	29	19	21	20	19	20	20	19	19
20E5-R	4	3	3	3	3	31	20	21	19	19	21	20	19	19
20E6	4	3	3	4	3	35	21	23	20	20	22	21	19	19
20E7	4	3	3	4	3	45	21	22	20	19	21	21	19	19
20E8	4	-1	3	4	3	32	21	23	20	20	21	21	20	20
20E9	4	3	3	3	3	34	20	21	20	19	21	20	18	19
21E1	3	-1	-1	4	3	-1	20	22	19	-1	19	19	-1	18
21E2	-1	-1	-1	-1	3	-1	20	21	-1	-1	19	19	-1	-1
21E3	3	-1	3	3	3	21	-1	21	19	19	20	19	18	19
21E4	4	-1	3	3	3	22	19	20	-1	-1	20	20	-1	-1
21E5	3	3	3	4	3	23	20	22	-1	19	19	19	18	19
21E6	4	3	3	4	3	40	21	23	20	20	21	21	19	20
21E7	4	3	3	4	3	31	19	22	20	19	21	21	19	19
21E8	3	3	3	4	3	21	21	22	19	-1	20	19	-1	19
21E9	3	-1	3	4	3	31	21	23	20	19	21	20	-1	20
21E10	4	3	3	4	3	27	21	23	19	19	20	20	19	19
21E11	4	3	3	4	3	28	21	23	20	20	22	21	19	19
21E11-R	3	3	3	4	3	30	21	23	20	20	21	20	19	20
21E12	4	3	3	4	4	44	22	24	20	19	22	22	19	20
22E1	4	3	3	4	3	-1	-1	22	19	-1	20	19	19	19
22E2	4	3	3	4	4	42	22	24	21	20	22	21	19	20
22E3	4	3	3	4	3	35	21	24	20	20	22	22	19	20
22E4	4	3	3	4	4	59	24	26	21	21	23	23	20	20
22E5	4	3	3	4	3	32	21	24	20	20	21	21	20	20
22E6	3	-1	3	4	-1	-1	20	22	-1	-1	19	19	-1	-1
22E7	3	3	3	4	3	26	-1	23	19	19	20	20	19	19
22E8	3	-1	3	3	-1	-1	20	22	19	-1	18	19	-1	-1
22E9	4	-1	3	3	3	-1	19	20	-1	18	19	19	-1	-1
22E10	4	3	3	4	4	47	22	25	21	20	22	22	19	20
22E11	4	3	3	4	3	27	20	22	20	19	20	20	19	19
22E12	4	-1	3	4	3	26	21	22	19	19	19	20	19	-1
22E13	4	-1	3	3	3	33	20	21	20	19	20	20	19	19
23E1	4	-1	3	3	-1	-1	18	20	18	19	19	19	-1	19
23E1-R	3	3	3	4	3	20	20	23	19	-1	20	19	18	-1
23E2	3	-1	3	4	3	27	21	23	19	19	20	20	19	19
23E3	-1	-1	3	3	3	-1	-1	22	19	-1	18	19	-1	-1
23E4	3	-1	3	3	3	-1	-1	22	-1	19	19	19	-1	-1
23E5	-1	-1	3	3	3	-1	20	22	19	19	19	19	-1	19
23E6	3	-1	-1	4	3	-1	-1	23	19	-1	19	19	-1	-1
23E7	4	-1	3	4	3	30	21	23	20	19	21	20	19	19
23E8	4	3	3	4	4	51	20	22	21	20	22	21	20	20
1450E1	-1	3	3	4	-1	-1	20	22	-1	19	19	19	-1	19
1450E2	-1	-1	3	3	3	-1	18	20	19	-1	19	19	-1	-1
1450E3	4	3	3	4	3	-1	20	22	-1	19	20	19	19	19
1450E4	-1	-1	3	4	3	22	-1	22	19	-1	20	20	19	19
1450E5	4	4	3	4	4	61	23	25	21	20	23	22	20	21
1450E6	4	3	3	3	3	35	19	22	19	19	21	21	19	19
1450E7	4	3	3	4	3	38	20	22	19	19	21	21	19	19
1450E8	4	3	3	4	3	32	21	23	20	19	21	20	19	20
1450E8-R	4	3	3	4	4	48	22	25	21	20	22	21	20	21

	127 - MPH	128 - MPH	129 - HAR	130 - HAR	131 - MPH	132 - ALK	133 - HAR	134 - HAR	135 - MPH	136 - MPH	137 - HBI	138 - HBI	139 - HPH	140 - HPH
1450E9	4	3	3	4	3	40	22	24	21	20	21	21	20	20
14E1	4	-1	3	3	3	25	-1	21	19	19	21	21	19	20
14E2	4	-1	3	3	3	-1	19	20	19	-1	19	19	-1	-1
14E3	4	3	3	4	4	36	21	24	21	20	21	21	19	20
14E4	4	3	3	4	3	19	20	22	19	19	19	19	19	19
14E5	4	3	3	4	3	19	-1	22	19	19	19	19	-1	19
14E6	4	-1	3	3	3	26	19	21	-1	19	20	20	19	19
14E7	4	3	3	4	3	30	21	23	20	19	21	21	19	19
14E8	4	3	3	4	4	52	23	24	21	20	22	22	20	20
14E9	4	3	3	4	3	25	21	23	20	19	20	20	19	19
1550E1	4	3	3	4	3	20	20	23	20	19	21	20	19	19
1550E2	4	3	3	4	3	27	21	24	21	20	23	22	19	20
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1550E4	4	3	3	4	3	23	20	23	20	19	20	20	19	19
1550E5	3	-1	3	4	-1	-1	-1	22	-1	-1	19	19	-1	19
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1550E6	4	3	3	4	4	41	23	23	21	20	22	21	20	20
1550E7	4	3	3	4	4	35	21	24	21	20	21	21	20	20
1550E7D	4	3	3	4	3	26	20	23	20	19	20	20	19	19
1550E8	4	3	3	4	3	24	21	22	19	19	19	19	-1	19
1550E9	4	3	3	4	3	25	20	23	20	19	21	20	19	20
15E1	4	3	3	4	3	26	21	24	20	19	20	20	19	19
15E2	4	3	3	4	3	22	20	24	20	19	20	20	-1	20
15E3	4	3	3	4	3	24	21	23	19	19	20	20	19	19
15E4	4	3	3	4	3	34	21	24	20	20	21	21	20	20
15E5	5	4	4	5	4	110	27	32	24	23	29	27	21	22
15E6	4	3	3	4	3	47	22	25	20	20	22	21	20	20
15E7	4	4	3	4	4	61	21	24	21	20	24	23	19	20
15E8	4	3	3	4	3	37	21	24	20	20	22	21	20	20
15E9	4	-1	3	4	3	25	-1	23	19	19	21	20	19	19
1650E1	4	-1	-1	4	3	23	-1	23	19	19	20	20	19	19
1650E1-R	3	3	3	4	3	19	20	22	19	-1	19	19	19	19
1650E2	4	3	3	3	3	36	20	21	20	19	20	20	18	19
1650E3	4	3	3	4	3	26	21	23	19	19	20	20	-1	19
1650E4	4	3	3	4	3	27	20	23	19	19	20	20	19	20
1650E5	4	4	3	4	4	64	23	26	22	20	23	23	20	21
1650E6	4	3	3	3	3	41	20	23	20	19	22	21	20	20
1650E7	4	3	3	4	3	46	20	23	20	19	22	21	19	20
1650E8	4	3	3	4	3	38	21	24	20	20	21	21	19	19
1650E9	4	4	3	4	4	55	23	26	22	20	23	22	20	21
1650E10	4	3	3	4	3	27	21	23	19	20	20	20	19	19
1650E11	4	-1	3	4	3	23	20	23	19	-1	20	19	-1	19
1650E12	4	3	3	3	3	38	19	21	19	19	20	20	19	19
1650E13	4	3	3	3	3	29	19	22	20	19	21	20	19	20
1650E14	4	3	3	4	3	28	21	24	20	19	21	20	18	19
1650E14D	4	3	3	4	3	33	21	24	20	19	21	21	19	19
16E1	3	-1	3	-1	3	-1	20	21	-1	-1	19	19	-1	-1
16E1-R	3	-1	3	-1	-1	-1	-1	21	19	-1	18	-1	-1	-1
16E2	3	3	3	4	3	-1	-1	22	19	-1	20	19	-1	19
16E3	4	3	3	3	3	-1	-1	20	-1	19	19	19	-1	19
16E4	-1	-1	-1	3	3	-1	20	21	19	-1	19	-1	-1	19
16E5	3	-1	3	3	-1	-1	-1	21	-1	-1	19	18	-1	-1
16E6	-1	-1	3	4	-1	-1	20	22	19	-1	19	19	-1	-1
16E7	3	-1	3	4	3	22	21	22	-1	19	19	19	-1	19

	127 - MPH	128 - MPH	129 - HAR	130 - HAR	131 - MPH	132 - ALK	133 - HAR	134 - HAR	135 - MPH	136 - MPH	137 - HBI	138 - HBI	139 - HPH	140 - HPH
16E8	4	3	3	3	3	33	19	21	20	19	20	20	-1	19
16E9	4	3	3	4	3	31	20	24	20	19	20	20	19	20
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1750E2	-1	3	3	4	3	22	20	23	19	19	20	19	19	19
1750E3	3	3	3	4	3	22	-1	23	20	19	19	19	-1	19
1750E4	4	3	3	4	3	39	21	24	20	20	21	21	20	20
1750E5	5	4	3	4	4	104	26	28	23	22	26	25	21	21
1750E6	4	3	3	4	4	50	22	24	21	20	22	22	20	21
1750E7	4	3	3	4	3	36	21	25	20	19	21	20	19	19
1750E7-R	4	3	3	4	3	29	20	23	19	19	19	20	19	19
1750E8	-1	-1	3	4	-1	20	20	22	19	18	19	19	-1	-1
1750E9	3	-1	3	4	3	24	20	22	19	-1	19	19	19	-1
17E1	4	3	3	4	3	20	21	22	19	19	19	20	-1	19
17E2	4	-1	3	4	3	-1	20	22	19	19	19	20	19	-1
17E3	4	3	3	4	3	-1	-1	23	19	19	20	19	-1	19
17E4	4	3	3	4	3	35	21	23	20	19	20	20	19	20
17E5	3	-1	3	3	3	28	20	22	19	-1	19	19	-1	-1
17E6	4	3	3	4	3	33	21	23	19	-1	21	20	-1	19
17E7	4	3	3	4	3	41	22	23	20	19	21	20	19	19
17E7D	4	3	3	4	3	35	21	23	20	-1	21	20	19	19
17E8	4	3	3	4	3	33	21	22	20	19	20	20	19	19
17E9	4	3	3	4	4	47	21	24	21	20	22	22	19	20
17E10	4	3	3	4	3	32	21	23	20	20	20	20	19	20
17E11	4	3	-1	3	3	22	19	21	19	-1	20	19	18	19
17E12	4	-1	3	3	3	35	19	21	20	19	20	20	19	19
17E12-R	4	-1	3	4	3	32	21	23	20	19	21	20	19	19
17E13	4	-1	-1	3	3	-1	18	20	19	-1	19	19	-1	19
18E1	-1	-1	-1	4	-1	-1	20	22	-1	-1	19	19	-1	19
18E2	3	-1	-1	3	3	-1	20	22	19	-1	19	19	-1	-1
18E3	-1	-1	-1	3	3	-1	-1	21	19	19	19	19	-1	-1
18E4	4	3	3	4	3	45	22	24	20	20	21	21	19	20
18E5	4	3	3	4	3	32	21	23	20	19	20	20	19	20
18E6	-1	-1	-1	3	-1	-1	-1	22	-1	-1	19	19	-1	-1
18E7	-1	-1	3	3	-1	-1	19	20	19	19	19	19	19	-1
18E8	4	3	3	4	3	35	20	24	20	19	21	21	19	19
18E9	4	3	3	4	3	37	21	24	20	20	21	21	20	20
18E10	4	3	3	4	3	35	21	23	20	19	20	20	19	19
19E1	3	-1	-1	4	3	23	-1	22	20	19	19	19	-1	-1
19E2	3	3	3	4	3	25	20	22	19	19	19	20	-1	19
19E3	4	3	3	4	3	36	21	25	21	20	21	21	19	19
19E4	4	3	3	3	3	27	19	21	19	19	20	19	19	20
19E4-R	4	3	3	4	3	32	21	24	20	19	20	20	19	19
19E5	-1	-1	3	3	3	21	19	21	19	-1	19	19	-1	19
19E6	3	3	3	3	3	20	19	21	19	-1	19	19	-1	-1
19E7	4	3	3	5	4	61	23	26	21	21	24	24	20	20
19E8	4	-1	-1	4	3	21	20	22	19	19	19	19	-1	-1
19E9	3	-1	3	4	3	-1	20	22	-1	-1	19	19	18	-1
19E9D	-1	-1	3	3	3	-1	-1	22	-1	-1	19	19	-1	19
LMB-QA	3	-1	-1	-1	-1	-1	-1	20	-1	-1	19	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	19	19	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	21	19	-1	-1	18	-1	19
LMB-QA	-1	-1	3	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1

	127 - MPH	128 - MPH	129 - HAR	130 - HAR	131 - MPH	132 - ALK	133 - HAR	134 - HAR	135 - MPH	136 - MPH	137 - HBI	138 - HBI	139 - HPH	140 - HPH

	141 - HBI	142 - HPH	143 - HA	144 - HBI	145 - HBA	146 - HPH	147 - HBI	148 - HPH	149 - HBI	150 - HPH	151 - HBI	152 - HPH	153 - HPH	154 - HPH
20E1	20	-1	111	19	57	18	19	17	18	18	19	18	55	62
20E2	20	19	67	18	40	18	18	18	18	18	17	18	53	61
20E3	20	19	60	18	39	-1	18	18	18	18	17	18	53	62
20E4	21	19	136	19	57	18	19	18	18	18	19	18	56	62
20E5	19	18	65	18	39	18	18	18	18	-1	17	19	54	61
20E5-R	19	18	73	18	41	18	18	18	18	18	18	18	53	59
20E6	21	19	78	19	46	18	19	4	18	18	18	18	54	62
20E7	21	20	105	19	51	18	3	18	18	18	18	18	54	58
20E8	20	19	79	19	44	18	19	18	19	17	18	18	54	62
20E9	20	19	93	18	45	18	19	18	18	18	18	18	54	62
21E1	19	19	39	18	33	18	18	18	-1	18	17	18	53	59
21E2	19	-1	5	-1	32	-1	18	-1	-1	-1	-1	-1	52	56
21E3	19	-1	46	18	36	-1	18	18	17	-1	17	17	52	60
21E4	19	19	48	18	39	-1	18	17	18	17	18	18	54	61
21E5	20	19	56	18	38	17	18	-1	18	17	18	18	55	62
21E6	21	19	95	19	48	18	4	18	18	17	18	18	54	63
21E7	20	19	66	19	42	17	19	18	18	18	17	18	53	60
21E8	20	19	55	18	38	-1	18	-1	18	18	18	18	55	62
21E9	20	19	64	19	42	18	18	17	18	18	18	18	55	58
21E10	19	19	67	18	40	-1	18	18	18	18	17	18	54	63
21E11	20	19	74	19	42	18	18	18	18	18	-1	18	53	61
21E11-R	20	19	71	18	43	18	18	18	18	-1	18	18	56	61
21E12	21	20	106	19	51	19	19	18	18	18	18	18	56	62
22E1	19	-1	46	18	38	-1	18	-1	18	18	18	18	54	61
22E2	21	20	110	19	51	18	19	18	18	18	18	18	55	61
22E3	21	19	80	19	47	18	19	18	18	17	18	18	54	62
22E4	23	20	160	21	63	19	20	19	19	19	18	19	56	65
22E5	20	19	72	19	45	18	19	18	18	18	18	18	56	62
22E6	19	-1	46	18	38	17	18	-1	17	17	17	-1	53	60
22E7	19	19	55	18	44	18	18	18	18	17	18	18	54	-1
22E8	19	-1	38	18	32	-1	18	-1	18	-1	17	-1	52	-1
22E9	19	19	6	18	33	-1	17	17	-1	-1	-1	18	53	60
22E10	21	20	120	20	55	18	19	18	18	18	18	18	56	63
22E11	20	19	7	18	39	18	18	-1	18	17	18	18	55	60
22E12	19	19	62	18	40	18	18	17	18	17	18	18	53	59
22E13	19	-1	77	18	44	18	19	-1	18	17	17	18	53	62
23E1	18	-1	43	18	35	-1	17	-1	17	-1	18	17	52	55
23E1-R	19	-1	47	18	38	17	18	-1	18	17	18	18	55	62
23E2	20	-1	72	18	41	18	18	18	18	18	18	18	55	61
23E3	19	-1	5	18	36	17	18	-1	17	-1	17	18	55	60
23E4	19	19	43	18	35	17	18	-1	17	-1	18	18	55	59
23E5	19	-1	8	18	35	-1	18	-1	-1	18	17	18	53	60
23E6	19	-1	41	18	34	-1	18	-1	17	-1	17	-1	52	-1
23E7	20	19	73	19	40	18	19	18	18	18	17	18	53	60
23E8	21	20	125	19	54	18	19	18	18	18	18	18	54	63
1450E1	19	-1	41	18	34	-1	18	-1	17	-1	-1	18	55	60
1450E2	19	19	6	18	33	-1	18	-1	17	-1	17	18	54	60
1450E3	19	-1	6	18	36	17	18	-1	17	-1	18	18	56	61
1450E4	19	19	51	18	36	-1	18	17	-1	-1	17	18	54	59
1450E5	21	20	148	20	59	19	19	18	18	18	18	19	57	62
1450E6	20	18	80	19	47	18	18	18	18	-1	18	18	54	59
1450E7	20	19	86	19	48	18	18	18	18	18	18	18	55	57
1450E8	20	19	82	19	47	18	19	18	18	18	18	18	55	61
1450E8-R	22	20	128	20	59	19	19	18	18	18	18	18	57	62

	141 - HBI	142 - HPH	143 - HA	144 - HBI	145 - HBA	146 - HPH	147 - HBI	148 - HPH	149 - HBI	150 - HPH	151 - HBI	152 - HPH	153 - HPH	154 - HPH
1450E9	21	20	106	20	54	18	19	18	18	18	18	18	57	64
14E1	20	19	9	19	43	18	19	17	18	18	18	18	56	61
14E2	19	-1	42	18	37	18	18	-1	17	18	17	18	54	61
14E3	21	20	78	19	52	19	19	19	18	18	18	19	56	62
14E4	19	19	44	18	38	18	19	17	18	18	18	18	55	60
14E5	19	19	47	18	40	18	18	17	17	18	18	18	54	60
14E6	19	19	56	18	42	17	18	-1	18	18	18	18	55	60
14E7	20	19	82	19	46	18	19	18	18	18	18	18	56	61
14E8	22	20	185	21	69	19	20	18	19	18	19	19	56	63
14E9	20	19	8	19	43	18	19	18	18	17	18	18	53	60
1550E1	20	19	54	19	44	18	19	18	18	18	18	18	56	13
1550E2	21	20	67	20	51	19	20	19	20	21	19	21	57	65
1550E3	20	20	55	19	44	19	4	19	18	18	19	19	56	62
1550E4	20	19	52	18	43	18	19	18	18	18	18	18	56	62
1550E5	19	19	7	18	42	17	18	-1	18	18	17	18	53	62
1550E5-R	19	19	6	18	38	-1	19	-1	17	17	17	18	53	61
1550E6	22	20	115	20	57	18	4	18	18	19	19	19	57	62
1550E7	21	19	85	19	52	18	19	18	18	18	18	18	56	62
1550E7D	21	19	65	19	43	18	19	18	18	18	17	18	54	61
1550E8	19	19	60	18	39	18	18	18	18	17	18	18	52	-1
1550E9	20	19	7	19	44	18	19	18	18	18	18	18	55	62
15E1	20	19	58	19	48	18	19	18	18	18	18	18	56	62
15E2	20	19	5	19	39	18	19	18	18	18	18	19	53	61
15E3	20	19	59	19	44	18	19	18	18	18	18	18	54	61
15E4	21	19	68	19	48	18	19	18	18	18	18	18	56	61
15E5	29	22	348	25	113	21	22	21	20	20	20	20	59	65
15E6	22	19	105	19	58	18	19	19	18	18	18	18	55	65
15E7	21	19	140	20	61	19	19	19	19	18	18	18	56	61
15E8	20	19	93	19	52	18	19	18	18	18	18	18	56	61
15E9	20	19	57	18	43	18	19	-1	-1	-1	18	18	56	63
1650E1	20	-1	7	18	41	18	18	18	18	17	17	18	53	57
1650E1-R	19	-1	44	18	37	18	18	17	18	17	18	18	54	60
1650E2	20	19	75	19	48	18	19	18	18	17	17	18	54	60
1650E3	20	-1	57	18	45	-1	19	18	18	17	18	17	55	60
1650E4	20	19	68	19	43	19	18	18	18	-1	18	18	53	60
1650E5	22	20	158	20	65	19	20	18	19	18	19	19	56	63
1650E6	21	19	96	19	56	18	19	18	18	18	18	18	56	64
1650E7	21	19	102	19	53	18	19	18	18	18	18	18	56	64
1650E8	21	19	82	19	48	18	19	18	18	18	18	18	56	58
1650E9	22	20	94	20	59	18	20	19	18	18	18	18	56	62
1650E10	20	-1	59	18	41	-1	18	18	18	18	18	18	13	64
1650E11	19	19	59	18	38	18	18	18	17	17	17	18	53	59
1650E12	20	19	81	19	48	18	19	18	18	17	18	18	54	61
1650E13	20	19	62	19	41	18	18	18	18	18	17	18	54	62
1650E14	20	19	8	19	44	18	19	18	18	18	18	18	53	60
1650E14D	21	19	9	19	49	18	19	18	18	18	18	18	56	61
16E1	19	-1	35	18	31	-1	18	-1	-1	-1	-1	-1	52	-1
16E1-R	19	-1	32	17	29	-1	-1	-1	18	-1	-1	-1	52	-1
16E2	19	-1	44	18	38	17	18	-1	17	-1	-1	18	54	59
16E3	19	-1	38	18	34	-1	4	-1	17	-1	18	-1	55	59
16E4	-1	-1	35	-1	30	-1	18	-1	-1	-1	-1	-1	53	-1
16E5	19	-1	32	-1	30	17	-1	-1	17	-1	-1	17	54	59
16E6	19	-1	38	17	32	-1	-1	17	18	-1	17	17	52	-1
16E7	19	-1	49	18	38	17	18	-1	-1	-1	18	18	54	-1

	141 - HBI	142 - HPH	143 - HA	144 - HBI	145 - HBA	146 - HPH	147 - HBI	148 - HPH	149 - HBI	150 - HPH	151 - HBI	152 - HPH	153 - HPH	154 - HPH
16E8	20	19	57	18	42	18	18	17	18	17	18	17	54	60
16E9	20	19	59	19	43	18	19	18	18	-1	18	18	53	58
1750E1	20	19	52	18	41	18	19	18	18	18	17	18	53	57
1750E2	20	-1	52	18	41	18	18	18	18	17	17	18	53	62
1750E3	19	19	55	18	41	18	18	17	18	17	18	18	55	60
1750E4	21	19	74	20	49	18	19	18	19	17	18	18	54	62
1750E5	26	21	238	23	89	20	21	20	19	19	19	19	57	66
1750E6	22	20	126	20	53	19	19	18	19	18	19	19	56	62
1750E7	21	19	73	19	50	18	19	18	18	18	18	18	54	61
1750E7-R	20	19	61	19	44	18	19	18	4	-1	18	18	54	63
1750E8	19	-1	41	17	32	17	18	-1	18	-1	-1	-1	52	59
1750E9	19	-1	45	18	35	-1	18	-1	18	-1	18	18	53	59
17E1	19	-1	47	18	37	17	18	-1	18	17	18	18	53	62
17E2	19	19	39	18	34	17	18	-1	18	17	-1	18	-1	60
17E3	20	19	42	18	34	17	18	18	18	-1	17	18	53	60
17E4	20	-1	78	19	45	18	19	-1	18	17	18	18	53	60
17E5	19	-1	57	18	36	17	18	-1	17	-1	-1	17	53	59
17E6	20	19	64	19	45	18	19	17	18	-1	18	17	55	61
17E7	20	19	86	19	46	18	19	17	18	18	18	18	55	58
17E7D	20	19	74	19	41	18	18	18	18	18	18	18	54	59
17E8	20	19	8	18	41	18	18	18	18	18	17	18	53	60
17E9	22	20	87	20	59	19	20	19	18	18	18	18	55	63
17E10	20	19	8	19	41	18	4	18	4	17	18	18	54	60
17E11	19	-1	5	18	36	17	18	-1	18	17	18	-1	53	58
17E12	20	19	68	19	48	18	19	18	18	18	18	18	53	60
17E12-R	20	19	69	19	50	18	19	18	18	18	18	18	55	62
17E13	19	-1	38	18	32	-1	18	-1	-1	-1	-1	-1	54	59
18E1	19	-1	39	18	32	-1	18	-1	-1	-1	17	-1	-1	-1
18E2	-1	-1	6	18	34	-1	18	-1	17	-1	18	17	54	-1
18E3	19	-1	42	18	35	-1	18	-1	17	-1	-1	18	54	-1
18E4	21	19	96	19	53	18	4	18	18	18	17	18	54	58
18E5	20	19	58	19	41	18	19	18	18	17	18	18	53	60
18E6	19	-1	38	-1	31	-1	18	-1	18	-1	17	-1	52	-1
18E7	19	-1	6	18	34	-1	18	17	18	17	-1	17	52	59
18E8	20	19	62	19	46	18	19	18	18	18	18	18	55	62
18E9	21	20	11	19	47	18	19	18	19	17	18	18	55	62
18E10	20	19	9	18	43	18	18	18	17	18	18	18	55	62
19E1	19	-1	45	18	35	-1	18	17	-1	-1	-1	-1	54	61
19E2	19	19	47	18	36	-1	18	-1	18	-1	18	18	53	59
19E3	22	19	73	19	47	18	19	18	18	18	18	18	56	58
19E4	19	19	50	18	38	18	18	17	18	17	18	-1	54	61
19E4-R	20	19	58	18	42	18	19	18	18	17	17	18	53	60
19E5	19	-1	44	18	35	17	18	-1	17	-1	18	17	54	60
19E6	20	-1	44	18	37	17	18	17	-1	-1	18	17	54	-1
19E7	23	20	165	21	68	19	2	19	19	18	18	19	55	62
19E8	19	19	45	-1	35	17	18	-1	-1	-1	17	17	52	-1
19E9	19	-1	5	18	35	17	-1	18	17	-1	17	18	52	-1
19E9D	19	-1	6	-1	31	-1	18	-1	-1	17	-1	-1	53	-1
LMB-QA	-1	-1	5	17	29	-1	-1	-1	-1	-1	-1	17	52	-1
LMB-QA	18	-1	34	-1	29	-1	17	-1	-1	-1	-1	-1	52	-1
LMB-QA	18	-1	34	-1	30	-1	-1	-1	-1	-1	-1	-1	53	-1
LMB-QA	19	-1	33	-1	29	-1	-1	-1	-1	-1	17	-1	-1	59

	141 - HBI	142 - HPH	143 - HA	144 - HBI	145 - HBA	146 - HPH	147 - HBI	148 - HPH	149 - HBI	150 - HPH	151 - HBI	152 - HPH	153 - HPH	154 - HPH

	155 - HPH	156 - HBI	157 - HAR	158 - HBA	159 - HBA	160 - HBI	161 - HA	162 - HPH
20E1	55	56	58	216	55	55	261	53
20E2	54	52	54	122	52	54	155	52
20E3	55	52	53	114	52	53	146	52
20E4	55	53	57	173	55	54	208	53
20E5	53	53	53	120	54	55	147	52
20E5-R	52	54	53	120	53	54	147	50
20E6	53	53	54	128	53	53	158	52
20E7	54	53	54	136	52	54	176	52
20E8	54	53	56	132	54	53	159	52
20E9	54	53	54	133	52	54	169	53
21E1	53	52	53	102	51	53	128	-1
21E2	53	51	53	98	51	51	126	52
21E3	53	51	53	107	51	52	139	52
21E4	54	52	56	125	53	53	156	51
21E5	53	52	53	117	52	53	144	52
21E6	54	55	56	149	55	54	180	50
21E7	54	52	54	130	52	53	165	52
21E8	54	53	56	123	52	53	153	51
21E9	54	53	53	131	52	53	164	52
21E10	53	52	54	129	54	54	159	52
21E11	-1	53	54	119	52	53	149	52
21E11-R	55	53	56	135	54	53	161	52
21E12	54	53	55	140	53	54	176	53
22E1	53	52	56	117	52	53	148	52
22E2	54	53	58	147	54	54	182	53
22E3	55	53	57	138	55	55	168	53
22E4	55	55	57	177	57	56	218	53
22E5	56	53	56	126	55	55	158	53
22E6	53	52	53	116	51	52	25	52
22E7	53	53	56	129	53	53	161	53
22E8	52	-1	53	100	52	52	122	-1
22E9	53	54	54	110	53	54	135	50
22E10	54	53	54	139	52	53	175	53
22E11	53	53	55	113	51	53	142	52
22E12	53	53	55	124	53	53	150	50
22E13	52	52	53	127	53	55	158	52
23E1	52	53	52	106	52	54	131	50
23E1-R	53	52	56	112	53	53	139	52
23E2	54	52	56	127	53	52	152	53
23E3	-1	51	55	115	53	52	139	51
23E4	53	52	55	110	53	52	133	51
23E5	-1	52	53	106	51	52	133	51
23E6	-1	52	54	105	52	-1	127	52
23E7	53	53	54	115	52	53	147	52
23E8	55	53	55	143	53	54	183	53
1450E1	53	52	54	110	53	52	134	51
1450E2	53	52	52	100	50	52	125	51
1450E3	53	53	54	106	51	52	133	52
1450E4	-1	51	53	109	50	52	135	52
1450E5	55	53	56	152	53	55	188	53
1450E6	53	54	54	133	54	55	167	51
1450E7	53	54	53	137	53	55	170	51
1450E8	54	52	56	129	53	54	160	53
1450E8-R	55	53	57	164	55	56	198	53

	155 - HPH	156 - HBI	157 - HAR	158 - HBA	159 - HBA	160 - HBI	161 - HA	162 - HPH
1450E9	55	53	55	147	52	54	183	53
14E1	54	53	61	138	58	54	165	53
14E2	53	52	56	119	53	52	145	53
14E3	55	54	57	160	55	54	200	53
14E4	54	53	56	125	54	53	151	52
14E5	53	52	55	119	52	53	147	52
14E6	54	52	56	124	52	54	156	57
14E7	54	52	54	137	52	53	172	53
14E8	56	54	58	215	56	56	257	53
14E9	54	53	56	126	55	53	153	53
1550E1	53	53	55	135	52	53	170	52
1550E2	57	56	68	190	68	57	230	55
1550E3	57	58	58	154	58	57	35	54
1550E4	55	54	59	140	56	54	172	53
1550E5	55	52	55	128	53	54	159	52
1550E5-R	53	52	55	115	53	53	148	52
1550E6	55	53	59	168	57	56	203	54
1550E7	55	53	56	147	53	54	183	52
1550E7D	54	53	54	128	52	53	163	53
1550E8	53	52	56	126	53	53	150	51
1550E9	54	53	57	129	53	53	162	52
15E1	54	54	56	149	54	54	41	53
15E2	55	52	56	118	54	54	143	-1
15E3	54	54	55	133	53	54	167	53
15E4	54	53	57	132	53	55	166	53
15E5	58	57	61	276	61	59	339	57
15E6	56	54	54	151	53	56	194	54
15E7	54	55	55	159	54	55	197	51
15E8	55	53	57	143	53	53	178	52
15E9	53	52	56	127	54	53	23	51
1650E1	52	52	53	117	53	52	146	51
1650E1-R	53	54	56	115	54	52	140	50
1650E2	54	53	54	131	53	53	170	52
1650E3	54	53	56	127	52	52	161	51
1650E4	53	54	55	131	53	54	158	50
1650E5	55	54	58	163	56	55	198	52
1650E6	54	53	56	144	52	54	181	52
1650E7	55	53	54	139	53	54	174	53
1650E8	54	53	53	130	52	53	162	52
1650E9	56	54	56	145	54	55	183	53
1650E10	54	52	54	117	52	53	146	52
1650E11	51	-1	53	115	53	52	143	52
1650E12	54	52	55	135	53	52	165	52
1650E13	53	53	54	116	53	53	145	52
1650E14	53	52	54	123	52	54	23	52
1650E14D	54	53	58	136	54	55	172	53
16E1	-1	51	52	93	50	51	117	-1
16E1-R	-1	53	54	98	52	51	118	49
16E2	53	51	55	114	52	52	143	52
16E3	-1	51	55	100	53	52	122	51
16E4	-1	-1	52	93	50	52	117	51
16E5	53	51	54	90	50	51	112	51
16E6	54	52	55	103	53	52	123	50
16E7	53	51	54	109	50	52	136	52

	155 - HPH	156 - HBI	157 - HAR	158 - HBA	159 - HBA	160 - HBI	161 - HA	162 - HPH
16E8	54	52	54	115	51	53	144	52
16E9	54	53	55	132	53	53	27	52
1750E1	53	52	53	118	52	53	148	51
1750E2	53	53	54	117	53	54	150	51
1750E3	53	-1	55	121	51	53	149	53
1750E4	54	53	55	134	53	54	162	53
1750E5	57	55	57	221	55	57	282	55
1750E6	55	53	57	151	54	55	183	50
1750E7	52	53	54	174	55	54	207	53
1750E7-R	54	53	56	160	54	53	188	51
1750E8	53	51	53	103	52	51	125	51
1750E9	53	52	55	113	54	52	137	50
17E1	53	-1	56	115	54	53	22	50
17E2	53	52	54	107	52	52	130	50
17E3	-1	53	53	106	53	52	131	52
17E4	54	53	55	137	53	53	163	52
17E5	53	52	52	104	50	52	130	51
17E6	-1	52	56	128	51	53	27	51
17E7	54	53	54	131	51	53	162	52
17E7D	53	52	55	123	53	53	148	52
17E8	53	52	53	113	51	52	141	51
17E9	54	53	55	151	53	54	203	53
17E10	54	52	56	122	54	53	149	51
17E11	52	54	53	110	53	54	136	50
17E12	54	53	55	140	53	53	169	52
17E12-R	53	53	56	140	52	53	175	52
17E13	53	52	53	98	50	52	122	-1
18E1	-1	51	54	101	52	51	122	-1
18E2	53	51	54	100	51	52	125	51
18E3	53	53	55	115	51	53	144	51
18E4	54	53	54	137	52	53	177	52
18E5	-1	54	56	119	54	53	144	50
18E6	52	51	53	101	52	51	122	50
18E7	53	52	55	106	53	52	128	51
18E8	55	52	53	122	51	53	153	53
18E9	54	53	57	137	55	55	167	51
18E10	53	52	53	123	52	53	153	51
19E1	-1	-1	53	104	50	51	129	-1
19E2	53	52	54	110	53	53	133	50
19E3	54	53	54	135	52	54	168	52
19E4	53	52	54	114	51	52	143	-1
19E4-R	54	53	53	122	51	53	158	52
19E5	53	52	53	106	50	52	131	-1
19E6	53	52	55	110	51	52	138	-1
19E7	56	55	56	189	54	56	238	54
19E8	-1	51	52	104	52	52	129	52
19E9	-1	51	52	104	51	52	129	51
19E9D	-1	-1	54	95	50	-1	119	-1
LMB-QA	51	53	52	95	52	53	117	-1
LMB-QA	51	-1	51	91	52	53	112	50
LMB-QA	53	-1	53	97	50	51	120	-1
LMB-QA	53	-1	54	97	52	-1	117	51

	155 - HPH	156 - HBI	157 - HAR	158 - HBA	159 - HBA	160 - HBI	161 - HA	162 - HPH

GRID 2

SOIL GAS HYDROCARBON “SGH” SURVEY FIELD NOTES

PAGWACHUAN LAKE CLAIM BLOCK

PROJECT:

DATE:

SAMPLE No.	LINE/ STATION	DEPTH TAKEN (cm)	Sample Type	Sample Colour	Sample Texture	Moisture Content	Terrain	Field (Y/N) Duplicate	Sa... Name
14E9		20cm	B	light brown	silt sand	70%	Flat		Jan 1
14E8		20cm	B	medium brown	silt	70%	slop		SA
14E7		25cm	B	medium brown	silt sand	70%	Slop		SA.
14E6		25cm	organic	black/brown	organic	40%	flat		
14E5		20cm	organic	black	organic	70%	flat		
14E4		25cm	Organic	black	organic	70%	flat		
14E3		25cm	Organic	black	organic	60%	flat		
14E2		30cm	Organic	black	organic	60%	flat		
14E1		25cm	Organic	black	organic	40%	flat		
14SOE1		25cm	organic	black	Organic	60%	flat		
14SOE2		30cm	Organic	black	Organic	80%	flat		
14SOE3		20cm	Organic	black	Organic	50%	flat		
E4		20cm	Organic/B	dark brown/black	silt clay	30%	flat		
E5		20cm	B	lighter brown	silt	20%	flat		
E6		20cm	B	Medium brown	silt	10%	Slop		
E7		25cm	B	dark brown	Sandy	20%	Slop		
E8		25cm	B	dark brown	sandy	90%	slop		
E9		25cm	B	medium brown	silt	20%	slop		
15E9		20cm	B	light brown	silt clay	20%	flat		
E8		25cm	B	light brown	silt clay	20%	flat		
E7		25cm	B	Medium brown	silt	20%	flat		
E6		15cm	B	dark brown	silt sand	20%	Slope		
E5		15cm	B	medium brown	silt	20%	slop		
E4		20cm	B	light brown	silt	20%	flat bo		
E3		30cm	organic	black	organic	70%	flat bog		
E2		20cm	Organic	black	organic	50%	flat bog		
E1		20cm	Organic	black	organic	60%	Flat bo		
15SOE1		25cm	Organic	black	organic				

PROJECT:

DATE: Aug 28 & 1/Sept

SAMPLE No.	LINE/ STATION	DEPTH TAKEN (cm)	Sample Type	Sample Colour	Sample Texture	Moisture Content	Terrain	Field (Y/N) Duplicate	Sampler Name
1550 E2		25cm	Organic	black	organic	60%	Flat bog		JA.
E3		25cm	Organic	black	Organic	50%	flat bog		
E4		30cm	Organic	black	organic	80%	flat bog		
E5		70cm	Organic	black	Organic	40%	flat bog		
E6		15cm	B	Medium brown	silt sand	20%	flat		
E7		25cm	B	dark brown	silt	10%	flat		
1550 D E7		30cm	B	dark brown	silt	20%	flat	(Y)	
E8		40cm	B	medium brown	silt	30%	flat		JA
E9		15cm	B	light brown	silt clay	20%	flat		JA

PROJECT:

DATE: June 29/2013

SAMPLE No.	LINE/ STATION	DEPTH TAKEN (cm)	Sample Type	Sample Colour	Sample Texture	Moisture Content	Terrain	Field (Y/N) Duplicate	Sampler Name
16 E9	800S	25cm	B	light brown	silty	20%	flat		Eldon
E8	775	25cm	B	light brown	silty	20%	flat		
7	750	30cm	B	light brown	silty	30%	flat		
6	725	25cm	B	lBr	clay/silt	30%	flat		
5	700	20cm	Org	BLK	Org	50%	flat		
4	675	10cm	B/org	lBr/BLK	silt clay	40%	flat		
3	650	30cm	Org	BLK	Org	60%	flat bog		
2	625	30cm	Org	BLK/Br	Org	60%	flat bog		
1	600	25cm	Org	BLK	Org	60%	flat bog		
15 E1	587.5	30cm	B	lBr	silt clay	20%	flat bog		
2	612.5	20cm	B	LBr	clay	20%	flat		
3	637.5	15cm	B	LBr	clay	60%	flat		
4	662.5	20cm	B/C	dBr	silty	20%	flat open turned		
5	687.5	15cm	B	dBr	silt	10%	flat disturbed maybe		
6	712.5	15cm	B	mBr	silt	10%	flat		
7	737.5	20cm	B	dBr	silt	10%	flat		
8	962.5	20cm	B	DBR	silt sand	10%	flat		
9	787.55	20cm	B	md Br	silt	10%	flat		
10	812.55	25cm	B	dBr/blk	silt	10%	flat		
11	837.5	25cm	B	md br	silt	20%	flat		
12	862.5	20cm	B	dark br	silt sand	10%	flat		
13	887.5	25cm	B	dark br	silt sand	10%	flat		
14	912.5	20cm	B	md Br/light Br	silt	20%	flat		
14	912.5	25cm	B	light Brown	silt	20%	flat	✓	Eldon

* rock smear

Turned up Turned up?

PROJECT: GRID 2 DATE: June 29/2013

SAMPLE No.	LINE/ STATION	DEPTH TAKEN (cm)	Sample Type	Sample Colour	Sample Texture	Moisture Content	Terrain	Field (Y/N) Duplicate	Sampler Name
L17E13	900S	34 cm	UPPER "B"	BLACK	LOAM/CLAY	30%	FLAT		
L17E12	875 S	30 cm	"B"	BROWN	SAND/LOAM	20%	"		
L17E11	850 S	26 cm	B	GREY/BROWN	SAND/SILT	20%	"		
L17E10	825 S	32 cm	B	"	"	10%	ROLLING		
L17E 9	800 S	30 cm	"B"	BROWN	SAND	< 10%	"		
L17E 8	775 S	34 cm	"	GREY	SILT	< 10%	FLAT		
L17E 7	750 S	32 cm	B	BROWN/GREY	SAND/SILT	"	"		
L17E7D	"	"	B	"	"	"	"	YES	
L17E 6	725 S	26 cm	"	"	"	"	"		
L17E 5	700 S	32 cm	UPPER "B"	GREY/BLACK	LOAM/SILT	"	ROLLING		
L17E 4	675 S	30 cm	"B"	BROWN	SAND	"	"		
L17E 3	650 S	34 cm	UPPER B	BLACK	HUMUS	25%	Sb SWAMP		
L17E 2	625 S	36 cm	"	"	"	"	"		
L17E 1	600 S	"	B	"	"	40%	"		
L17S0E1	587.5 S	32 cm	"	BLACK	"	25%	Sb SWAMP		KK
L17S0E2	612.5 S	34 cm	"	BLACK	HUMUS	25%	Sb SWAMP		KK
L17S0E3	637.5	33 cm	"	BLACK	HUMUS	18%	Sb SWAMP		KK
L17S0E4	662.5	24 cm	B	L BROWN	SANDY SILT	8%	FLAT		KK
L17S0E5	687.5	25 cm	B	L BROWN	SANDY SILT	7%	FLAT		KK
L17S0E6	712.5	26 cm	B	GREY	SILT	8%	FLAT		KK
L17S0E7	737.5	32 cm	B	DARK BROWN	SANDY	80%	EDGE OF CREEK		KK
L17S0E8	762.5	30 cm	B	GREY BLACK	CLAY/LOAM	10%	FLAT		KK
L17S0E9	787.5	33 cm	B	GREY	SILT/CLAY	10%	FLAT		KK
L18E10	800 S	22 cm	B	BROWN/GREY	SANY/LOAM	8%	ROLLING		KK
L18E 9	775 S	25 cm	B	LIGHT BROWN	SANDY/SILT	LESS 10%	FLAT		KK

PROJECT: GRID2 DATE: June 28/13

SAMPLE No.	LINE/ STATION	DEPTH TAKEN (cm)	Sample Type	Sample Colour	Sample Texture	Moisture Content	Terrain	Field (Y/N) Duplicate	Sampler Name
18C7		25cm	B	~~BLB~~ LB	Clay	10%	Slope		TC/CJ/TN
18C 8		70cm	B	MB	Silt	10%	Slope		
~~18C 9~~									
~~18C 10~~									

PROJECT: GRID2 A DATE: June 28/13

SAMPLE No.	LINE/ STATION	DEPTH TAKEN (cm)	Sample Type	Sample Colour	Sample Texture	Moisture Content	Terrain	Field (Y/N) Duplicate	Sampler Name
21E12		20cm	B	MB	Silt	10%	Flat		CT/TN/TC
21E11		20 cm	B	MB	Silt	10%	Flat		
21E10		30 cm	B	MB	Silt	20%	Flat		
21E9		30 cm	B	LB	Silt	20%	Flat		
21E8		30 cm	B	LB	Silt	30%	Flat		
21E7		20 cm	B	MB	Silt	10%	Flat		
21E6		20 cm	B	MB	Silt	10%	Slope		
21E5		25cm	B	LB	Silt	11%	Slope		
21E4		25cm	Organic	Black	Black mick	30%	Flat		
21E3		40cm	B	LB	Silty clay	30%	Flat		
21E2		25cm	Organic	Black	Black	35%	Flat		
21E1		25cm	Organic	Black	Organic	100%	Bog		
19E9		30cm	B	LB	Silt	10%	Flat	Yes	
19E8		25cm	B	LB	silt	10%	"		
19E7		30cm	B	mb	Silt	10%	Beside Road		
19E6		20cm	B	lb	clayey silt	20%	Flat		
19E5		25cm	B	lb	Silt	20%	Flat		
19E4		25cm	B	lb	silt	20%	flat		
19E3		25cm	B	lb	Silty clay	10%	Flat		
19E2		25cm	B	lb	silt	10%	"		
19E1		25cm	B	lb	Silt	10%	Flat		
18E1		30cm	B	lb	Silt/clay	10%	Flat		
18E2		30cm	Organic	Black	Organic	40%	Flat		
18E3		30cm	Organic	Black	organic	50%	Flat		
18E4		20 cm	B	MB	Sand/silt	10%	Slope		
18E5		20 cm	B	MB	Silt/sand	10%	Slope		
18E6		30cm	B	B/LB	Clay/silt	50%	Flat/creek		
18E7									

PROJECT: GRID 2

DATE: June 27/13

SAMPLE No.	LINE/ STATION	DEPTH TAKEN (cm)	Sample Type	Sample Colour	Sample Texture	Moisture Content	Terrain	Field (Y/N) Duplicate	Sampler Name
23E8		25cm	B	MB	Silt	16%	Slope		TN/CJ
23E7		20	B	LB	Clay	30%	Slope		TN/CJ
23E6		23cm	B	LB	Silt	20%	Slope		
23E5		31cm	Organic	Black	Organic	43%	Flat		
23E4		30.5cm	Organic	Black	Organic	106%	Bog		
23E3		27cm	Organic	Black	Organic	99.99%	Bog		
23E2		40cm	B	DB	Sandy Silt	15%	Flat		
23E1		40cm	Organic	Black	Organic	100%	Bog		
22E1		40cm	Organic	Black	Organic	73%	Flat/Bog		
22E2		25cm	B	MB	Silty clay	30%	Slope		
22E3		15cm	B	LB	Silty clay	20%	Flat		
22E4		25cm	B	LB	Silty clay	40%	Flat		
⇒ 22E5		20cm	B	MB	Silt	10%	Flat		
22E6		55cm	Organic	Black	Organic	10%	Slope		
22E7		20cm	Organic	Black	Organic	40%	Flat		
22E8		50cm	Organic/B	Black	Organic/ Clay	40%	Slope		
22E9		20cm	B	LB	Silty clay	30%	Slope		
22E10		24cm	B	MB	Silt	10%	Flat		
22E11		20cm	B	LB	Silt/clay	15%	Flat		
22E12		23cm	B	MB	Clay	30%	disturbed		
22E13		20cm	B	LB	Silt	10%	disturbed		
20E9		25cm	B	LB	silty clay	30%	Flat		
20E8		20cm	B	mb	silty clay	30%	Flat		
20E7		20cm	B	LB	Clay	10%	Beside Rd		
20E6		20cm	B	mb	Sandy Silt	10%	flat		
20E5		10cm	B	mb	Silty/Clay	30%	rock/Flat		
20E4		30cm	B	LB/Grey	Silty clay	10%	Slope		
20E3		20cm	B	DB	Silty Sand	20%	Slope		
20E2		20cm	B	mb	Silty clay organic	20%	Flat		
20E1		30cm	Organic	black		60%	Bog		