



CROYDON GOLD MINE  
ENVIRONMENTAL AUTHORITY AMENDMENT  
SUPPORTING DOCUMENT

April 2016

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## 1 Introduction

The Croydon Gold Mine (the CGM) is located to the immediate west of the Croydon township, 560 kilometres (km) west of Cairns, Queensland (Figure 1). The CGM was formerly a low-grade gold mine and has since been closed and decommissioned. Activities at the CGM include maintenance, monitoring, investigations and reclamation works (as required).

Mining Lease (ML) 5248 was granted on 4 August 1988 to Goldfields Kalgoorlie Limited. ML 5248 was later transferred to Aurion Gold Limited, before the company was acquired by Placer Dome Australia in November 2003, which was then acquired by Barrick Australia Pacific Limited (Barrick) in 2005. Barrick holds Environmental Authority (EA) No. EPML00950913 for the CGM.

### 1.1 Background

#### *General*

Extensive gold mining at the CGM commenced in the late 1880s for approximately 30 years, before recommencing in 1987. Operational mining ceased in 1990 and the CGM was decommissioned by late 1993 (Barrick, 2008). Reclamation performance was audited in 1996/1997 and significant additional reclamation works were subsequently undertaken (Barrick, 2008).

The mining-related landforms on ML 5248 comprise of waste rock dumps, open pits and infrastructure areas (i.e. abandonment bunds, hardstand areas, water management structures and roads/tracks) surrounding the open pits and waste rock dumps. Specifically they include (Figure 2):

- Golden Butterfly Pit;
- Golden Butterfly North Pit;
- Golden Butterfly waste rock dump;
- Content Pit;
- Content waste rock dump;
- Lady Isabella Pit;
- abandonment bunds across the access ramps of the four open pits;
- hardstand areas adjacent to the Content and Golden Butterfly waste rock dumps;
- water diversion bunds and sediment dams adjacent to the Content and Golden Butterfly waste rock dumps; and
- roads and tracks.

#### *Rehabilitation Works*

As noted in the previous section, operational mining ceased in 1990 and the CGM was decommissioned by late 1993 (Barrick, 2008). Reclamation performance was audited in 1996/1997 and significant additional reclamation works were subsequently undertaken (Barrick, 2008).

During 2012 the opportunity was taken to treat the water within the Content Pit and the Lady Isabella Pit. The existing relatively benign nature of water quality within these pit lakes enabled the option for in-pit treatment of the pit lake waters with limestone to raise the pH to within stock watering guidelines. Therefore, in the event of any possible future discharge from these pits the effect on the receiving environment would be minimal. The pit lake water treatment has proven to be successful and these water bodies are now used for stock watering and road maintenance purposes. The created beneficial uses for these pit lakes also ensures the likelihood of discharge is minimised through anthropogenic abstraction maintaining low pit lake water levels.

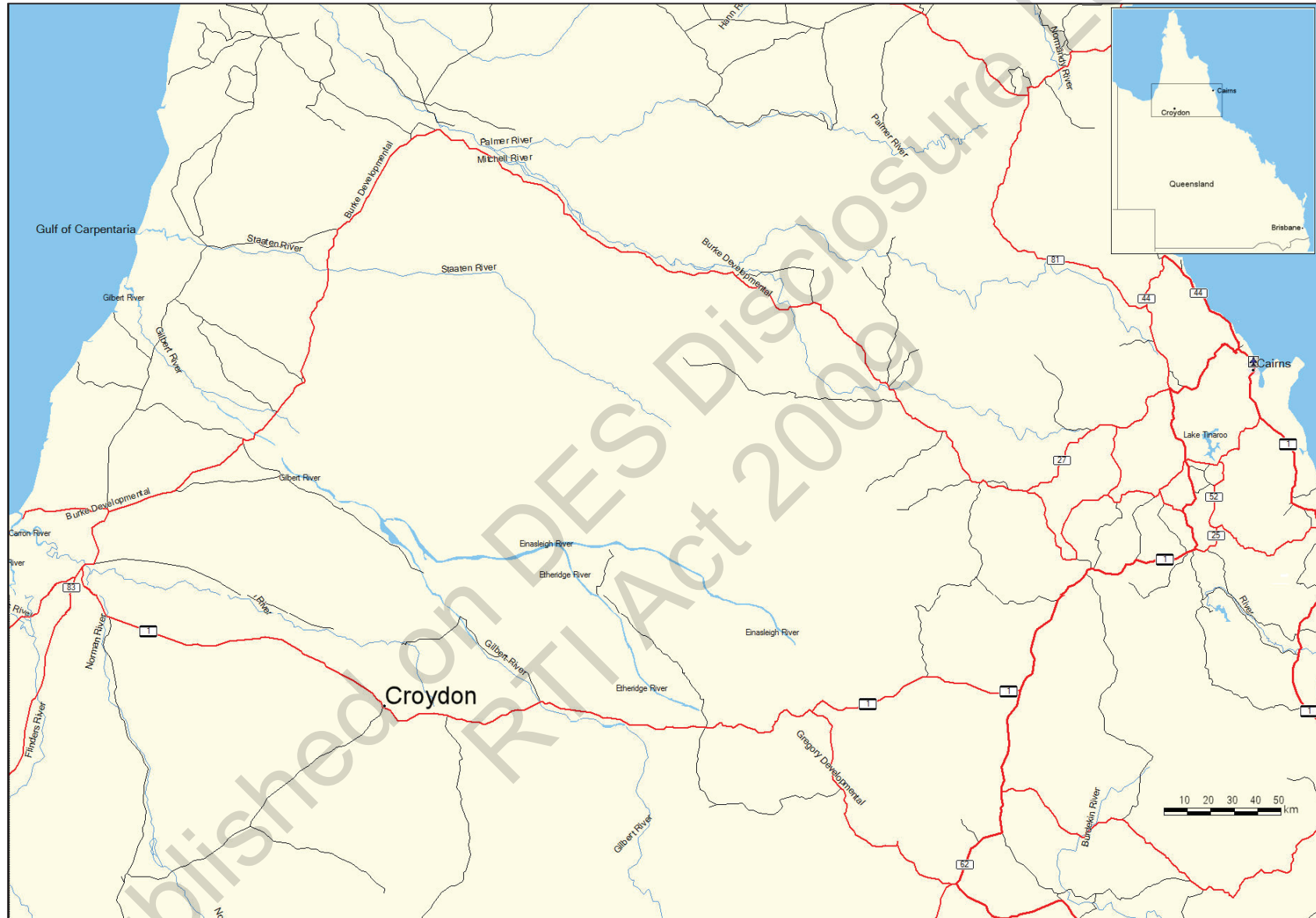


Figure 1: Croydon Site Regional Location Map

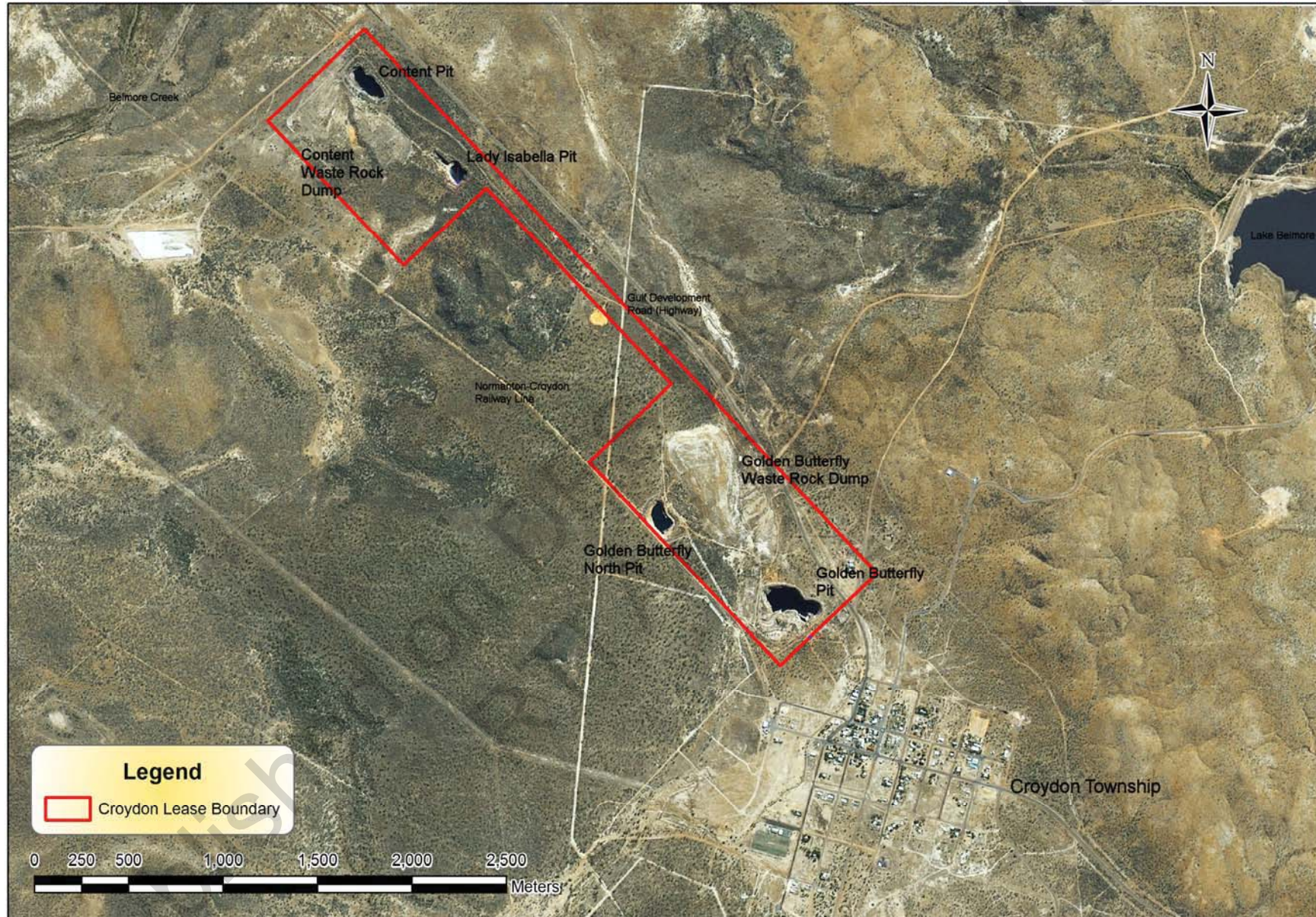


Figure 2: Croydon Site Location Features

The site is characterised by the relatively small size of the waste rock dumps and pit voids coupled with the extensive prior rehabilitation and the mature nature of the site. Current works have been in place for greater than twenty (20) years. This has resulted in the need for minimal rehabilitation maintenance works, other than maintaining boundary fencing, which is a testament to the site resilience.

### **Environmental Monitoring Results Assessment**

Extensive environmental monitoring is conducted of the site as per the Croydon Receiving Environment Monitoring Program (REMP).

The latest rehabilitation/revegetation assessment was conducted in October 2015 (Williams, P., 2015) which concluded:

- The continuing drought conditions (since 2013) enabled assessment of the durability of the rehabilitation, with plant cover comparatively higher in the rehabilitation sites than the adjacent analogue sites.
- Rehabilitation has progressed to a point that it is providing an ecological equivalent to the surrounding landscape.

The relevant regulated vegetation management map (DNRM) shows that the entire area contained within the mining lease, including all surrounding areas, is classified as "Category B: Remnant Vegetation". CGM has no species of protected fauna within the mining lease or within close proximity of the mining lease.

CGM contains no springs or groundwater supported surface drainage features. Groundwater occurs in deep fractured rock aquifers, but is not utilised as a water resource on or adjacent to ML 5248. The mining lease area is surrounded by a metalliferous mining province that has been exploited for over a century. Any aquifers linked to the main mineralised zones are expected to have naturally raised levels of metals and sulphate.

This assumption is supported by water quality analysis from the monitoring bores located in this area. It is likely that water quality will vary significantly between individual fractured rock aquifers, with limited hydrogeological linkage between aquifers. These aquifers would therefore not be considered potential potable water supplies, irrespective of potential yields.

"Environmental values are particular values or uses of the environment that are important for a healthy ecosystem or for public benefit, welfare, safety or health and which require protection from the effects of pollution, waste discharges and deposits. They were often called 'beneficial uses' in the water quality literature" (ANZECC 2000).

The following environmental values are recognised in ANZECC guidelines in terms of receiving water bodies:

- aquatic ecosystems,
- primary industries (irrigation and general water uses, stock drinking water, aquaculture and human consumption of aquatic foods),
- recreation and aesthetics,
- drinking water,
- industrial water (no water quality guidelines are provided for this environmental value), and
- cultural and spiritual values (no water quality guidelines are provided for this environmental value).

Belmore Creek forms the western boundary to the site, and is the receiving water body for potential off-site discharges from the Content and Lady Isabella pits and Content Waste Rock Dump. Belmore Creek is an ephemeral water body, but nonetheless forms an aquatic ecosystem that would be expected to be maintained at a minimum of the existing condition. Therefore, environmental values of stock drinking water, and irrigation and general water uses are applicable.

Groundwater is not used for livestock or human consumption in the Croydon area due to poor groundwater resources (i.e. flow rate) and the ready availability of water in the Lake Belmore drinking water dam. CGM has no species of protected fauna within the mining lease or within close proximity of the mining lease. Similarly, CGM has no area listed of concern regarding flora biodiversity.

## 1.2 Purpose of this Report

The existing Croydon Environmental Authority does not adequately reflect the performance over the previous two decades of the established rehabilitation works as supported by the environmental monitoring data collected. This successful site rehabilitation leads to redundant clauses over time. The pit lake limestone dosing in 2012 mitigating the effect of possible discharges being a recent previous relevant example. This resulted in an amendment to the EA to permit discharges of the treated pit lake water in the event of extreme rainfall events such as a cyclone being requested in 2012 and granted in 2013.

This report presents information concerning a number of clauses in the current EA which are recommended to be amended resulting from interpretation of current environmental monitoring data.

## 2 Recommended EA Clause Amendments

### 2.1 Schedule F – Table 4

Schedule F Table 4 from the EA specifies receiving water trigger and contaminant limits.

Trigger levels for the various specified analytes are calculated as the *higher* of the 80<sup>th</sup> percentile of the relevant reference site analyte value or the default value from the ANZECC (2000) trigger levels for aquatic ecosystems indicative of slightly disturbed tropical Australian upland river ecosystems. The analytical result for the dissolved fraction of the relevant analyte is used in the calculation.

Contaminant limits for the various specified analytes are calculated as the *lower* of the 95<sup>th</sup> percentile of the relevant reference site analyte value or the default value from the ANZECC (2000) Stock Water Quality Guidelines. The analytical result for the total fraction of the relevant analyte is used in the calculation.

The calculation of both the trigger levels and contaminant limits requires a statistical calculation that is required to conform to ANZECC (2000) methodology. This methodology involves the use of a statistically relevant number of samples within the data set.

The calculation of the contaminant limits involves two changes introduced in the 2013 amendment to the EA:

1. Use of the analytical data for the “total” metal fraction;
2. Contaminant limit is the *lower* of the 95<sup>th</sup> percentile of the reference site or the default value

Monitoring data prior to 2013 did not require the analysis of the “total” metal fraction as per the EA. Further, the “total” metal fraction was not included as an additional component over and above EA requirements, as it is generally recognised as having limited applicability in the interpretation of potential ecotoxicological effects.

Nevertheless, data is now being collected for the total metal fraction for the various surface water sampling sites. However, the ANZECC (2000) requirement for statistically valid number of data points, and the ephemeral nature of the water bodies at Croydon, means a number of years will need to elapse before sufficient data is available. Consequently, currently the contaminant limits default to the ANZECC (2000) stock watering guidelines.

However, the data acquired since the 2013/2014 wet season indicates a likely future inconsistency between the trigger levels and the contaminant limits due to the inclusion of the “or lower” in the calculation of the contaminant limit. Table 1 presents the calculation of trigger values from the existing data set for the Slaughteryard Creek surface water sites (reference site SW3b). Table 2 presents the calculation of contaminant limits from the existing data set for the Slaughteryard Creek surface water sites (reference site SW3b).

In reference to Table 2 it can be seen that the 2013 EA amendment to the contaminant limit calculation will result in trigger values being greater than contaminant limits for electricity conductivity, arsenic, boron, cadmium, copper, mercury, nickel and selenium. Additionally, in the case of chromium, copper and zinc, the calculated contaminant limit is currently only in the order of parts-per-billion greater than the corresponding trigger level. Therefore, it is likely that these analytes will also be in the situation of having contaminant limits less than the corresponding trigger levels.

Considering that the trigger values are based upon extensive ecotoxicological data (ANZECC, 2000) designed to protect 95% of aquatic species, contaminant limits below these values are not relevant and inconsistent with effectively regulating potential environmental consequences of site impacts.

Note that the calculation of the contaminant limits requires a statistically valid data set. Since the “total” metal fraction has only been analysed since the 2013 EA amendment, presently, the “total” metal data set has insufficient samples (n=6; i.e., two “wet” season samples over each of the previous three seasons) and therefore the calculation defaults to the stock water quality values. ANZECC guidelines (Section 7.4.4) indicate that the minimum number of samples required is “monthly basis for at least two years” and “minimum of 10 observations”. Taking into account the ephemeral nature of the Croydon surface water system, the 2016/2017 wet season will likely be the first opportunity that the identified inconsistency between the trigger levels and the contaminant limits will manifest.

Table 3 and Table 4 summarise existing data for filterable and total metals respectively in terms of the occurrence of observed analytical data being reported below the relevant analytical detection limit. The analytes boron, chromium, mercury and selenium consistently are reported to be below the analytical detection limit, and or, significantly and consistently below the trigger level concentration.

#### Proposed EA Change

Firstly, Table 4 Schedule F to be amended to remove “whichever is lowest” in the calculation of the contaminant limit. That is, the contaminant limits are based solely upon the ANZECC (2000) stock watering guidelines.

This is consistent with the previous version of the EA prior to 2013, enabling the utility of trigger values, which in conjunction with contaminant limits, prompt the potential need for management intervention for mitigation of site influenced environmental impact and the identified environmental beneficial uses to which surface waters are utilised at the site.

Secondly, removal of the following analytes from the monitoring programme which have been consistently observed to have concentrations below the relevant analytical detection limit, and or, significantly and consistently below the associated trigger level: boron, chromium, mercury and selenium.

## 2.2 Schedule F – Table 10 and Table 11

Schedule F Table 10 from the EA specifies ground water trigger levels with Schedule F Table 11 specifying the ground water contaminant limits. In accordance with EA Condition F4-1 groundwater monitoring is conducted at the locations and frequencies defined in Schedule F - Table 9 of the EA for the parameters identified in Schedule F - Tables 10 and 11 of the EA. Trigger values are calculated as per the instructions in the footnotes to Schedule F – Table 10 of the EA for groundwater monitoring locations specified in Schedule F Table 9 of the EA. The comparison of groundwater monitoring results against these trigger values and contaminant limits leads to a number of exceedances.

The major difficulty in assessing the relevance of the observed trigger value exceedances is that no reference sites have been stipulated against which to judge the results. The default of using the ANZECC(2000) trigger levels for aquatic ecosystems indicative of slightly disturbed tropical Australian upland river ecosystems does not appear appropriate considering that *groundwater* is being assessed, not *surface water*, and further, the bores are located within a metalliferous area that has hosted mining for over one hundred years. Notwithstanding these difficulties, time series graphs and hydrochemical pattern diagrams such as Piper-Hill Plots and Durov Diagrams in conjunction with information about lithology, rock structural features, groundwater levels and climate factors such as rainfall enable interpretation of the groundwater analysis data in terms of potential environmental impact from mining associated landforms (Barrick 2015).

In all cases, it is demonstrated that groundwater quality is not significantly influenced by landforms associated with the mining lease, with the immediate localised geology being indicated as the significant factor influencing observed groundwater quality at these locations. This is further supported by reference to the hydraulic gradient in the vicinity of the Golden Butterfly Pit and Golden Butterfly North Pit being towards the pit voids and levels of potential contaminants (e.g., fluoride) being lower in the pit lakes than that observed in relevant groundwater bores.

Since the various bores appear to be within locations having different hydrochemical facies, it would appear that a number of sets of “reference values” based upon the existing data from the relevant group of bores, each applicable to a particular hydrogeological regime (i.e. identified hydrochemical facie) would be necessary. However, an alternative proposition is to assess the available hydrological, geochemical, geological and climatological data holistically to determine the likelihood and or extent of possible impact of landforms associated with the mining lease on off-site groundwater quality. This is in contrast to the existing restricted approach, which due to the absence of appropriate baseline data, is focussed solely on the attainment of necessarily arbitrary water quality criteria (which may or may not be appropriate to the situation at hand).

The annual assessment of the groundwater quality data (Barrick, 2015) concluded that the various trigger level and contaminant limit exceedances are most readily explained as related to features associated with the immediate localised geology, as opposed to indicating adverse input from mining related landforms such as the pit void lakes and waste rock dumps. Nevertheless, EA clause F7-2 requires an investigation in accordance with ANZECC (2000) methodology if groundwaters at the bores identified in EA Schedule F Table 9 exceed any of the trigger levels stated in EA Schedule F Table 10.

The investigation in accordance with ANZECC (2000) methodology concludes:

“it can be readily seen that the existing trigger levels based upon ANZECC(2000) trigger levels for aquatic ecosystems indicative of slightly disturbed tropical Australian upland river ecosystems, are not likely relevant to providing the appropriate level of protection for the identified environmental risk and beneficial use.

Trigger levels for the protection of irrigation and stock drinking water environmental values are reasonably assumed to be significantly higher than the necessarily low concentrations for potential toxicants and stressors in order to protect water suitable for sustaining slightly disturbed tropical Australian upland river ecosystems. Therefore, the observed concentrations of the various chemical constituents that create trigger level exceedance in

groundwater using the current definition in the EA do not indicate an environmental risk to the assumed relevant environmental values of irrigation and stock drinking water.”

Therefore, the selection of appropriate trigger values relevant to pertinent environmental values, i.e. the potential use of groundwater for stock drinking water, rather than the arbitrary adoption of default values based on surface waters, is required. This necessarily raises the obvious initial step of selecting the appropriate analyte set. The relevance and utility of outcomes of such an assessment are now significantly strengthened due to the increased breadth (i.e. number of analytes) and length of the groundwater data set available.

The latest version of the annual groundwater monitoring report (Barrick, 2015) presents a number of time series graphs summarising the observed trends in groundwater chemistry for the various analytes included in the sampling/analysis programme. This report concludes that the immediate localised geology is the significant factor influencing observed groundwater quality rather than inputs from mining associated landforms. Therefore, it would be expected that observed analytical results would have “flat” trends with time, rather than increasing concentrations indicative of the arrival of a pollutant plume for example.

Figure 18 to Figure 90 present time series graphs of concentration versus time for the various analytes listed in the EA required to be monitored for the stipulated groundwater bore sites. These time series graphs show the expected “flat” trends with time. Therefore, a statistical measure of a change to an existing trend would provide a “trigger limit”, which if occurs, indicates therefore that the long term trend is altering, which in turn may indicate an associated need for a management response to remediate the situation.

Table 7 presents the calculated long term mean and 95% confidence limits, together with other descriptive statistical results, for the various analytes listed in the EA required to be monitored for the stipulated groundwater bore sites. However, it is initially instructive to review Table 5 which lists the calculated number of analytical results that were observed to be below the analytical detection limit for each groundwater site and analyte. In the case of selenium and mercury all analytical results for all samples from all groundwater sites were below the analytical detection limit (0.001 µg/L and 0.0001 µg/L respectively). Similarly, for boron and chromium all results were below analytical detection limits except for a single occasion.

Therefore, the time series data set indicates that the regional geology within the mine lease area does not contribute boron, chromium, mercury or selenium to groundwater at the limit of analytical detectability (parts-per-billion range). The detection limits for these analytes are below the default trigger values based upon *surface water* ecotoxicological data, and the data set has sufficient values as per ANZECC methodology to calculate statistical outcomes. Consequently, this provides a conservative basis to draw the conclusion that it would be reasonable that the analytes boron, chromium, mercury and selenium are to be deleted from further monitoring.

Table 5 also indicates that the remaining metal analytes have a significant number of “non-detects” i.e., the observed analytical data was below the relevant instrument detection limit. Such non-detects lead to what is commonly termed “censored data”. There are a number of general strategies for handling such non-detects (ITRC, 2014):

- Substitution Methods
- Non-parametric Statistical Tests
- Impute an Estimated Value (e.g. Robust Regression, Maximum Likelihood Estimation)

The USEPA’s Unified Guidance suggests that the substitution method can be acceptable when only a small portion of the data set (10-15 percent) consists of non-detects. However, for descriptive and graphical purposes, simple substitution may be used to present preliminary summary statistics such as the sample mean and variance (for instance, when quantitative statistical evaluations are not planned), or when creating graphs like time series plots.

The non-detects within the groundwater data set within this report have been substituted with a value equal to the relevant instrument detection limit (as opposed to an equally arbitrary alternative such as zero or one-half of the instrument detection limit). This high biases the estimated mean and other similar summary statistics with a view to forming a conservative “worst case” scenario.

The practical importance of the observation that the majority of the analytical results for the metal analytes are at or below the relevant instrumental detection limit is that the existing groundwater monitoring programme (ie analytes versus site) could be more effectively targeted.

Table 9 presents calculated concentrations for specific percentiles for each metal analyte (other than boron, chromium, mercury and selenium for which the entire data set is predominantly below the instrument detection limit as previously discussed) versus groundwater sample site. The green highlight within Table 9 indicates the approximate percentile of expected analytical results which fall within the current default trigger value concentration. This is an alternative view showing the high proportion of below detection limit results within the data set for particular analytes. This indicates that in general aluminium, arsenic, cadmium and nickel are observed at low concentrations and could be omitted from the groundwater monitoring programme in favour of “indicator” analytes such as sulfate (in terms of monitoring for potential impact of acid rock drainage for example).

To further highlight the difficulty of non-detects within the data set in terms of calculating recommended trigger values from the observed analytical data, various standard statistical tests of deviation from normality are presented in Table 8. This clearly shows that for other than the non-metal analytes, the data does not closely conform to a “normal” distribution (largely due to non-detects) and therefore use of Gaussian statistics is not strictly appropriate.

To take a step back from the “rigorous” statistical analysis of the observed data attempting to produce an objective recommendation for appropriate trigger values, it is salutary to focus on what the actual utility of “trigger values” encompasses. A trigger value is broadly defined as a concentration that, if exceeded, alerts water managers to a potential change and thus triggers a management response (ANZECC, 2000). In terms of groundwater monitoring at the Croydon mine lease area, the identified environmental values are potentially irrigation and stock drinking water. Therefore, trigger values should be based upon suitable analyte concentrations lower than the relevant irrigation and stock drinking water guidelines, in order to elicit a management response to implement remediation measures at the earliest possible stage to maximise likelihood of success, while simultaneously being high enough to avoid unwarranted expenditure of resources.

Selection of such trigger values are necessarily “risk based” and in terms of surface waters, toxicological data is available for aquatic ecosystem protection (e.g., ANZECC guidelines) or potable water (e.g., NHMRC guidelines). In terms of stock drinking water, there are no similar defined “trigger values” with the ANZECC guidelines only providing a “standard” below which suitable water should conform. This does not inform as to what analyte concentrations an existing water quality can be subjected before remediation measures should be conducted.

During the selection of trigger values, not only is it important to take into account what a trigger value is designed to produce, but how particular chemical analytes can be used in a monitoring programme to produce information about the state of a water source. In general not all possible analytes need to be measured simultaneously, since a sub-set of analytes based upon existing or likely possible issues (e.g., acid rock drainage due to sulfide oxidation, dissolution of known mineral phases/deposits, plumes from known contamination point sources etc) can be more appropriately used.

#### Control Chart Approach

Discussion with the DEHP in 2015 regarding the selection of trigger values and contaminant limits indicated that a “control chart” approach to assigning trigger levels would be appropriate. Such a strategy is based upon the previous discussion that current groundwater monitoring data is only providing information about the immediate vicinity of the individual bores. Therefore, continuation of “flat trend lines” for the time series data indicates no impacts from plumes or similar changes due to mining related landforms.

The DEHP guideline document “Recording, interpretation and analysis of monitoring results for ERA 60 waste disposal” (EM2317 version 1) was provided as a guiding reference, and the discussion in this document is based upon the contained recommendations. Appendix A contains box and whisker plots, descriptive statistics and tests for statistical normality based upon EM2317 guidelines.

As per EM2317 the mean and standard deviation is to be calculated for each analyte at each groundwater bore location (see Table 7 for descriptive statistics of the current data set). An observed analytical result for an analyte at a groundwater location that is greater than the relevant mean plus three (3) times the standard deviation would constitute a trigger value exceedance.

Consideration of the time series data from the groundwater bores (Figure 18 to Figure 87) demonstrates a number of analytes for which all of reported data is below the detection limit (BDL) of the analytical method used to determine the concentration of the analyte. Such analytes should be deleted from the analysis programme as no further information is being gained by collection of this data. The analytes to be deleted entirely from the groundwater monitoring programme include: Boron, Chromium, Mercury, Nickel and Selenium.

Similarly, in the case of cadmium and cobalt, all observed analytical data is BDL for bores located in “sandstone” and or “alluvial aquifer zone” sites as determined by Piper Plots and Durov Diagrams (Barrick, 2015). Therefore, analysis of cadmium and cobalt is restricted to only the following bores: BH-2, BH-3, BH5, BH-7, BH10, BH-11, BH-12.

Schedule F Table 11 of the EA provides the groundwater contaminant limits which are based upon ANZECC (2000) stock water quality guidelines. As previously noted, groundwater is not used for livestock or human consumption in the Croydon area due to poor groundwater resources (i.e. flow rate) and the ready availability of water in the Lake Belmore drinking water dam. Adoption of the analyte concentration mean plus three (3) times the standard deviation constituting the trigger value results in the situation of trigger values for fluoride being greater than stock water quality guideline of 2mg/L and hence the contaminant limit. Therefore, amendment of the fluoride contaminant limit will be necessary.

The prior discussion demonstrated that groundwater quality is not significantly influenced by landforms associated with the mining lease, with the immediate localised geology being indicated as the significant factor influencing observed groundwater quality at these locations. This is further supported by reference to the hydraulic gradient in the vicinity of the Golden Butterfly Pit and Golden Butterfly North Pit being towards the pit voids and levels of potential contaminants (of particular note fluoride) being lower in the pit lakes than that observed in relevant groundwater bores.

Therefore, the observed fluoride concentrations in the groundwater bores are “background” water quality. Continuation of fluoride concentrations within the proposed “trigger levels” (i.e., control chart limits) means no change to the background water quality. Therefore, no contaminant limit is required to be imposed in the case of fluoride as background concentrations exceed stock water standards and as also previously noted, groundwater is not used for anthropogenic uses.

Similar to the rationale presented for the contaminant limit for fluoride, sulfate (and consequently electrical conductivity) should not have a contaminant limit in the case of bores BH-5, BH-7 and BH-10.

Bore BH-2 (see Figure 59) historically has recorded a pH below 5 (the contaminant lower limit) since monitoring began in 1995. The annual groundwater interpretation report (Barrick, 2015) demonstrates that the groundwater level at bore BH-2 is higher than the adjacent Golden Butterfly Pit lake. Therefore, the Golden Butterfly Pit lake is not the source of the observed low pH at bore BH-2. Again, similar to the fluoride and sulfate, no contaminant limit should be set for pH at BH-2.

#### Proposed EA Change

In recognition of the extensive groundwater monitoring dataset, which shows extant groundwater quality reflects immediate localised geology and not impact from mine site landforms, and that the site has been in post-closure care and maintenance for greater than twenty (20) years, that groundwater monitoring is amended within the EA as follows:

- Schedule F Table 10 and Table 11 are amended to remove the following analytes: Boron, Chromium, Mercury, Nickel and Selenium.
- Schedule F Table 10 and Table 11 are amended to include the analysis of cadmium and cobalt at only the following locations: BH-2, BH-3, BH5, BH-7, BH10, BH-11, BH-12

- The trigger values for the analytes in Schedule F Table 10 are equivalent to the calculated mean plus three (3) times the standard deviation for each analyte at each groundwater bore location.
- Schedule F Table 11 to be amended to remove fluoride for all groundwater bore locations
- Schedule F Table 11 to be amended to remove sulfate and electrical conductivity in the case of bores BH-5, BH-7 and BH-10.
- Schedule F Table 11 to be amended to remove pH in the case of bore BH-2.

### 2.3 Clause F11-2 (e)

This clause states “Include [as a component of the REMP] monitoring and assessment of dissolved oxygen saturation, temperature and all water quality parameters listed in Schedule F- Table 2”.

There are no mining landform related processes that can affect dissolved oxygen or water temperature. Belmore Creek, Slaughteryard Creek and the other water bodies associated with the mine lease area are ephemeral, and in particular for sample locations on the mining lease, generally have a maximum depth below 0.5m. Therefore, incident rainfall runoff, cloud cover, seasonal weather conditions etc are the dominant factors affecting dissolved oxygen and temperature of water bodies on the mining lease.

Dissolved oxygen and temperature data does not assist in interpretation of the results obtained from the other analytes stipulated in the monitoring programme. Therefore, the time, effort and expense of obtaining dissolved oxygen data is not warranted.

#### Proposed EA Change

The clause F11-2 (e) is amended to read “Include monitoring and assessment of all water quality parameters listed in Schedule F- Table 2”.

### 2.4 Partial surrender of Lease Area

Schedule C Table 1, Mining Activities and Rehabilitation Objectives, of the EA currently lists the four (4) pit lakes located on the mining lease as having “non-beneficial land use” as the post-mine land use objective.

Monitoring data from the Golden Butterfly North Pit lake shows that the contained water meets drinking water standards (see Figure 96) for the analytes listed in Schedule F Table 4. The Croydon Shire Council in the past has utilised the Golden Butterfly North Pit as a back-up water supply for municipal parks and gardens, and has similar plans for the future.

Subsequent to the limestone dosing of the Lady Isabella Pit lake in 2010/2011, the pit lake quality now meets stock watering guidelines, except for fluoride (see Figure 97). The water from the Lady Isabella Pit is utilised by the Croydon Shire Council for dust suppression on road works.

The Lady Isabella Pit is located upslope from any associated mining related landforms (i.e., the Content Waste Rock Dump) and hence can be considered as a ‘single entity’ (see Figure 17). That is, there are no associated catchments involved other than direct interception of rainfall.

A geotechnical assessment (Allan Watson Associates, 2009) of the CGM has been conducted, which used a risk-based approach to identify areas of the site where geotechnical risk is relevant and assessed the level of risk for these areas. The assessment concluded that the Golden Butterfly North pit wall (excluding minor failures which may occur within the granitic spoil) is stable and that failure of the pit face based on the assumed parameters has a factor of safety greater than 1.5. The report noted that there is no evidence of past or present instability in the walls of the Lady Isabella Pit.

Other rehabilitation requirements in regards the Lady Isabella Pit and Golden Butterfly North Pit which have been completed include:

- Installation of perimeter safety bund walls, and
- Installation of an approximately 3m high mesh fence parallel to the railway line adjacent to the southern wall of the Golden Butterfly North Pit.

Released

- Monthly monitoring of the Lady Isabella Pit lake indicates risk of reversion to a low pH regime is low (see Figure 98).

The rehabilitation requirements for both the Golden Butterfly North Pit and Lady Isabella Pit have been exceeded compared to the “non-beneficial land use” stated in the EA, with both locations now considered assets by local stakeholders.

Considering the pressure from local stakeholders to access water from these pits for the identified beneficial uses, in conjunction with the requirements under the Mineral Resources Act, which enables the holder of a mining tenure to seek partial surrender, the area containing the Golden Butterfly North Pit and the Lady Isabella Pit are to be surrendered (see Figure 17).

#### Proposed EA Change

Upon excising the area containing the Golden Butterfly North Pit and the Lady Isabella Pit from the mining lease area, the following clauses of the EA will require deletion of the Golden Butterfly North Pit and Lady Isabella Pit as monitoring and or regulated locations:

- Schedule C Table 1 Mining Activities and Rehabilitation Objectives
- Schedule F Table 1 Contaminant Release Points
- Schedule F Table 7 Water Storage Monitoring

### **3 REFERENCES**

Allan Watson Associates (2009) *Croydon Gold Mine (ML 5248) Geotechnical Assessment of Mining Landforms*.

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ITRC (2014) Groundwater Statistics and Monitoring Compliance, Interstate Technology and Regulatory Council, <http://www.itrcweb.org>, accessed July 2014.

Miller, S., (1995) Geochemical Indicators of Sulfide Oxidation and Acid Generation in the Field, 2<sup>nd</sup> Acid Mine Drainage Workshop, ACMER.

Williams, P (2015) Croydon Mine Rehabilitation Assessment, Barrick (Australia Pacific) Ltd.

## Appendix A

The various statistical measures and graphical analysis reported in Appendix A were performed using the statistics package “Statistical Package for the Social Sciences” (SPSS). SPSS has been available since 1970 and is a widely acknowledged industry standard.

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Table 1: Surface Water Trigger Values – Slaughteryard Creek Sites (SW3b reference site)

|                         | pH      | EC<br>(µS/cm) | Fluoride<br>(mg/L) | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | Aluminium<br>(mg/L) | Arsenic<br>(mg/L) | Boron<br>(mg/L) | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) | Zinc<br>(mg/L) |
|-------------------------|---------|---------------|--------------------|--------------------|--------------------|---------------------|-------------------|-----------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|----------------|
| 80th Percentile of SW3b | 6.87    | 86.0          | 0.24               | 13.40              | 190.8              | 0.49                | 0.002             | 0.050           | 0.0001            | 0.002              | 0.003            | 0.010            | 0.0001            | 0.002            | 0.010              | 0.013          |
| 20th Percentile of SW3b | 6.24    |               |                    |                    |                    |                     |                   |                 |                   |                    |                  |                  |                   |                  |                    |                |
| ANZECC Default          | 7.50    | 250           | na                 | na                 | 15                 | 0.055               | 0.013             | 0.37            | 0.0002            | 0.001              | 0.0014           | 0.0014           | 0.0006            | 0.011            | 0.011              | 0.008          |
|                         | 6.00    |               |                    |                    |                    |                     |                   |                 |                   |                    |                  |                  |                   |                  |                    |                |
| Calc. Trigger Value     | 7.50    | 250           | 0.24               | 13.4               | 190.8              | 0.492               | 0.013             | 0.37            | 0.0002            | 0.002              | 0.003            | 0.0104           | 0.0006            | 0.011            | 0.011              | 0.013          |
|                         | 6.00    |               |                    |                    |                    |                     |                   |                 |                   |                    |                  |                  |                   |                  |                    |                |
|                         | default | default       | 80th ref           | 80th ref           | 80th ref           | 80th ref            | default           | default         | default           | 80th ref           | 80th ref         | 80th ref         | default           | default          | default            | 80th ref       |

Table 2: Surface Water Contaminant Limits – Slaughteryard Creek Sites (SW3b reference site)

|                                   | pH       | EC<br>(µS/cm) | Fluoride<br>(mg/L) | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | Aluminium<br>(mg/L) | Arsenic<br>(mg/L) | Boron<br>(mg/L) | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) | Zinc<br>(mg/L) |
|-----------------------------------|----------|---------------|--------------------|--------------------|--------------------|---------------------|-------------------|-----------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|----------------|
| 95th Percentile of SW3b           | 7.26     | 125.1         | 0.30               | 17.85              | 365.7              | 0.61                | 0.003             | 0.050           | 0.0001            | 0.003              | 0.004            | 0.023            | 0.0001            | 0.002            | 0.010              | 0.021          |
| 5th Percentile of SW3b            | 6.15     |               |                    |                    |                    |                     |                   |                 |                   |                    |                  |                  |                   |                  |                    |                |
| ANZECC Default                    | 9.00     | 5970          | 2                  | 1000               | na                 | 5                   | 0.5               | 5               | 0.01              | 1                  | 1                | 1                | 0.002             | 1                | 0.02               | 20             |
|                                   | 5.00     |               |                    |                    |                    |                     |                   |                 |                   |                    |                  |                  |                   |                  |                    |                |
| Calc. Contaminant Limit           | 7.26     | 125.10        | 0.30               | 17.85              | na                 | 0.6575              | 0.002             | 0.05            | 0.0001            | 0.003              | 0.004            | 0.004            | 0.0001            | 0.002            | 0.01               | 0.035          |
|                                   | 6.15     |               |                    |                    |                    |                     |                   |                 |                   |                    |                  |                  |                   |                  |                    |                |
| Trigger Level > Contaminant Limit | Yes      | Yes           | -                  | -                  | -                  | -                   | Yes               | Yes             | Yes               | -                  | -                | Yes              | Yes               | Yes              | Yes                | -              |
|                                   | Yes      |               |                    |                    |                    |                     |                   |                 |                   |                    |                  |                  |                   |                  |                    |                |
|                                   | 95th ref | 95th ref      | 95th ref           | 95th ref           | 95th ref           | 95th ref            | 95th ref          | 95th ref        | 95th ref          | 95th ref           | 95th ref         | 95th ref         | 95th ref          | 95th ref         | 95th ref           | 95th ref       |

Note: total metal data only available since 2013 (n=6)

Table 3: Surface Sample Site versus Analyte Results Equal to Detection Limit (filterable metals)

| Site | Statistic | pH   | EC    | Fluoride | Sulphate | Turbidity | Filterable Metals |         |       |         |          |        |        |         |        |          |        |
|------|-----------|------|-------|----------|----------|-----------|-------------------|---------|-------|---------|----------|--------|--------|---------|--------|----------|--------|
|      |           |      |       |          |          |           | Aluminium         | Arsenic | Boron | Cadmium | Chromium | Cobalt | Copper | Mercury | Nickel | Selenium | Zinc   |
| SW1  | n (total) | 81   | 78    | 41       | 77       | 40        | 51                | 81      | 40    | 81      | 43       | 40     | 81     | 81      | 40     | 54       | 40     |
|      | n (< BDL) | 0    | 0     | 2        | 0        | 5         | 1                 | 7       | 32    | 51      | 32       | 37     | 26     | 66      | 6      | 50       | 2      |
|      | n (% BDL) | 0%   | 0%    | 5%       | 0%       | 13%       | 2%                | 9%      | 80%   | 63%     | 74%      | 93%    | 32%    | 81%     | 15%    | 93%      | 5%     |
|      | range     | 2.81 | 71    | <0.1     | 12       | 0         | <0.01             | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | <0.005 |
| SW2  |           | 7.7  | 400   | 0.4      | 73       | 122       | 1.92              | 0.016   | 0.028 | 0.0002  | 0.003    | 0.002  | 0.063  | 0.016   | 0.003  | 0.004    | 0.043  |
|      | n (total) | 81   | 76    | 41       | 77       | 35        | 51                | 81      | 40    | 81      | 40       | 50     | 81     | 40      | 76     | 39       | 81     |
|      | n (< BDL) | 0    | 0     | 2        | 0        | 0         | 0                 | 2       | 33    | 23      | 35       | 20     | 1      | 38      | 4      | 39       | 4      |
|      | n (% BDL) | 0%   | 0%    | 5%       | 0%       | 0%        | 0%                | 2%      | 83%   | 28%     | 88%      | 40%    | 1%     | 95%     | 5%     | 100%     | 5%     |
| SW3a | range     | 2.25 | 44    | <0.1     | 6        | 1.1       | 0.01              | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | <0.005 |
|      |           | 9.1  | 13100 | 0.6      | 9600     | 12100     | 18                | 27.8    | 0.015 | 0.55    | 0.002    | 0.1    | 71     | 0.0003  | 7.2    | <0.01    | 50.5   |
|      | n (total) | 67   | 63    | 35       | 66       | 30        | 45                | 67      | 35    | 67      | 35       | 39     | 67     | 35      | 67     | 34       | 67     |
|      | n (< BDL) | 0    | 0     | 7        | 1        | 0         | 1                 | 1       | 27    | 33      | 23       | 26     | 0      | 35      | 19     | 34       | 4      |
| SW3b | n (% BDL) | 0%   | 0%    | 20%      | 2%       | 0%        | 2%                | 1%      | 77%   | 49%     | 66%      | 67%    | 0%     | 100%    | 28%    | 100%     | 6%     |
|      | range     | 5.91 | 38    | <0.1     | 0        | 9         | <0.01             | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | 0.001  | <0.0001 | <0.001 | <0.01    | <0.005 |
|      |           | 8.7  | 450   | 0.5      | 140      | 461       | 3.5               | 0.069   | 0.1   | 0.0008  | 0.003    | 0.025  | 0.048  | <0.0001 | 0.025  | <0.01    | 0.17   |
|      | n (total) | 43   | 43    | 40       | 43       | 35        | 43                | 43      | 40    | 43      | 40       | 43     | 43     | 40      | 43     | 38       | 43     |
| SW6  | n (< BDL) | 0    | 0     | 3        | 0        | 0         | 2                 | 11      | 33    | 34      | 28       | 24     | 2      | 40      | 26     | 38       | 10     |
|      | n (% BDL) | 0%   | 0%    | 8%       | 0%       | 0%        | 5%                | 26%     | 83%   | 79%     | 70%      | 56%    | 5%     | 100%    | 60%    | 100%     | 23%    |
|      | range     | 5.3  | 10    | <0.1     | 2        | 1.8       | <0.01             | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | <0.005 |
|      |           | 7.42 | 140   | 0.3      | 23       | 788       | 0.98              | 0.018   | 0.015 | 0.0003  | 0.022    | 0.025  | 0.03   | <0.0001 | 0.025  | <0.01    | 0.028  |
| BCUS | n (total) | 95   | 95    | 46       | 95       | 44        | 73                | 95      | 44    | 95      | 44       | 66     | 95     | 44      | 95     | 43       | 95     |
|      | n (< BDL) | 0    | 0     | 7        | 16       | 7         | 1                 | 19      | 35    | 38      | 25       | 43     | 0      | 44      | 30     | 43       | 22     |
|      | n (% BDL) | 0%   | 0%    | 15%      | 17%      | 16%       | 1%                | 20%     | 80%   | 40%     | 57%      | 65%    | 0%     | 100%    | 32%    | 100%     | 23%    |
|      | range     | 5.3  | 24    | <0.1     | 0        | 0         | <0.01             | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | 0.001  | <0.0001 | <0.001 | <0.01    | <0.005 |
| BCDS |           | 9    | 480   | 1.1      | 43       | 1470      | 350               | 0.011   | 0.07  | 0.0014  | 0.004    | 0.025  | 0.158  | <0.0001 | 0.025  | <0.01    | 0.073  |
|      | n (total) | 7    | 7     | 7        | 7        | 7         | 7                 | 7       | 7     | 7       | 7        | 7      | 7      | 7       | 7      | 7        | 7      |
|      | n (< BDL) | 0    | 0     | 4        | 2        | 0         | 0                 | 0       | 7     | 7       | 5        | 7      | 4      | 7       | 7      | 7        | 7      |
|      | n (% BDL) | 0%   | 0%    | 57%      | 29%      | 0%        | 0%                | 0%      | 100%  | 100%    | 71%      | 100%   | 57%    | 100%    | 100%   | 100%     | 100%   |
| BCDS | range     | 6.24 | 37    | <0.1     | 0        | 4.8       | 0.11              | 0.008   | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | <0.005 |
|      |           | 7.37 | 88    | 0.2      | 3        | 38        | 0.63              | 0.07    | <0.05 | <0.0001 | 0.003    | <0.001 | 0.002  | <0.0001 | <0.001 | <0.01    | 0      |
|      | n (total) | 7    | 7     | 7        | 7        | 7         | 7                 | 7       | 7     | 7       | 7        | 7      | 7      | 7       | 7      | 7        | 7      |
|      | n (< BDL) | 0    | 0     | 4        | 1        | 0         | 0                 | 0       | 7     | 6       | 6        | 7      | 5      | 7       | 7      | 7        | 5      |
| BCDS | n (% BDL) | 0%   | 0%    | 57%      | 14%      | 0%        | 0%                | 0%      | 100%  | 86%     | 86%      | 100%   | 71%    | 100%    | 100%   | 100%     | 71%    |
|      | range     | 6.75 | 38    | <0.1     | 0        | 4.5       | 0.02              | 0.007   | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | <0.005 |
|      |           | 7.33 | 70    | 0.1      | 3        | 25        | 0.7               | 0.071   | <0.05 | 0.0001  | 0.004    | <0.001 | 0.014  | <0.0001 | <0.001 | <0.01    | 0.026  |

All sample analytical results = instrument detection limit

All non below detection limit results < DL + 0.002 mg/L (2 parts-per-billion)

All results either BDL and or < trigger level

Table 4: Surface Sample Site versus Analyte Results Equal to Detection Limit (total metals)

|      |           | Total Metals |         |       |         |          |        |        |         |        |          |        |
|------|-----------|--------------|---------|-------|---------|----------|--------|--------|---------|--------|----------|--------|
| Site | Statistic | Aluminium    | Arsenic | Boron | Cadmium | Chromium | Cobalt | Copper | Mercury | Nickel | Selenium | Zinc   |
| SW1  | n (total) | 6            | 6       | 6     | 6       | —        | 6      | 6      | 6       | 6      | 6        | 47     |
|      | n (< BDL) | 0            | 0       | 6     | 6       | —        | 2      | 0      | 6       | 0      | 6        | 5      |
|      | n (% BDL) | 0%           | 0%      | 100%  | 100%    | —        | 33%    | 0%     | 100%    | 0%     | 100%     | 11%    |
|      | range     | 0.43         | 0.004   | <0.05 | <0.0001 | —        | <0.001 | 0.009  | <0.0001 | 0.002  | <0.01    | <0.005 |
|      |           | 1.18         | 0.014   | <0.05 | <0.0001 | —        | 0.002  | 0.036  | <0.0001 | 0.006  | <0.01    | 0.049  |
| SW2  | n (total) | 6            | 6       | 6     | 6       | —        | 6      | 6      | 6       | 6      | 6        | 6      |
|      | n (< BDL) | 0            | 0       | 6     | 3       | —        | 0      | 0      | 4       | 0      | 6        | 0      |
|      | n (% BDL) | 0%           | 0%      | 100%  | 50%     | —        | 0%     | 0%     | 67%     | 0%     | 100%     | 0%     |
|      | range     | 1.06         | 0.008   | <0.05 | <0.0001 | —        | 0.001  | 0.009  | <0.0001 | 0.002  | <0.01    | 0.02   |
|      |           | 112          | 0.255   | <0.05 | 0.002   | —        | 0.159  | 0.577  | 0.0017  | 0.124  | <0.01    | 0.81   |
| SW3a | n (total) | 4            | 4       | 4     | 4       | —        | 4      | 4      | 4       | 4      | 4        | 4      |
|      | n (< BDL) | 0            | 0       | 4     | 3       | —        | 0      | 0      | 4       | 0      | 4        | 0      |
|      | n (% BDL) | 0%           | 0%      | 100%  | 75%     | —        | 0%     | 0%     | 100%    | 0%     | 100%     | 0%     |
|      | range     | 0.73         | 0.005   | <0.05 | <0.0001 | —        | 0.001  | 0.006  | <0.0001 | 0.002  | <0.01    | 0.019  |
|      |           | 2.29         | 0.026   | <0.05 | 0.0001  | —        | 0.009  | 0.009  | <0.0001 | 0.005  | <0.01    | 0.046  |
| SW3b | n (total) | 6            | 6       | 6     | 6       | —        | 6      | 6      | 6       | 6      | 6        | 6      |
|      | n (< BDL) | 0            | 0       | 6     | 6       | —        | 2      | 0      | 6       | 1      | 6        | 0      |
|      | n (% BDL) | 0%           | 0%      | 100%  | 100%    | —        | 33%    | 0%     | 100%    | 17%    | 100%     | 0%     |
|      | range     | 0.31         | 0.001   | <0.05 | <0.0001 | —        | <0.001 | 0.002  | <0.0001 | 0.001  | <0.01    | 0.011  |
|      |           | 0.69         | 0.002   | <0.05 | <0.0001 | —        | 0.004  | 0.004  | <0.0001 | 0.002  | <0.01    | 0.037  |
| SW6  | n (total) | 4            | 4       | 4     | 4       | —        | 4      | 4      | 4       | 4      | 4        | 4      |
|      | n (< BDL) | 0            | 0       | 4     | 3       | —        | 0      | 0      | 4       | 0      | 4        | 0      |
|      | n (% BDL) | 0%           | 0%      | 100%  | 75%     | —        | 0%     | 0%     | 100%    | 0%     | 100%     | 0%     |
|      | range     | 0.59         | 0.006   | <0.05 | <0.0001 | —        | 0.001  | 0.009  | <0.0001 | 0.003  | <0.01    | 0.012  |
|      |           | 12.4         | 0.008   | 0     | 0.0003  | —        | 0.016  | 0.018  | <0.0001 | 0.007  | <0.01    | 0.018  |
| BCUS | n (total) | 5            | 5       | 5     | 5       | —        | 5      | 5      | 5       | 5      | 5        | 5      |
|      | n (< BDL) | 0            | 0       | 5     | 5       | —        | 5      | 0      | 5       | 5      | 5        | 5      |
|      | n (% BDL) | 0%           | 0%      | 100%  | 100%    | —        | 100%   | 0%     | 100%    | 100%   | 100%     | 100%   |
|      | range     | 0.23         | 0.016   | <0.05 | <0.0001 | —        | <0.001 | 0.001  | <0.0001 | <0.001 | <0.01    | <0.005 |
|      |           | 0.91         | 0.035   | <0.05 | <0.0001 | —        | <0.001 | 0.001  | <0.0001 | <0.001 | <0.01    | <0.005 |
| BCDS | n (total) | 5            | 5       | 5     | 5       | —        | 5      | 5      | 5       | 5      | 5        | 5      |
|      | n (< BDL) | 0            | 0       | 5     | 2       | —        | 5      | 1      | 5       | 5      | 5        | 1      |
|      | n (% BDL) | 0%           | 0%      | 100%  | 40%     | —        | 100%   | 20%    | 100%    | 100%   | 100%     | 20%    |
|      | range     | 0.19         | 0.016   | <0.05 | <0.0001 | —        | <0.001 | 0.002  | <0.0001 | <0.001 | <0.01    | <0.005 |
|      |           | 0.91         | 0.033   | <0.05 | 0.0001  | —        | <0.001 | 0.004  | <0.0001 | <0.001 | <0.01    | 0.009  |

All sample analytical results = instrument detection limit

All non below detection limit results &lt; DL + 0.002 mg/L (2 parts-per-billion)

Table 5: Bore Sample Site versus Analyte Results Equal to Detection Limit

| Site  | Statistic | pH   | EC   | Sulphate | Fluoride | Aluminium | Arsenic | Boron | Cadmium | Chromium | Cobalt | Copper | Mercury | Nickel | Selenium | Zinc   |
|-------|-----------|------|------|----------|----------|-----------|---------|-------|---------|----------|--------|--------|---------|--------|----------|--------|
| BH-01 | n (total) | 48   | 48   | 48       | 10       | 21        | 22      | 9     | 22      | 9        | 17     | 22     | 9       | 22     | 9        | 22     |
|       | n (< BDL) | 0    | 0    | 0        | 0        | 15        | 0       | 8     | 10      | 8        | 17     | 9      | 9       | 15     | 9        | 0      |
|       | n (% BDL) | 0%   | 0%   | 0%       | 0%       | 71%       | 0%      | 89%   | 45%     | 89%      | 100%   | 41%    | 100%    | 68%    | 100%     | 0%     |
|       | range     | 6.12 | 985  | 310      | 3.3      | <0.01     | 0.01    | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0.01   |
|       |           | 8    | 2260 | 1160     | 4.7      | 0.25      | 0.022   | 0.031 | 0.0025  | 0.001    | 0      | 0.05   | 0       | 0.005  | 0        | 0.18   |
| BH-02 | n (total) | 51   | 51   | 50       | 13       | 24        | 25      | 12    | 25      | 12       | 21     | 25     | 12      | 25     | 12       | 25     |
|       | n (< BDL) | 0    | 0    | 0        | 0        | 0         | 16      | 11    | 3       | 11       | 7      | 5      | 12      | 0      | 12       | 0      |
|       | n (% BDL) | 0%   | 0%   | 0%       | 0%       | 0%        | 64%     | 92%   | 12%     | 92%      | 33%    | 20%    | 100%    | 0%     | 100%     | 0%     |
|       | range     | 3.3  | 740  | 260      | 0.8      | 0.16      | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | 0.025  | <0.01    | 0.043  |
|       |           | 6.5  | 1300 | 850      | 1.5      | 2.7       | 0.09    | 0.018 | 0.0066  | 0.002    | 0.089  | 0.099  | 0       | 0.146  | 0        | 1.06   |
| BH-03 | n (total) | 45   | 45   | 45       | 13       | 20        | 23      | 12    | 23      | 12       | 19     | 23     | 12      | 20     | 12       | 23     |
|       | n (< BDL) | 0    | 0    | 0        | 0        | 0         | 7       | 11    | 14      | 11       | 16     | 3      | 12      | 12     | 12       | 8      |
|       | n (% BDL) | 0%   | 0%   | 0%       | 0%       | 0%        | 30%     | 92%   | 61%     | 92%      | 84%    | 13%    | 100%    | 60%    | 100%     | 35%    |
|       | range     | 5.5  | 110  | 20       | 0.3      | 0.03      | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0      |
|       |           | 8    | 3000 | 990      | 5.3      | 3.04      | 0.332   | 0.015 | 0.0018  | 0.002    | 0.006  | 0.025  | 0       | 0.004  | 0        | 2.9    |
| BH-05 | n (total) | 23   | 23   | 23       | 13       | 23        | 23      | 12    | 23      | 12       | 20     | 23     | 12      | 23     | 12       | 23     |
|       | n (< BDL) | 0    | 0    | 0        | 0        | 18        | 4       | 11    | 2       | 11       | 19     | 4      | 12      | 18     | 12       | 0      |
|       | n (% BDL) | 0%   | 0%   | 0%       | 0%       | 78%       | 17%     | 92%   | 9%      | 92%      | 95%    | 17%    | 100%    | 78%    | 100%     | 0%     |
|       | range     | 7.05 | 4900 | 1400     | 4.4      | <0.01     | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0.0025 |
|       |           | 8.37 | 6800 | 2080     | 10.9     | 0.29      | 0.009   | 0.042 | 0.0022  | 0.003    | 0.05   | 0.03   | 0       | 0.005  | 0        | 0.065  |
| BH-07 | n (total) | 48   | 48   | 48       | 13       | 23        | 23      | 12    | 26      | 12       | 20     | 26     | 12      | 23     | 12       | 26     |
|       | n (< BDL) | 0    | 0    | 0        | 0        | 5         | 5       | 11    | 4       | 11       | 9      | 1      | 12      | 9      | 12       | 0      |
|       | n (% BDL) | 0%   | 0%   | 0%       | 0%       | 22%       | 22%     | 92%   | 15%     | 92%      | 45%    | 4%     | 100%    | 39%    | 100%     | 0%     |
|       | range     | 6    | 5000 | 350      | 5.9      | <0.01     | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0.01   |
|       |           | 8    | 8700 | 2600     | 12.8     | 0.16      | 0.049   | 0.041 | 0.0032  | 0.002    | 0.07   | 0.051  | 0       | 0.032  | 0        | 0.241  |
| BH-08 | n (total) | 12   | 12   | 12       | 12       | 12        | 12      | 12    | 12      | 12       | 12     | 12     | 12      | 12     | 12       | 12     |
|       | n (< BDL) | 0    | 0    | 0        | 1        | 1         | 0       | 11    | 9       | 11       | 7      | 2      | 12      | 1      | 12       | 0      |
|       | n (% BDL) | 0%   | 0%   | 0%       | 8%       | 8%        | 0%      | 92%   | 75%     | 92%      | 58%    | 17%    | 100%    | 8%     | 100%     | 0%     |
|       | range     | 5.31 | 110  | 8        | 0        | <0.01     | 0.002   | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0.014  |
|       |           | 7.5  | 226  | 41       | 1.4      | 0.092     | 0.022   | 0.014 | 0.0016  | 0.002    | 0.002  | 0.01   | 0       | 0.005  | 0        | 0.068  |
| BH-09 | n (total) | 12   | 12   | 12       | 12       | 12        | 12      | 12    | 12      | 12       | 12     | 12     | 12      | 12     | 12       | 12     |
|       | n (< BDL) | 0    | 0    | 5        | 9        | 2         | 10      | 11    | 11      | 11       | 12     | 4      | 12      | 12     | 12       | 1      |
|       | n (% BDL) | 0%   | 0%   | 42%      | 75%      | 17%       | 83%     | 92%   | 92%     | 92%      | 100%   | 33%    | 100%    | 100%   | 100%     | 8%     |
|       | range     | 5    | 72   | 0        | 0        | <0.01     | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0      |
|       |           | 6.56 | 114  | 2        | 0.2      | 0.29      | 0.002   | 0.01  | 0.0024  | 0.002    | 0      | 0.027  | 0       | 0      | 0        | 0.042  |

Croydon Gold Mine

| Site  | Statistic | pH   | EC   | Sulphate | Fluoride | Aluminium | Arsenic | Boron | Cadmium | Chromium | Cobalt | Copper | Mercury | Nickel | Selenium | Zinc  |
|-------|-----------|------|------|----------|----------|-----------|---------|-------|---------|----------|--------|--------|---------|--------|----------|-------|
| BH-10 | n (total) | 12   | 12   | 12       | 12       | 12        | 12      | 12    | 12      | 12       | 12     | 12     | 12      | 12     | 12       | 12    |
|       | n (< BDL) | 0    | 0    | 0        | 1        | 10        | 0       | 11    | 10      | 9        | 2      | 0      | 12      | 0      | 12       | 2     |
|       | n (% BDL) | 0%   | 0%   | 0%       | 8%       | 83%       | 0%      | 92%   | 83%     | 75%      | 17%    | 0%     | 100%    | 0%     | 100%     | 17%   |
|       | range     | 7.15 | 1760 | 503      | 0        | <0.01     | 0.001   | <0.05 | <0.0001 | <0.001   | <0.001 | 0.001  | <0.0001 | 0.001  | <0.01    | 0     |
|       |           | 11.7 | 2750 | 1290     | 3.7      | 0.1       | 0.047   | 0.01  | 0.0003  | 0.015    | 0.027  | 0.012  | <0.0001 | 0.011  | <0.01    | 0.078 |
| BH-11 | n (total) | 12   | 12   | 12       | 12       | 12        | 12      | 12    | 12      | 12       | 12     | 12     | 12      | 12     | 12       | 12    |
|       | n (< BDL) | 0    | 0    | 0        | 0        | 9         | 0       | 11    | 11      | 11       | 10     | 0      | 12      | 4      | 12       | 0     |
|       | n (% BDL) | 0%   | 0%   | 0%       | 0%       | 75%       | 0%      | 92%   | 92%     | 92%      | 83%    | 0%     | 100%    | 33%    | 100%     | 0%    |
|       | range     | 6.9  | 331  | 45       | 2.1      | <0.01     | 0.025   | <0.05 | <0.0001 | <0.001   | <0.001 | 0.001  | <0.0001 | <0.001 | <0.01    | 0.005 |
|       |           | 8.1  | 436  | 57       | 3.8      | 0.01      | 0.092   | 0.029 | 0.0034  | 0.002    | 0.013  | 0.02   | <0.0001 | 0.005  | <0.01    | 0.043 |
| BH-12 | n (total) | 12   | 12   | 12       | 12       | 12        | 12      | 12    | 12      | 12       | 12     | 12     | 12      | 12     | 12       | 12    |
|       | n (< BDL) | 0    | 0    | 0        | 0        | 9         | 0       | 11    | 10      | 11       | 8      | 3      | 12      | 5      | 12       | 3     |
|       | n (% BDL) | 0%   | 0%   | 0%       | 0%       | 75%       | 0%      | 92%   | 83%     | 92%      | 67%    | 25%    | 100%    | 42%    | 100%     | 25%   |
|       | range     | 7.2  | 1380 | 159      | 3.8      | <0.01     | 0.015   | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0     |
|       |           | 8.44 | 1800 | 202      | 5.2      | 0.03      | 0.094   | 0.023 | 0.002   | 0.003    | 0.015  | 0.018  | <0.0001 | 0.004  | <0.01    | 0.03  |
| GBMB1 | n (total) | 36   | 36   | 35       | 11       | 19        | 36      | 11    | 36      | 11       | 18     | 33     | 11      | 19     | 11       | 36    |
|       | n (< BDL) | 0    | 0    | 0        | 0        | 6         | 1       | 10    | 10      | 11       | 18     | 5      | 11      | 14     | 11       | 2     |
|       | n (% BDL) | 0%   | 0%   | 0%       | 0%       | 32%       | 3%      | 91%   | 28%     | 100%     | 100%   | 15%    | 100%    | 74%    | 100%     | 6%    |
|       | range     | 6.3  | 160  | 36       | 1        | <0.01     | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0     |
|       |           | 7.91 | 3070 | 260      | 2.4      | 0.14      | 0.037   | 0.02  | 0.0091  | 0        | 0      | 0.15   | <0.0001 | 0.004  | <0.01    | 0.24  |
| GBMB3 | n (total) | 42   | 42   | 41       | 11       | 19        | 42      | 10    | 42      | 10       | 18     | 42     | 10      | 19     | 10       | 42    |
|       | n (< BDL) | 0    | 0    | 3        | 7        | 0         | 0       | 9     | 11      | 9        | 13     | 3      | 10      | 11     | 10       | 0     |
|       | n (% BDL) | 0%   | 0%   | 7%       | 64%      | 0%        | 0%      | 90%   | 26%     | 90%      | 72%    | 7%     | 100%    | 58%    | 100%     | 0%    |
|       | range     | 5.2  | 34   | 0        | 0        | 0.05      | 0.0025  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0.006 |
|       |           | 8.18 | 5460 | 59       | 0.9      | 4.8       | 0.038   | 0.016 | 0.0025  | 0.002    | 0.007  | 0.03   | <0.0001 | 0.004  | <0.01    | 0.5   |
| GBMB6 | n (total) | 44   | 44   | 44       | 11       | 21        | 44      | 10    | 45      | 10       | 18     | 45     | 10      | 22     | 10       | 40    |
|       | n (< BDL) | 0    | 0    | 11       | 1        | 8         | 0       | 9     | 10      | 9        | 12     | 7      | 10      | 10     | 10       | 2     |
|       | n (% BDL) | 0%   | 0%   | 25%      | 9%       | 38%       | 0%      | 90%   | 22%     | 90%      | 67%    | 16%    | 100%    | 45%    | 100%     | 5%    |
|       | range     | 5.2  | 9    | 0        | 0        | <0.01     | 0.0025  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0     |
|       |           | 7.47 | 580  | 62       | 1        | 0.69      | 0.15    | 0.013 | 0.042   | 0.003    | 0.002  | 0.049  | <0.0001 | 0.005  | <0.01    | 0.37  |
| SY1   | n (total) | 12   | 12   | 12       | 12       | 12        | 12      | 12    | 12      | 12       | 12     | 12     | 12      | 12     | 12       | 12    |
|       | n (< BDL) | 0    | 0    | 7        | 10       | 4         | 5       | 11    | 11      | 11       | 2      | 4      | 12      | 8      | 12       | 0     |
|       | n (% BDL) | 0%   | 0%   | 58%      | 83%      | 33%       | 42%     | 92%   | 92%     | 92%      | 17%    | 33%    | 100%    | 67%    | 100%     | 0%    |
|       | range     | 5.63 | 48   | 0        | 0        | <0.01     | <0.001  | <0.05 | <0.0001 | <0.001   | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01    | 0.006 |
|       |           | 7.01 | 70   | 3        | 0.2      | 0.31      | 0.004   | 0.012 | 0.0039  | 0.002    | 0.003  | 0.04   | <0.0001 | 0.001  | <0.01    | 0.04  |

All sample analytical results = instrument detection limit

Single analytical result > instrument detection limit

Table 6: All Bore Sites - Analyte Data versus Existing Contaminant Limits

| Site  | pH  | EC  | Sulphate | Fluoride | Aluminium | Arsenic | Boron  | Cadmium | Chromium | Cobalt | Copper | Mercury | Nickel | Selenium | Zinc |
|-------|-----|-----|----------|----------|-----------|---------|--------|---------|----------|--------|--------|---------|--------|----------|------|
| BH-1  | Yes | Yes | Yes      | No       | Yes       | Yes     | Delete | Delete  | Delete   | Delete | Yes    | Delete  | Delete | Delete   | Yes  |
| BH-2  | No  | Yes | Yes      | Yes      | Yes       | Yes     | Delete | Yes     | Delete   | Yes    | Yes    | Delete  | Yes    | Delete   | Yes  |
| BH-3  | Yes | Yes | Yes      | No       | Yes       | Yes     | Delete | Yes     | Delete   | Yes    | Yes    | Delete  | Delete | Delete   | Yes  |
| BH-5  | Yes | No  | No       | No       | Yes       | Yes     | Delete | Yes     | Delete   | Yes    | Yes    | Delete  | Delete | Delete   | Yes  |
| BH-7  | Yes | No  | No       | No       | Yes       | Yes     | Delete | Yes     | Delete   | Yes    | Yes    | Delete  | Delete | Delete   | Yes  |
| BH-8  | Yes | Yes | Yes      | Yes      | Yes       | Yes     | Delete | Delete  | Delete   | Delete | Yes    | Delete  | Delete | Delete   | Yes  |
| BH-9  | Yes | Yes | Yes      | Yes      | Yes       | Yes     | Delete | Delete  | Delete   | Delete | Yes    | Delete  | Delete | Delete   | Yes  |
| BH-10 | Yes | Yes | No       | No       | Yes       | Yes     | Delete | Yes     | Delete   | Yes    | Yes    | Delete  | Delete | Delete   | Yes  |
| BH-11 | Yes | Yes | Yes      | No       | Yes       | Yes     | Delete | Yes     | Delete   | Yes    | Yes    | Delete  | Delete | Delete   | Yes  |
| BH-12 | Yes | Yes | Yes      | No       | Yes       | Yes     | Delete | Yes     | Delete   | Yes    | Yes    | Delete  | Delete | Delete   | Yes  |
| GBMB1 | Yes | Yes | Yes      | No       | Yes       | Yes     | Delete | Delete  | Delete   | Delete | Yes    | Delete  | Delete | Delete   | Yes  |
| GBMB3 | Yes | Yes | Yes      | Yes      | Yes       | Yes     | Delete | Delete  | Delete   | Delete | Yes    | Delete  | Delete | Delete   | Yes  |
| GBMB6 | Yes | Yes | Yes      | Yes      | Yes       | Yes     | Delete | Delete  | Delete   | Delete | Yes    | Delete  | Delete | Delete   | Yes  |
| SY1   | Yes | Yes | Yes      | Yes      | Yes       | Yes     | Delete | Delete  | Delete   | Delete | Yes    | Delete  | Delete | Delete   | Yes  |

|  |                                                                                                     |
|--|-----------------------------------------------------------------------------------------------------|
|  | Proposed deleted analyte due to all results below analytical detection limits                       |
|  | Proposed deleted analyte due to rock/aquifer type and all results below analytical detection limits |
|  | All existing data below current contaminant limit (Schedule F Table 11)                             |
|  | Exceedance of current contaminant limit (Schedule F Table 11)                                       |

Table 7: Descriptive Statistics

| site | statistic       | pH     | EC     | Sulphate | Fluoride | Aluminium | Arsenic | Boron  | Cadmium | Chromium | Cobalt | Copper | Mercury  | Nickel | Selenium | Zinc  |
|------|-----------------|--------|--------|----------|----------|-----------|---------|--------|---------|----------|--------|--------|----------|--------|----------|-------|
| BH01 | Mean            | 7.27   | 1310   | 470      | 3.69     | 0.052     | 0.014   | 0.047  | 0.0002  | 0.004    | 0.021  | 0.008  | 0.0001   | 0.024  | 0.009    | 0.045 |
|      | 95% Conf. Lower | 7.16   | 1256   | 436      | 3.50     | 0.027     | 0.013   | 0.041  | 0.0000  | 0.000    | 0.008  | 0.003  | 0.0001   | 0.012  | 0.007    | 0.027 |
|      | 95% Conf. Upper | 7.37   | 1364   | 504      | 3.87     | 0.077     | 0.015   | 0.054  | 0.0005  | 0.008    | 0.035  | 0.013  | 0.0001   | 0.035  | 0.011    | 0.063 |
|      | 5% Trimmed Mean | 7.27   | 1298   | 459      | 3.69     | 0.043     | 0.014   | 0.048  | 0.0001  | 0.003    | 0.021  | 0.006  | 0.0001   | 0.023  | 0.009    | 0.039 |
|      | Median          | 7.2    | 1300   | 460      | 3.70     | 0.050     | 0.014   | 0.050  | 0.0001  | 0.001    | 0.005  | 0.007  | 0.0001   | 0.004  | 0.010    | 0.035 |
|      | Variance        | 0.123  | 32821  | 12812    | 0.050    | 0.003     | 0.000   | 0.000  | 0.000   | 0.000    | 0.001  | 0.000  | 0.000    | 0.001  | 0.000    | 0.001 |
|      | Std. Deviation  | 0.351  | 181    | 113      | 0.223    | 0.052     | 0.003   | 0.007  | 0.001   | 0.004    | 0.024  | 0.011  | 0.000    | 0.025  | 0.003    | 0.039 |
|      | Minimum         | 6.12   | 985    | 310      | 3.3      | 0.01      | 0.01    | 0.031  | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.01  |
|      | Maximum         | 8      | 2260   | 1160     | 4        | 0.25      | 0.022   | 0.05   | 0.0025  | 0.01     | 0.05   | 0.05   | 0.0002   | 0.05   | 0.01     | 0.18  |
|      | Range           | 1.88   | 1275   | 850      | 0.7      | 0.24      | 0.012   | 0.019  | 0.0024  | 0.009    | 0.049  | 0.049  | 0.0001   | 0.049  | 0.007    | 0.17  |
|      | Skewness        | -0.267 | 3.036  | 5.134    | -0.409   | 3.274     | 1.255   | -2.646 | 4.460   | 1.230    | 0.442  | 3.420  | 2.646    | 0.213  | -2.646   | 2.469 |
|      | Kurtosis        | 1.444  | 16.718 | 32.051   | 0.014    | 12.710    | 3.091   | 7.000  | 19.919  | -0.840   | -2.086 | 13.657 | 7.000    | -2.178 | 7.000    | 7.775 |
| BH02 | Mean            | 3.70   | 1013   | 429      | 1.20     | 1.337     | 0.007   | 0.047  | 0.0008  | 0.006    | 0.036  | 0.012  | 0.00011  | 0.051  | 0.009    | 0.346 |
|      | 95% Conf. Lower | 3.55   | 969    | 398      | 1.06     | 1.022     | -0.001  | 0.040  | 0.0002  | 0.002    | 0.027  | 0.007  | 8.74E-05 | 0.040  | 0.008    | 0.257 |
|      | 95% Conf. Upper | 3.85   | 1057   | 461      | 1.34     | 1.652     | 0.015   | 0.054  | 0.0014  | 0.009    | 0.046  | 0.016  | 0.000133 | 0.063  | 0.011    | 0.435 |
|      | 5% Trimmed Mean | 3.63   | 1011   | 422      | 1.21     | 1.327     | 0.003   | 0.048  | 0.0006  | 0.006    | 0.035  | 0.010  | 0.000106 | 0.048  | 0.010    | 0.325 |
|      | Median          | 3.60   | 982    | 393      | 1.20     | 1.230     | 0.005   | 0.050  | 0.0005  | 0.006    | 0.034  | 0.010  | 0.0001   | 0.050  | 0.010    | 0.340 |
|      | Variance        | 0.275  | 23572  | 11615    | 0.044    | 0.504     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.001  | 0.000    | 0.042 |
|      | Std. Deviation  | 0.525  | 154    | 108      | 0.210    | 0.710     | 0.018   | 0.010  | 0.001   | 0.005    | 0.020  | 0.010  | 0.000    | 0.028  | 0.002    | 0.206 |
|      | Minimum         | 3.1    | 740    | 260      | 0.8      | 0.16      | 0.001   | 0.018  | 0.0001  | 0.001    | 0.016  | 0.002  | 0.0001   | 0.025  | 0.003    | 0.043 |
|      | Maximum         | 6.5    | 1300   | 850      | 1.4      | 2.7       | 0.09    | 0.05   | 0.0066  | 0.01     | 0.089  | 0.05   | 0.0002   | 0.146  | 0.01     | 1.06  |
|      | Range           | 3.4    | 560    | 590      | 0.6      | 2.54      | 0.089   | 0.032  | 0.0065  | 0.009    | 0.073  | 0.048  | 0.0001   | 0.121  | 0.007    | 1.017 |
|      | Skewness        | 3.651  | 0.191  | 1.380    | -0.795   | 0.292     | 4.714   | -3.162 | 3.811   | -0.014   | 0.902  | 2.584  | 3.162    | 2.023  | -3.162   | 1.955 |
|      | Kurtosis        | 16.946 | -0.921 | 3.492    | -0.341   | -0.612    | 22.46   | 10.000 | 15.883  | -2.546   | 1.044  | 9.030  | 10.000   | 5.405  | 10.000   | 5.972 |

## Croydon Gold Mine

| site | statistic       | pH     | EC     | Sulphate | Fluoride | Aluminium | Arsenic | Boron  | Cadmium | Chromium | Cobalt | Copper | Mercury  | Nickel | Selenium | Zinc   |
|------|-----------------|--------|--------|----------|----------|-----------|---------|--------|---------|----------|--------|--------|----------|--------|----------|--------|
| BH03 | Mean            | 6.53   | 576    | 158      | 2.42     | 0.518     | 0.010   | 0.047  | 0.0003  | 0.006    | 0.009  | 0.008  | 0.00011  | 0.015  | 0.009    | 0.156  |
|      | 95% Conf. Lower | 6.35   | 416    | 109      | 1.42     | 0.127     | 0.006   | 0.039  | 0.0001  | 0.002    | 0.003  | 0.004  | 8.74E-05 | 0.004  | 0.008    | -0.130 |
|      | 95% Conf. Upper | 6.72   | 737    | 207      | 3.42     | 0.910     | 0.014   | 0.054  | 0.0004  | 0.009    | 0.014  | 0.011  | 0.000133 | 0.026  | 0.011    | 0.442  |
|      | 5% Trimmed Mean | 6.52   | 515    | 136      | 2.42     | 0.405     | 0.010   | 0.048  | 0.0002  | 0.006    | 0.008  | 0.007  | 0.000106 | 0.014  | 0.010    | 0.020  |
|      | Median          | 6.60   | 360    | 100      | 2.60     | 0.270     | 0.008   | 0.050  | 0.0001  | 0.006    | 0.003  | 0.004  | 0.0001   | 0.002  | 0.010    | 0.012  |
|      | Variance        | 0.349  | 272732 | 25238    | 2.214    | 0.620     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.396  |
|      | Std. Deviation  | 0.590  | 522    | 159      | 1.488    | 0.787     | 0.009   | 0.011  | 0.000   | 0.005    | 0.011  | 0.008  | 0.000    | 0.022  | 0.002    | 0.629  |
|      | Minimum         | 5.5    | 110    | 20       | 0.3      | 0.03      | 0.001   | 0.015  | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.005  |
|      | Maximum         | 8      | 3000   | 990      | 4.5      | 3.04      | 0.031   | 0.05   | 0.0018  | 0.01     | 0.025  | 0.025  | 0.0002   | 0.05   | 0.01     | 2.9    |
|      | Range           | 2.5    | 2890   | 970      | 4.2      | 3.01      | 0.03    | 0.035  | 0.0017  | 0.009    | 0.024  | 0.024  | 0.0001   | 0.049  | 0.007    | 2.895  |
|      | Skewness        | 0.224  | 2.633  | 3.679    | -0.258   | 2.627     | 1.656   | -3.162 | 3.171   | -0.014   | 0.934  | 1.510  | 3.162    | 1.081  | -3.162   | 4.574  |
|      | Kurtosis        | -0.544 | 10.076 | 17.811   | -1.078   | 6.625     | 1.790   | 10.000 | 10.743  | -2.546   | -1.204 | 1.242  | 10.000   | -0.944 | 10.000   | 20.943 |
| BH05 | Mean            | 7.51   | 5584   | 1807     | 7.19     | 0.046     | 0.014   | 0.049  | 0.0004  | 0.006    | 0.026  | 0.005  | 0.00011  | 0.020  |          | 0.015  |
|      | 95% Conf. Lower | 7.39   | 5352   | 1731     | 6.29     | 0.019     | 0.006   | 0.047  | 0.0002  | 0.003    | 0.013  | 0.002  | 8.74E-05 | 0.009  |          | 0.009  |
|      | 95% Conf. Upper | 7.63   | 5816   | 1883     | 8.09     | 0.073     | 0.022   | 0.051  | 0.0006  | 0.009    | 0.038  | 0.008  | 0.000133 | 0.031  |          | 0.021  |
|      | 5% Trimmed Mean | 7.49   | 5555   | 1816     | 7.19     | 0.035     | 0.013   | 0.050  | 0.0003  | 0.006    | 0.026  | 0.004  | 0.000106 | 0.019  |          | 0.013  |
|      | Median          | 7.50   | 5600   | 1800     | 7.40     | 0.05      | 0.006   | 0.05   | 0.0003  | 0.008    | 0.026  | 0.004  | 0.0001   | 0.002  |          | 0.012  |
|      | Variance        | 0.072  | 259085 | 27881    | 1.785    | 0.004     | 0.000   | 0.000  | 0.000   | 0.000    | 0.001  | 0.000  | 0.000    | 0.001  |          | 0.000  |
|      | Std. Deviation  | 0.268  | 509    | 167.0    | 1.336    | 0.059     | 0.018   | 0.003  | 0.000   | 0.004    | 0.025  | 0.006  | 0.000    | 0.024  |          | 0.013  |
|      | Minimum         | 7.05   | 4900   | 1400     | 4.4      | 0.01      | 0.004   | 0.042  | 0.0001  | 0.001    | 0.001  | 0.0005 | 0.0001   | 0.001  |          | 0.0025 |
|      | Maximum         | 8.37   | 6800   | 2050     | 10       | 0.29      | 0.05    | 0.05   | 0.0022  | 0.01     | 0.05   | 0.03   | 0.0002   | 0.05   |          | 0.065  |
|      | Range           | 1.32   | 1900   | 650      | 5.6      | 0.28      | 0.046   | 0.008  | 0.0021  | 0.009    | 0.049  | 0.0295 | 0.0001   | 0.049  |          | 0.0625 |
|      | Skewness        | 1.505  | 1.065  | -0.816   | 0.002    | 3.732     | 1.684   | -3.162 | 3.248   | -0.235   | 0.000  | 3.121  | 3.162    | 0.521  |          | 2.953  |
|      | Kurtosis        | 4.507  | 1.099  | 0.534    | 2.953    | 15.772    | 0.947   | 10.000 | 12.318  | -2.207   | -2.267 | 11.573 | 10.000   | -1.910 |          | 10.704 |

Released

Croydon Gold Mine

| site | statistic       | pH     | EC     | Sulphate | Fluoride | Aluminium | Arsenic | Boron  | Cadmium | Chromium | Cobalt | Copper | Mercury  | Nickel | Selenium | Zinc   |
|------|-----------------|--------|--------|----------|----------|-----------|---------|--------|---------|----------|--------|--------|----------|--------|----------|--------|
| BH07 | Mean            | 6.74   | 6922   | 1821     | 7.02     | 0.034     | 0.011   | 0.049  | 0.0009  | 0.006    | 0.019  | 0.011  | 0.00011  | 0.019  |          | 0.072  |
|      | 95% Conf. Lower | 6.62   | 6630   | 1701     | 6.27     | 0.020     | 0.006   | 0.047  | 0.0005  | 0.003    | 0.010  | 0.006  | 8.74E-05 | 0.015  |          | 0.050  |
|      | 95% Conf. Upper | 6.85   | 7213   | 1940     | 7.77     | 0.048     | 0.016   | 0.051  | 0.0012  | 0.009    | 0.027  | 0.016  | 0.000133 | 0.023  |          | 0.095  |
|      | 5% Trimmed Mean | 6.72   | 6941   | 1848     | 6.91     | 0.028     | 0.009   | 0.050  | 0.0008  | 0.006    | 0.017  | 0.009  | 0.000106 | 0.019  |          | 0.067  |
|      | Median          | 6.69   | 7100   | 1900     | 6.90     | 0.025     | 0.005   | 0.05   | 0.0006  | 0.008    | 0.015  | 0.005  | 0.0001   | 0.020  |          | 0.053  |
|      | Variance        | 0.148  | 965249 | 162115   | 1.242    | 0.001     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  |          | 0.003  |
|      | Std. Deviation  | 0.385  | 982    | 403      | 1.114    | 0.031     | 0.011   | 0.003  | 0.001   | 0.004    | 0.016  | 0.012  | 0.000    | 0.008  |          | 0.054  |
|      | Minimum         | 6      | 5000   | 350      | 5.9      | 0.01      | 0.004   | 0.041  | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.002  |          | 0.01   |
|      | Maximum         | 8      | 8700   | 2600     | 10       | 0.16      | 0.049   | 0.05   | 0.0032  | 0.01     | 0.07   | 0.051  | 0.0002   | 0.032  |          | 0.241  |
|      | Range           | 2      | 3700   | 2250     | 4.1      | 0.15      | 0.045   | 0.009  | 0.0031  | 0.009    | 0.069  | 0.05   | 0.0001   | 0.03   |          | 0.231  |
|      | Skewness        | 0.822  | -0.466 | -1.137   | 2.113    | 3.650     | 2.481   | -3.162 | 1.391   | -0.199   | 1.831  | 2.017  | 3.162    | -0.713 |          | 1.671  |
|      | Kurtosis        | 1.409  | -0.790 | 3.347    | 5.549    | 14.968    | 6.691   | 10.000 | 1.958   | -2.300   | 4.854  | 4.327  | 10.000   | -0.344 |          | 2.865  |
| BH08 | Mean            | 6.32   | 128.6  | 13.1     | 0.46     | 0.042     | 0.010   | 0.046  | 0.0003  | 0.006    | 0.002  | 0.004  | 0.00011  | 0.002  | 0.009    | 0.038  |
|      | 95% Conf. Lower | 5.82   | 116.3  | 9.9      | 0.28     | 0.025     | 0.005   | 0.038  | -0.0001 | 0.002    | 0.001  | 0.001  | 8.74E-05 | 0.002  | 0.008    | 0.027  |
|      | 95% Conf. Upper | 6.82   | 140.9  | 16.3     | 0.64     | 0.060     | 0.015   | 0.055  | 0.0006  | 0.009    | 0.003  | 0.006  | 0.000133 | 0.003  | 0.011    | 0.050  |
|      | 5% Trimmed Mean | 6.31   | 128.2  | 12.8     | 0.46     | 0.041     | 0.010   | 0.048  | 0.0002  | 0.006    | 0.001  | 0.004  | 0.000106 | 0.002  | 0.010    | 0.038  |
|      | Median          | 6.33   | 123.5  | 12.0     | 0.50     | 0.035     | 0.009   | 0.05   | 0.0001  | 0.006    | 0.001  | 0.002  | 0.0001   | 0.002  | 0.010    | 0.040  |
|      | Variance        | 0.486  | 295    | 20.322   | 0.065    | 0.001     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.000  |
|      | Std. Deviation  | 0.697  | 17     | 4.508    | 0.254    | 0.024     | 0.007   | 0.011  | 0.000   | 0.005    | 0.001  | 0.004  | 0.000    | 0.001  | 0.002    | 0.016  |
|      | Minimum         | 5.31   | 110    | 8        | 0.1      | 0.02      | 0.002   | 0.014  | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.014  |
|      | Maximum         | 7.5    | 155    | 24       | 0.8      | 0.092     | 0.022   | 0.05   | 0.0016  | 0.01     | 0.005  | 0.01   | 0.0002   | 0.004  | 0.01     | 0.068  |
|      | Range           | 2.19   | 45     | 16       | 0.7      | 0.072     | 0.02    | 0.036  | 0.0015  | 0.009    | 0.004  | 0.009  | 0.0001   | 0.003  | 0.007    | 0.054  |
|      | Skewness        | 0.186  | 0.700  | 1.701    | -0.377   | 1.437     | 0.424   | -3.162 | 3.162   | -0.014   | 2.602  | 1.134  | 3.162    | 0.322  | -3.162   | 0.338  |
|      | Kurtosis        | -0.347 | -1.116 | 3.632    | -1.265   | 1.050     | -1.205  | 10.000 | 10.000  | -2.546   | 7.135  | -0.146 | 10.000   | -0.882 | 10.000   | -0.080 |

## Croydon Gold Mine

| site | statistic       | pH     | EC     | Sulphate | Fluoride | Aluminium | Arsenic | Boron  | Cadmium | Chromium | Cobalt | Copper | Mercury  | Nickel | Selenium | Zinc   |
|------|-----------------|--------|--------|----------|----------|-----------|---------|--------|---------|----------|--------|--------|----------|--------|----------|--------|
| BH09 | Mean            | 5.49   | 100.2  | 1.3      | 0.11     | 0.061     | 0.001   | 0.046  | 0.0003  | 0.006    | 0.001  | 0.003  | 0.00011  | 0.001  | 0.009    | 0.022  |
|      | 95% Conf. Lower | 5.18   | 91.7   | 1.0      | 0.08     | 0.002     | 0.001   | 0.037  | -0.0002 | 0.002    | 0.000  | 0.000  | 8.74E-05 | 0.001  | 0.008    | 0.012  |
|      | 95% Conf. Upper | 5.80   | 108.7  | 1.6      | 0.13     | 0.120     | 0.002   | 0.055  | 0.0009  | 0.009    | 0.002  | 0.005  | 0.000133 | 0.001  | 0.011    | 0.032  |
|      | 5% Trimmed Mean | 5.46   | 101.0  | 1.3      | 0.10     | 0.051     | 0.001   | 0.048  | 0.0002  | 0.006    | 0.001  | 0.003  | 0.000106 | 0.001  | 0.010    | 0.022  |
|      | Median          | 5.40   | 100.5  | 1.0      | 0.10     | 0.035     | 0.001   | 0.05   | 0.0001  | 0.006    | 0.001  | 0.002  | 0.0001   | 0.001  | 0.010    | 0.022  |
|      | Variance        | 0.190  | 142    | 0.233    | 0.001    | 0.007     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.000  |
|      | Std. Deviation  | 0.436  | 12     | 0.483    | 0.035    | 0.082     | 0.001   | 0.013  | 0.001   | 0.005    | 0.001  | 0.003  | 0.000    | 0.000  | 0.002    | 0.014  |
|      | Minimum         | 5      | 72     | 1        | 0.06     | 0.02      | 0.001   | 0.01   | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.005  |
|      | Maximum         | 6.56   | 114    | 2        | 0.2      | 0.29      | 0.003   | 0.05   | 0.0024  | 0.01     | 0.005  | 0.012  | 0.0002   | 0.002  | 0.01     | 0.042  |
|      | Range           | 1.56   | 42     | 1        | 0.14     | 0.27      | 0.002   | 0.04   | 0.0023  | 0.009    | 0.004  | 0.011  | 0.0001   | 0.001  | 0.007    | 0.037  |
|      | Skewness        | 1.823  | -1.431 | 1.035    | 2.302    | 2.955     | 3.162   | -3.162 | 3.162   | -0.014   | 3.162  | 2.586  | 3.162    | 3.162  | -3.162   | 0.330  |
|      | Kurtosis        | 4.152  | 3.253  | -1.224   | 7.214    | 8.999     | 10.000  | 10.000 | 10.000  | -2.546   | 10.000 | 7.222  | 10.000   | 10.000 | 10.000   | -1.372 |
| BH10 | Mean            | 9.05   | 2389   | 963      | 1.87     | 0.024     | 0.007   | 0.046  | 0.0001  | 0.007    | 0.010  | 0.005  | 0.00011  | 0.007  | 0.009    | 0.026  |
|      | 95% Conf. Lower | 7.52   | 2106   | 693      | 0.99     | 0.003     | 0.002   | 0.037  | 0.0001  | 0.003    | 0.004  | 0.002  | 8.74E-05 | 0.006  | 0.008    | 0.010  |
|      | 95% Conf. Upper | 10.57  | 2672   | 1234     | 2.74     | 0.045     | 0.011   | 0.055  | 0.0002  | 0.010    | 0.017  | 0.008  | 0.000133 | 0.009  | 0.011    | 0.042  |
|      | 5% Trimmed Mean | 9.00   | 2404   | 971      | 1.89     | 0.021     | 0.006   | 0.048  | 0.0001  | 0.007    | 0.010  | 0.005  | 0.000106 | 0.007  | 0.010    | 0.024  |
|      | Median          | 7.75   | 2625   | 1220     | 2.35     | 0.01      | 0.0035  | 0.05   | 0.0001  | 0.009    | 0.006  | 0.004  | 0.0001   | 0.008  | 0.010    | 0.021  |
|      | Variance        | 4.524  | 156388 | 142812   | 1.495    | 0.001     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.001  |
|      | Std. Deviation  | 2.127  | 395    | 377.9    | 1.223    | 0.030     | 0.006   | 0.013  | 0.000   | 0.005    | 0.009  | 0.004  | 0.000    | 0.002  | 0.002    | 0.023  |
|      | Minimum         | 7.15   | 1760   | 503      | 0.1      | 0.01      | 0.001   | 0.01   | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.005  | 0.003    | 0.005  |
|      | Maximum         | 11.7   | 2750   | 1290     | 3.2      | 0.1       | 0.02    | 0.05   | 0.0003  | 0.015    | 0.027  | 0.012  | 0.0002   | 0.011  | 0.01     | 0.078  |
|      | Range           | 4.55   | 990    | 787      | 3.1      | 0.09      | 0.019   | 0.04   | 0.0002  | 0.014    | 0.026  | 0.011  | 0.0001   | 0.006  | 0.007    | 0.073  |
|      | Skewness        | 0.456  | -0.627 | -0.473   | -0.389   | 2.362     | 1.183   | -3.162 | 3.162   | 0.060    | 0.812  | 0.711  | 3.162    | 0.467  | -3.162   | 1.461  |
|      | Kurtosis        | -2.224 | -1.661 | -2.248   | -1.961   | 5.465     | 0.533   | 10.000 | 10.000  | -1.427   | -0.755 | -0.838 | 10.000   | 0.350  | 10.000   | 2.387  |

Released

Croydon Gold Mine

| site | statistic       | pH    | EC     | Sulphate | Fluoride | Aluminium | Arsenic | Boron  | Cadmium | Chromium | Cobalt | Copper | Mercury  | Nickel | Selenium | Zinc   |
|------|-----------------|-------|--------|----------|----------|-----------|---------|--------|---------|----------|--------|--------|----------|--------|----------|--------|
| BH11 | Mean            | 7.42  | 398    | 50       | 2.56     | 0.014     | 0.052   | 0.048  | 0.0004  | 0.006    | 0.003  | 0.004  | 0.00011  | 0.002  | 0.009    | 0.022  |
|      | 95% Conf. Lower | 7.18  | 370    | 48       | 2.27     | 0.005     | 0.042   | 0.043  | -0.0003 | 0.002    | 0.000  | 0.000  | 8.74E-05 | 0.001  | 0.008    | 0.010  |
|      | 95% Conf. Upper | 7.67  | 427    | 53       | 2.85     | 0.023     | 0.062   | 0.053  | 0.0012  | 0.009    | 0.006  | 0.008  | 0.000133 | 0.003  | 0.011    | 0.034  |
|      | 5% Trimmed Mean | 7.41  | 400    | 50       | 2.55     | 0.012     | 0.053   | 0.049  | 0.0003  | 0.006    | 0.002  | 0.004  | 0.000106 | 0.002  | 0.010    | 0.022  |
|      | Median          | 7.47  | 425    | 51       | 2.45     | 0.01      | 0.056   | 0.05   | 0.0001  | 0.006    | 0.001  | 0.002  | 0.0001   | 0.002  | 0.010    | 0.014  |
|      | Variance        | 0.118 | 1625   | 10.267   | 0.165    | 0.000     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.000  |
|      | Std. Deviation  | 0.344 | 40     | 3.204    | 0.406    | 0.013     | 0.014   | 0.007  | 0.001   | 0.005    | 0.004  | 0.006  | 0.000    | 0.001  | 0.002    | 0.017  |
|      | Minimum         | 6.9   | 331    | 45       | 2.1      | 0.01      | 0.025   | 0.029  | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.005  |
|      | Maximum         | 8.1   | 436    | 56       | 3.2      | 0.05      | 0.07    | 0.05   | 0.0034  | 0.01     | 0.013  | 0.02   | 0.0002   | 0.005  | 0.01     | 0.043  |
|      | Range           | 1.2   | 105    | 11       | 1.1      | 0.04      | 0.045   | 0.021  | 0.0033  | 0.009    | 0.012  | 0.019  | 0.0001   | 0.004  | 0.007    | 0.038  |
|      | Skewness        | 0.354 | -0.666 | 0.103    | 0.338    | 3.162     | -0.877  | -3.162 | 3.162   | -0.014   | 2.561  | 2.815  | 3.162    | 1.718  | -3.162   | 0.414  |
|      | Kurtosis        | 0.595 | -1.550 | 0.112    | -1.581   | 10.000    | 0.019   | 10.000 | 10.000  | -2.546   | 6.809  | 8.322  | 10.000   | 3.418  | 10.000   | -2.125 |
| BH12 | Mean            | 7.71  | 1537   | 185      | 4.42     | 0.016     | 0.023   | 0.047  | 0.0003  | 0.006    | 0.002  | 0.003  | 0.00011  | 0.002  | 0.009    | 0.015  |
|      | 95% Conf. Lower | 7.44  | 1436   | 177      | 4.20     | 0.006     | 0.017   | 0.041  | -0.0001 | 0.002    | 0.001  | 0.000  | 8.74E-05 | 0.001  | 0.008    | 0.008  |
|      | 95% Conf. Upper | 7.97  | 1638   | 192      | 4.64     | 0.026     | 0.029   | 0.053  | 0.0007  | 0.009    | 0.003  | 0.006  | 0.000133 | 0.002  | 0.011    | 0.021  |
|      | 5% Trimmed Mean | 7.69  | 1531   | 185      | 4.43     | 0.014     | 0.022   | 0.049  | 0.0002  | 0.006    | 0.002  | 0.003  | 0.000106 | 0.002  | 0.010    | 0.015  |
|      | Median          | 7.68  | 1510   | 184      | 4.50     | 0.01      | 0.019   | 0.05   | 0.0001  | 0.007    | 0.001  | 0.002  | 0.0001   | 0.001  | 0.010    | 0.016  |
|      | Variance        | 0.136 | 20046  | 108.178  | 0.097    | 0.000     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.000  |
|      | Std. Deviation  | 0.369 | 142    | 10.401   | 0.312    | 0.013     | 0.009   | 0.009  | 0.001   | 0.005    | 0.002  | 0.004  | 0.000    | 0.001  | 0.002    | 0.009  |
|      | Minimum         | 7.2   | 1380   | 173      | 3.8      | 0.01      | 0.015   | 0.023  | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.005  |
|      | Maximum         | 8.44  | 1800   | 202      | 4.9      | 0.05      | 0.044   | 0.05   | 0.002   | 0.01     | 0.005  | 0.014  | 0.0002   | 0.004  | 0.01     | 0.03   |
|      | Range           | 1.24  | 420    | 29       | 1.1      | 0.04      | 0.029   | 0.027  | 0.0019  | 0.009    | 0.004  | 0.013  | 0.0001   | 0.003  | 0.007    | 0.025  |
|      | Skewness        | 0.763 | 0.598  | 0.589    | -0.698   | 2.277     | 1.701   | -3.162 | 3.028   | -0.054   | 1.148  | 2.799  | 3.162    | 1.691  | -3.162   | 0.306  |
|      | Kurtosis        | 0.477 | -0.628 | -0.886   | 0.658    | 4.765     | 3.029   | 10.000 | 9.309   | -2.483   | -0.656 | 8.214  | 10.000   | 1.864  | 10.000   | -1.210 |

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| site  | statistic       | pH     | EC     | Sulphate | Fluoride | Aluminium | Arsenic | Boron  | Cadmium | Chromium | Cobalt | Copper | Mercury  | Nickel | Selenium | Zinc   |
|-------|-----------------|--------|--------|----------|----------|-----------|---------|--------|---------|----------|--------|--------|----------|--------|----------|--------|
| GBMB1 | Mean            | 6.90   | 746    | 168      | 1.81     | 0.031     | 0.015   | 0.047  | 0.0018  | 0.005    | 0.009  | 0.020  | 0.000111 | 0.010  | 0.009    | 0.042  |
|       | 95% Conf. Lower | 6.74   | 592    | 146      | 1.49     | 0.013     | 0.012   | 0.039  | 0.0010  | 0.001    | 0.003  | 0.010  | 8.55E-05 | 0.004  | 0.007    | 0.024  |
|       | 95% Conf. Upper | 7.06   | 900    | 190      | 2.13     | 0.048     | 0.018   | 0.054  | 0.0027  | 0.009    | 0.015  | 0.031  | 0.000137 | 0.016  | 0.011    | 0.059  |
|       | 5% Trimmed Mean | 6.88   | 691    | 170      | 1.83     | 0.026     | 0.015   | 0.048  | 0.0016  | 0.005    | 0.008  | 0.016  | 0.000107 | 0.010  | 0.010    | 0.034  |
|       | Median          | 6.70   | 710    | 180      | 1.90     | 0.025     | 0.013   | 0.05   | 0.0005  | 0.001    | 0.002  | 0.010  | 0.0001   | 0.002  | 0.01     | 0.025  |
|       | Variance        | 0.213  | 194663 | 3845     | 0.171    | 0.001     | 0.000   | 0.000  | 0.0000  | 0.000    | 0.000  | 0.001  | 0.000    | 0.000  | 0.000    | 0.003  |
|       | Std. Deviation  | 0.462  | 441    | 62.0     | 0.414    | 0.034     | 0.010   | 0.010  | 0.002   | 0.005    | 0.011  | 0.030  | 0.000    | 0.011  | 0.002    | 0.051  |
|       | Minimum         | 6.3    | 160    | 36       | 1        | 0.01      | 0.001   | 0.02   | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.005  |
|       | Maximum         | 7.91   | 3070   | 260      | 2.3      | 0.14      | 0.037   | 0.05   | 0.0091  | 0.01     | 0.025  | 0.15   | 0.0002   | 0.025  | 0.01     | 0.24   |
|       | Range           | 1.61   | 2910   | 224      | 1.3      | 0.13      | 0.036   | 0.03   | 0.009   | 0.009    | 0.024  | 0.149  | 0.0001   | 0.024  | 0.007    | 0.235  |
|       | Skewness        | 0.846  | 4.583  | -0.455   | -0.905   | 2.689     | 0.549   | -3.000 | 1.452   | 0.271    | 0.867  | 3.240  | 3.000    | 0.655  | -3.000   | 2.698  |
|       | Kurtosis        | -0.488 | 24.852 | -0.794   | 0.460    | 7.168     | -0.630  | 9.000  | 1.220   | -2.571   | -1.404 | 12.656 | 9.000    | -1.765 | 9.000    | 7.500  |
| GBMB3 | Mean            | 6.09   | 252    | 7        | 0.13     | 0.833     | 0.009   | 0.046  | 0.0003  | 0.005    | 0.011  | 0.016  | 0.000113 | 0.010  | 0.009    | 0.079  |
|       | 95% Conf. Lower | 5.91   | -22    | 5        | 0.05     | 0.106     | 0.007   | 0.036  | 0.0001  | 0.001    | 0.004  | 0.012  | 8.29E-05 | 0.004  | 0.007    | 0.052  |
|       | 95% Conf. Upper | 6.26   | 525    | 9        | 0.21     | 1.560     | 0.011   | 0.056  | 0.0004  | 0.008    | 0.017  | 0.020  | 0.000142 | 0.016  | 0.011    | 0.105  |
|       | 5% Trimmed Mean | 6.04   | 104    | 7        | 0.12     | 0.656     | 0.009   | 0.047  | 0.0002  | 0.004    | 0.010  | 0.016  | 0.000108 | 0.010  | 0.009    | 0.068  |
|       | Median          | 5.95   | 82     | 4        | 0.10     | 0.21      | 0.008   | 0.05   | 0.0001  | 0.002    | 0.003  | 0.025  | 0.0001   | 0.003  | 0.010    | 0.058  |
|       | Variance        | 0.305  | 731831 | 38.476   | 0.010    | 1.999     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.007  |
|       | Std. Deviation  | 0.553  | 855    | 6.203    | 0.102    | 1.414     | 0.006   | 0.012  | 0.000   | 0.005    | 0.012  | 0.011  | 0.000    | 0.011  | 0.002    | 0.083  |
|       | Minimum         | 5.2    | 34     | 1        | 0.07     | 0.05      | 0.0025  | 0.016  | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.006  |
|       | Maximum         | 8.18   | 5460   | 27       | 0.4      | 4.8       | 0.022   | 0.05   | 0.0025  | 0.01     | 0.025  | 0.03   | 0.0002   | 0.025  | 0.01     | 0.5    |
|       | Range           | 2.98   | 5426   | 26       | 0.33     | 4.75      | 0.0195  | 0.034  | 0.0024  | 0.009    | 0.024  | 0.029  | 0.0001   | 0.024  | 0.007    | 0.494  |
|       | Skewness        | 1.644  | 6.091  | 1.430    | 2.942    | 2.178     | 0.676   | -2.828 | 3.698   | 0.624    | 0.549  | -0.355 | 2.828    | 0.664  | -2.828   | 3.528  |
|       | Kurtosis        | 4.307  | 37.851 | 1.911    | 8.761    | 3.829     | -0.458  | 8.000  | 14.595  | -2.233   | -1.928 | -1.869 | 8.000    | -1.764 | 8.000    | 16.983 |

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| site  | statistic       | pH     | EC     | Sulphate | Fluoride | Aluminium | Arsenic | Boron  | Cadmium | Chromium | Cobalt | Copper | Mercury  | Nickel | Selenium | Zinc   |
|-------|-----------------|--------|--------|----------|----------|-----------|---------|--------|---------|----------|--------|--------|----------|--------|----------|--------|
| GBMB6 | Mean            | 6.05   | 131    | 6        | 0.21     | 0.058     | 0.019   | 0.045  | 0.0013  | 0.005    | 0.011  | 0.016  | 0.000113 | 0.011  | 0.009    | 0.055  |
|       | 95% Conf. Lower | 5.90   | 96     | 4        | 0.09     | -0.016    | 0.008   | 0.034  | -0.0007 | 0.001    | 0.004  | 0.012  | 8.29E-05 | 0.006  | 0.007    | 0.031  |
|       | 95% Conf. Upper | 6.21   | 167    | 7        | 0.33     | 0.132     | 0.029   | 0.056  | 0.0032  | 0.008    | 0.017  | 0.019  | 0.000142 | 0.017  | 0.011    | 0.080  |
|       | 5% Trimmed Mean | 6.04   | 114    | 5        | 0.20     | 0.026     | 0.014   | 0.047  | 0.0002  | 0.005    | 0.010  | 0.016  | 0.000108 | 0.011  | 0.009    | 0.043  |
|       | Median          | 5.90   | 91     | 5        | 0.20     | 0.025     | 0.005   | 0.05   | 0.0001  | 0.002    | 0.003  | 0.025  | 0.0001   | 0.003  | 0.010    | 0.025  |
|       | Variance        | 0.246  | 13089  | 23.829   | 0.026    | 0.024     | 0.001   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.006  |
|       | Std. Deviation  | 0.496  | 114    | 4.881    | 0.162    | 0.154     | 0.033   | 0.013  | 0.006   | 0.005    | 0.012  | 0.011  | 0.000    | 0.012  | 0.002    | 0.075  |
|       | Minimum         | 5.2    | 9      | 1        | 0.09     | 0.01      | 0.0025  | 0.013  | 0.00005 | 0.001    | 0.001  | 0.0005 | 0.0001   | 0.001  | 0.003    | 0.0025 |
|       | Maximum         | 7.19   | 580    | 20       | 0.6      | 0.69      | 0.15    | 0.05   | 0.042   | 0.01     | 0.025  | 0.025  | 0.0002   | 0.025  | 0.01     | 0.37   |
|       | Range           | 1.99   | 571    | 19       | 0.51     | 0.68      | 0.1475  | 0.037  | 0.04195 | 0.009    | 0.024  | 0.0245 | 0.0001   | 0.024  | 0.007    | 0.3675 |
|       | Skewness        | 0.692  | 2.840  | 1.975    | 2.035    | 4.306     | 2.482   | -2.828 | 6.484   | 0.566    | 0.549  | -0.366 | 2.828    | 0.423  | -2.828   | 2.912  |
|       | Kurtosis        | -0.234 | 7.905  | 3.307    | 4.593    | 18.668    | 5.831   | 8.000  | 42.320  | -2.228   | -1.928 | -1.810 | 8.000    | -2.008 | 8.000    | 9.251  |
| SY01  | Mean            | 6.08   | 59     | 2        | 0.11     | 0.057     | 0.002   | 0.046  | 0.0005  | 0.006    | 0.002  | 0.006  | 0.00011  | 0.001  | 0.009    | 0.019  |
|       | 95% Conf. Lower | 5.73   | 54     | 1        | 0.08     | -0.008    | 0.001   | 0.038  | -0.0004 | 0.002    | 0.001  | -0.003 | 8.74E-05 | 0.001  | 0.008    | 0.010  |
|       | 95% Conf. Upper | 6.43   | 63     | 2        | 0.13     | 0.122     | 0.003   | 0.055  | 0.0013  | 0.009    | 0.003  | 0.014  | 0.000133 | 0.001  | 0.011    | 0.028  |
|       | 5% Trimmed Mean | 6.05   | 59     | 1        | 0.10     | 0.046     | 0.002   | 0.048  | 0.0003  | 0.006    | 0.002  | 0.004  | 0.000106 | 0.001  | 0.010    | 0.018  |
|       | Median          | 5.90   | 58     | 1        | 0.10     | 0.03      | 0.0015  | 0.05   | 0.0001  | 0.006    | 0.002  | 0.002  | 0.0001   | 0.001  | 0.010    | 0.013  |
|       | Variance        | 0.238  | 40.989 | 0.500    | 0.001    | 0.008     | 0.000   | 0.000  | 0.000   | 0.000    | 0.000  | 0.000  | 0.000    | 0.000  | 0.000    | 0.000  |
|       | Std. Deviation  | 0.488  | 6.402  | 0.707    | 0.035    | 0.091     | 0.001   | 0.012  | 0.001   | 0.005    | 0.001  | 0.012  | 0.000    | 0.000  | 0.002    | 0.013  |
|       | Minimum         | 5.63   | 51     | 1        | 0.06     | 0.01      | 0.001   | 0.012  | 0.0001  | 0.001    | 0.001  | 0.001  | 0.0001   | 0.001  | 0.003    | 0.006  |
|       | Maximum         | 7.01   | 70     | 3        | 0.2      | 0.31      | 0.004   | 0.05   | 0.0039  | 0.01     | 0.005  | 0.04   | 0.0002   | 0.002  | 0.01     | 0.04   |
|       | Range           | 1.38   | 19     | 2        | 0.14     | 0.3       | 0.003   | 0.038  | 0.0038  | 0.009    | 0.004  | 0.039  | 0.0001   | 0.001  | 0.007    | 0.034  |
|       | Skewness        | 1.006  | 0.506  | 1.179    | 2.302    | 2.881     | 1.241   | -3.162 | 3.162   | -0.014   | 1.792  | 3.104  | 3.162    | 3.162  | -3.162   | 0.806  |
|       | Kurtosis        | -0.431 | -0.667 | 0.571    | 7.214    | 8.671     | 0.946   | 10.000 | 10.000  | -2.546   | 3.393  | 9.717  | 10.000   | 10.000 | 10.000   | -1.255 |

Notes: concentrations in mg/L, electrical conductivity µS/c

Table 8: Tests for Statistical Normality

| Analyte   | site   | Kolmogorov-Smirnov(a) |    |         | Shapiro-Wilk |    |       |
|-----------|--------|-----------------------|----|---------|--------------|----|-------|
|           |        | Statistic             | df | Sig.    | Statistic    | df | Sig.  |
| pH        | BH01   | .126                  | 46 | .063    | .947         | 46 | .035  |
|           | BH02   | .304                  | 49 | .0005   | .613         | 49 | .0005 |
|           | BH03   | .118                  | 43 | .148    | .963         | 43 | .171  |
|           | BH05   | .184                  | 21 | .061    | .882         | 21 | .016  |
|           | BH07   | .126                  | 46 | .064    | .957         | 46 | .085  |
|           | BH08   | .154                  | 10 | .200(*) | .954         | 10 | .712  |
|           | BH09   | .281                  | 10 | .025    | .823         | 10 | .028  |
|           | BH10   | .302                  | 10 | .010    | .730         | 10 | .002  |
|           | BH11   | .183                  | 10 | .200(*) | .952         | 10 | .693  |
|           | BH12   | .190                  | 10 | .200(*) | .951         | 10 | .676  |
|           | GBMB01 | .205                  | 34 | .001    | .879         | 34 | .001  |
|           | GBMB03 | .161                  | 40 | .010    | .877         | 40 | .0005 |
|           | GBMB06 | .145                  | 42 | .026    | .932         | 42 | .016  |
| EC        | SY01   | .249                  | 10 | .079    | .829         | 10 | .032  |
|           | BH01   | .239                  | 46 | .0005   | .691         | 46 | .0005 |
|           | BH02   | .134                  | 49 | .029    | .952         | 49 | .044  |
|           | BH03   | .212                  | 43 | .0005   | .739         | 43 | .0005 |
|           | BH05   | .244                  | 21 | .002    | .864         | 21 | .007  |
|           | BH07   | .143                  | 46 | .019    | .945         | 46 | .029  |
|           | BH08   | .237                  | 10 | .117    | .856         | 10 | .069  |
|           | BH09   | .227                  | 10 | .156    | .870         | 10 | .101  |
|           | BH10   | .285                  | 10 | .020    | .806         | 10 | .017  |
|           | BH11   | .345                  | 10 | .001    | .794         | 10 | .012  |
|           | BH12   | .134                  | 10 | .200(*) | .927         | 10 | .424  |
|           | GBMB01 | .354                  | 34 | .0005   | .488         | 34 | .0005 |
|           | GBMB03 | .434                  | 40 | .0005   | .221         | 40 | .0005 |
| Sulphate  | GBMB06 | .303                  | 42 | .0005   | .578         | 42 | .0005 |
|           | SY01   | .156                  | 10 | .200(*) | .940         | 10 | .556  |
|           | BH01   | .305                  | 46 | .0005   | .480         | 46 | .0005 |
|           | BH02   | .150                  | 48 | .009    | .899         | 48 | .001  |
|           | BH03   | .242                  | 43 | .0005   | .624         | 43 | .0005 |
|           | BH05   | .150                  | 21 | .200(*) | .938         | 21 | .201  |
|           | BH07   | .134                  | 46 | .038    | .909         | 46 | .002  |
|           | BH08   | .209                  | 10 | .200(*) | .850         | 10 | .059  |
|           | BH09   | .433                  | 10 | .0005   | .594         | 10 | .0005 |
|           | BH10   | .326                  | 10 | .003    | .702         | 10 | .001  |
|           | BH11   | .131                  | 10 | .200(*) | .985         | 10 | .988  |
|           | BH12   | .173                  | 10 | .200(*) | .912         | 10 | .293  |
|           | GBMB01 | .126                  | 33 | .200(*) | .950         | 33 | .135  |
| Fluoride  | GBMB03 | .233                  | 39 | .0005   | .830         | 39 | .0005 |
|           | GBMB06 | .294                  | 42 | .0005   | .727         | 42 | .0005 |
|           | SY01   | .360                  | 10 | .001    | .731         | 10 | .002  |
|           | BH01   | .147                  | 8  | .200(*) | .982         | 8  | .970  |
|           | BH02   | .193                  | 11 | .200(*) | .872         | 11 | .083  |
|           | BH03   | .174                  | 11 | .200(*) | .916         | 11 | .288  |
|           | BH05   | .261                  | 11 | .035    | .894         | 11 | .154  |
|           | BH07   | .242                  | 11 | .072    | .783         | 11 | .006  |
|           | BH08   | .159                  | 10 | .200(*) | .911         | 10 | .290  |
|           | BH09   | .467                  | 10 | .0005   | .574         | 10 | .0005 |
|           | BH10   | .238                  | 10 | .113    | .836         | 10 | .039  |
|           | BH11   | .199                  | 10 | .200(*) | .899         | 10 | .212  |
|           | BH12   | .201                  | 10 | .200(*) | .937         | 10 | .518  |
| Aluminium | GBMB01 | .172                  | 9  | .200(*) | .937         | 9  | .550  |
|           | GBMB03 | .500                  | 9  | .0005   | .467         | 9  | .0005 |
|           | GBMB06 | .302                  | 9  | .017    | .737         | 9  | .004  |
|           | SY01   | .467                  | 10 | .0005   | .574         | 10 | .0005 |
|           | BH01   | .411                  | 19 | .0005   | .563         | 19 | .0005 |
|           | BH02   | .152                  | 22 | .200(*) | .970         | 22 | .720  |
|           | BH03   | .363                  | 18 | .0005   | .596         | 18 | .0005 |
|           | BH05   | .360                  | 21 | .0005   | .504         | 21 | .0005 |
|           | BH07   | .311                  | 21 | .0005   | .540         | 21 | .0005 |
|           | BH08   | .336                  | 10 | .002    | .784         | 10 | .009  |
|           | BH09   | .356                  | 10 | .001    | .532         | 10 | .0005 |
|           | BH10   | .382                  | 10 | .0005   | .571         | 10 | .0005 |
|           | BH11   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|           | BH12   | .472                  | 10 | .0005   | .532         | 10 | .0005 |
|           | GBMB01 | .391                  | 17 | .0005   | .578         | 17 | .0005 |
|           | GBMB03 | .358                  | 17 | .0005   | .595         | 17 | .0005 |
|           | GBMB06 | .443                  | 19 | .0005   | .307         | 19 | .0005 |
|           | SY01   | .387                  | 10 | .0005   | .555         | 10 | .0005 |

| Analyte             | site   | Kolmogorov-Smirnov(a) |    |         | Shapiro-Wilk |    |       |
|---------------------|--------|-----------------------|----|---------|--------------|----|-------|
|                     |        | Statistic             | df | Sig.    | Statistic    | df | Sig.  |
| Arsenic             | BH01   | .155                  | 20 | .200(*) | .901         | 20 | .042  |
|                     | BH02   | .500                  | 23 | .0005   | .291         | 23 | .0005 |
|                     | BH03   | .275                  | 21 | .0005   | .746         | 21 | .0005 |
|                     | BH05   | .424                  | 21 | .0005   | .537         | 21 | .0005 |
|                     | BH07   | .313                  | 21 | .0005   | .628         | 21 | .0005 |
|                     | BH08   | .146                  | 10 | .200(*) | .925         | 10 | .402  |
|                     | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH10   | .272                  | 10 | .035    | .839         | 10 | .042  |
|                     | BH11   | .248                  | 10 | .081    | .919         | 10 | .346  |
|                     | BH12   | .270                  | 10 | .037    | .801         | 10 | .015  |
|                     | GBMB01 | .140                  | 34 | .090    | .942         | 34 | .071  |
|                     | GBMB03 | .130                  | 40 | .089    | .910         | 40 | .004  |
|                     | GBMB06 | .365                  | 42 | .0005   | .554         | 42 | .0005 |
| Boron               | SY01   | .281                  | 10 | .025    | .791         | 10 | .011  |
|                     | BH01   | .504                  | 7  | .0005   | .453         | 7  | .0005 |
|                     | BH02   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH03   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH05   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH07   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH08   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH10   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH11   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH12   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | GBMB01 | .519                  | 9  | .0005   | .390         | 9  | .0005 |
|                     | GBMB03 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
|                     | GBMB06 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
| Cadmium             | SY01   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH01   | .492                  | 20 | .0005   | .250         | 20 | .0005 |
|                     | BH02   | .363                  | 23 | .0005   | .499         | 23 | .0005 |
|                     | BH03   | .459                  | 21 | .0005   | .458         | 21 | .0005 |
|                     | BH05   | .308                  | 21 | .0005   | .595         | 21 | .0005 |
|                     | BH07   | .217                  | 24 | .005    | .854         | 24 | .003  |
|                     | BH08   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH10   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH11   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH12   | .444                  | 10 | .0005   | .439         | 10 | .0005 |
|                     | GBMB01 | .293                  | 34 | .0005   | .737         | 34 | .0005 |
|                     | GBMB03 | .392                  | 40 | .0005   | .423         | 40 | .0005 |
|                     | GBMB06 | .446                  | 43 | .0005   | .174         | 43 | .0005 |
| Hexavalent Chromium | SY01   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH01   | .435                  | 7  | .0005   | .600         | 7  | .0005 |
|                     | BH02   | .328                  | 10 | .003    | .678         | 10 | .0005 |
|                     | BH03   | .328                  | 10 | .003    | .678         | 10 | .0005 |
|                     | BH05   | .319                  | 10 | .005    | .749         | 10 | .003  |
|                     | BH07   | .320                  | 10 | .005    | .734         | 10 | .002  |
|                     | BH08   | .328                  | 10 | .003    | .678         | 10 | .0005 |
|                     | BH09   | .328                  | 10 | .003    | .678         | 10 | .0005 |
|                     | BH10   | .242                  | 10 | .100    | .847         | 10 | .054  |
|                     | BH11   | .328                  | 10 | .003    | .678         | 10 | .0005 |
|                     | BH12   | .327                  | 10 | .003    | .696         | 10 | .001  |
|                     | GBMB01 | .356                  | 9  | .002    | .655         | 9  | .0005 |
|                     | GBMB03 | .333                  | 8  | .009    | .675         | 8  | .001  |
|                     | GBMB06 | .290                  | 8  | .047    | .702         | 8  | .002  |
| Cobalt              | SY01   | .328                  | 10 | .003    | .678         | 10 | .0005 |
|                     | BH01   | .351                  | 15 | .0005   | .664         | 15 | .0005 |
|                     | BH02   | .219                  | 19 | .017    | .822         | 19 | .002  |
|                     | BH03   | .311                  | 17 | .0005   | .660         | 17 | .0005 |
|                     | BH05   | .334                  | 18 | .0005   | .642         | 18 | .0005 |
|                     | BH07   | .216                  | 18 | .026    | .817         | 18 | .003  |
|                     | BH08   | .382                  | 10 | .0005   | .559         | 10 | .0005 |
|                     | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                     | BH10   | .248                  | 10 | .082    | .870         | 10 | .099  |
|                     | BH11   | .381                  | 10 | .0005   | .566         | 10 | .0005 |
|                     | BH12   | .430                  | 10 | .0005   | .642         | 10 | .0005 |
|                     | GBMB01 | .342                  | 16 | .0005   | .637         | 16 | .0005 |
|                     | GBMB03 | .322                  | 16 | .0005   | .669         | 16 | .0005 |
|                     | GBMB06 | .322                  | 16 | .0005   | .669         | 16 | .0005 |
|                     | SY01   | .269                  | 10 | .039    | .744         | 10 | .003  |

Croydon Gold Mine

| Analyte        | site   | Kolmogorov-Smirnov(a) |    |         | Shapiro-Wilk |    |       |
|----------------|--------|-----------------------|----|---------|--------------|----|-------|
|                |        | Statistic             | df | Sig.    | Statistic    | df | Sig.  |
| Copper         | BH01   | .374                  | 20 | .0005   | .547         | 20 | .0005 |
|                | BH02   | .262                  | 23 | .0005   | .736         | 23 | .0005 |
|                | BH03   | .259                  | 21 | .001    | .737         | 21 | .0005 |
|                | BH05   | .320                  | 21 | .0005   | .627         | 21 | .0005 |
|                | BH07   | .275                  | 24 | .0005   | .737         | 24 | .0005 |
|                | BH08   | .304                  | 10 | .009    | .774         | 10 | .007  |
|                | BH09   | .288                  | 10 | .018    | .624         | 10 | .0005 |
|                | BH10   | .268                  | 10 | .040    | .871         | 10 | .102  |
|                | BH11   | .351                  | 10 | .001    | .577         | 10 | .0005 |
|                | BH12   | .309                  | 10 | .008    | .567         | 10 | .0005 |
|                | GBMB01 | .341                  | 31 | .0005   | .606         | 31 | .0005 |
|                | GBMB03 | .368                  | 40 | .0005   | .715         | 40 | .0005 |
|                | GBMB06 | .344                  | 43 | .0005   | .719         | 43 | .0005 |
| Mercury        | SY01   | .420                  | 10 | .0005   | .436         | 10 | .0005 |
|                | BH01   | .504                  | 7  | .0005   | .453         | 7  | .0005 |
|                | BH02   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH03   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH05   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH07   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH08   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH10   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH11   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH12   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | GBMB01 | .519                  | 9  | .0005   | .390         | 9  | .0005 |
|                | GBMB03 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
|                | GBMB06 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
| Nickel         | SY01   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH01   | .326                  | 20 | .0005   | .658         | 20 | .0005 |
|                | BH02   | .232                  | 23 | .002    | .795         | 23 | .0005 |
|                | BH03   | .413                  | 18 | .0005   | .588         | 18 | .0005 |
|                | BH05   | .354                  | 21 | .0005   | .641         | 21 | .0005 |
|                | BH07   | .248                  | 21 | .002    | .889         | 21 | .021  |
|                | BH08   | .245                  | 10 | .090    | .892         | 10 | .177  |
|                | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH10   | .172                  | 10 | .200(*) | .941         | 10 | .569  |
|                | BH11   | .300                  | 10 | .011    | .773         | 10 | .007  |
|                | BH12   | .412                  | 10 | .0005   | .647         | 10 | .0005 |
|                | GBMB01 | .347                  | 17 | .0005   | .658         | 17 | .0005 |
|                | GBMB03 | .377                  | 17 | .0005   | .652         | 17 | .0005 |
|                | GBMB06 | .312                  | 20 | .0005   | .672         | 20 | .0005 |
| Selenium (b,c) | SY01   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH01   | .504                  | 7  | .0005   | .453         | 7  | .0005 |
|                | BH02   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH03   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH08   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH10   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH11   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | BH12   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|                | GBMB01 | .519                  | 9  | .0005   | .390         | 9  | .0005 |
|                | GBMB03 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
|                | GBMB06 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
|                | SY01   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
| Zinc           | BH01   | .206                  | 20 | .026    | .750         | 20 | .0005 |
|                | BH02   | .197                  | 23 | .021    | .832         | 23 | .001  |
|                | BH03   | .494                  | 21 | .0005   | .251         | 21 | .0005 |
|                | BH05   | .267                  | 21 | .0005   | .678         | 21 | .0005 |
|                | BH07   | .226                  | 24 | .003    | .824         | 24 | .001  |
|                | BH08   | .144                  | 10 | .200(*) | .972         | 10 | .905  |
|                | BH09   | .169                  | 10 | .200(*) | .907         | 10 | .260  |
|                | BH10   | .182                  | 10 | .200(*) | .856         | 10 | .068  |
|                | BH11   | .239                  | 10 | .110    | .779         | 10 | .008  |
|                | BH12   | .177                  | 10 | .200(*) | .911         | 10 | .290  |
|                | GBMB01 | .287                  | 34 | .0005   | .632         | 34 | .0005 |
|                | GBMB03 | .191                  | 40 | .001    | .654         | 40 | .0005 |
|                | GBMB06 | .290                  | 38 | .0005   | .626         | 38 | .0005 |
|                | SY01   | .246                  | 10 | .089    | .816         | 10 | .023  |

| Analyte  | site   | Kolmogorov-Smirnov(a) |    |         | Shapiro-Wilk |    |       |
|----------|--------|-----------------------|----|---------|--------------|----|-------|
|          |        | Statistic             | df | Sig.    | Statistic    | df | Sig.  |
| Mercury  | BH01   | .504                  | 7  | .0005   | .453         | 7  | .0005 |
|          | BH02   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH03   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH05   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH07   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH08   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH10   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH11   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH12   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | GBMB01 | .519                  | 9  | .0005   | .390         | 9  | .0005 |
|          | GBMB03 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
|          | GBMB06 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
| Nickel   | SY01   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH01   | .326                  | 20 | .0005   | .658         | 20 | .0005 |
|          | BH02   | .232                  | 23 | .002    | .795         | 23 | .0005 |
|          | BH03   | .413                  | 18 | .0005   | .588         | 18 | .0005 |
|          | BH05   | .354                  | 21 | .0005   | .641         | 21 | .0005 |
|          | BH07   | .248                  | 21 | .002    | .889         | 21 | .021  |
|          | BH08   | .245                  | 10 | .090    | .892         | 10 | .177  |
|          | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH10   | .172                  | 10 | .200(*) | .941         | 10 | .569  |
|          | BH11   | .300                  | 10 | .011    | .773         | 10 | .007  |
|          | BH12   | .412                  | 10 | .0005   | .647         | 10 | .0005 |
|          | GBMB01 | .347                  | 17 | .0005   | .658         | 17 | .0005 |
|          | GBMB03 | .377                  | 17 | .0005   | .652         | 17 | .0005 |
|          | GBMB06 | .312                  | 20 | .0005   | .672         | 20 | .0005 |
| Selenium | SY01   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH01   | .504                  | 7  | .0005   | .453         | 7  | .0005 |
|          | BH02   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH03   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH08   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH09   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH10   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH11   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | BH12   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
|          | GBMB01 | .519                  | 9  | .0005   | .390         | 9  | .0005 |
|          | GBMB03 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
|          | GBMB06 | .513                  | 8  | .0005   | .418         | 8  | .0005 |
|          | SY01   | .524                  | 10 | .0005   | .366         | 10 | .0005 |
| Zinc     | BH01   | .206                  | 20 | .026    | .750         | 20 | .0005 |
|          | BH02   | .197                  | 23 | .021    | .832         | 23 | .001  |
|          | BH03   | .494                  | 21 | .0005   | .251         | 21 | .0005 |
|          | BH05   | .267                  | 21 | .0005   | .678         | 21 | .0005 |
|          | BH07   | .226                  | 24 | .003    | .824         | 24 | .001  |
|          | BH08   | .144                  | 10 | .200(*) | .972         | 10 | .905  |
|          | BH09   | .169                  | 10 | .200(*) | .907         | 10 | .260  |
|          | BH10   | .182                  | 10 | .200(*) | .856         | 10 | .068  |
|          | BH11   | .239                  | 10 | .110    | .779         | 10 | .008  |
|          | BH12   | .177                  | 10 | .200(*) | .911         | 10 | .290  |
|          | GBMB01 | .287                  | 34 | .0005   | .632         | 34 | .0005 |
|          | GBMB03 | .191                  | 40 | .001    | .654         | 40 | .0005 |
|          | GBMB06 | .290                  | 38 | .0005   | .626         | 38 | .0005 |
|          | SY01   | .246                  | 10 | .089    | .816         | 10 | .023  |

## Notes

\* This is a lower bound of the true significance.

a Lilliefors Significance Correction

b Selenium is constant when site = BH05 . It has been omitted.

c Selenium is constant when site = BH07 . It has been omitted.



Sig. value < 0.05; reject Ho there is no difference between the distribution of the data set and a normal distribution  
Shapiro-Wilk test more reliable when n<50

Table 9: Calculated Percentiles for Metal Analyte Concentration versus Site

| Analyte              | Site   | Percentiles |         |         |         |         |        |        |
|----------------------|--------|-------------|---------|---------|---------|---------|--------|--------|
|                      |        | 5           | 10      | 25      | 50      | 75      | 90     | 95     |
| Aluminium<br>(0.055) | BH01   | 0.010       | 0.010   | 0.020   | 0.050   | 0.050   | 0.090  |        |
|                      | BH02   | 0.184       | 0.350   | 0.863   | 1.230   | 1.825   | 2.510  | 2.685  |
|                      | BH03   | 0.030       | 0.066   | 0.110   | 0.270   | 0.438   | 2.194  |        |
|                      | BH05   | 0.010       | 0.010   | 0.010   | 0.050   | 0.050   | 0.060  | 0.267  |
|                      | BH07   | 0.010       | 0.012   | 0.020   | 0.025   | 0.035   | 0.050  | 0.149  |
|                      | BH08   | 0.020       | 0.020   | 0.028   | 0.035   | 0.050   | 0.091  |        |
|                      | BH09   | 0.020       | 0.020   | 0.020   | 0.035   | 0.055   | 0.268  |        |
|                      | BH10   | 0.010       | 0.010   | 0.010   | 0.010   | 0.028   | 0.095  |        |
|                      | BH11   | 0.010       | 0.010   | 0.010   | 0.010   | 0.010   | 0.046  |        |
|                      | BH12   | 0.010       | 0.010   | 0.010   | 0.010   | 0.015   | 0.048  |        |
|                      | GBMB01 | 0.010       | 0.010   | 0.010   | 0.025   | 0.025   | 0.102  |        |
|                      | GBMB03 | 0.050       | 0.066   | 0.095   | 0.210   | 0.670   | 3.968  |        |
|                      | GBMB06 | 0.010       | 0.010   | 0.010   | 0.025   | 0.025   | 0.060  |        |
|                      | SY01   | 0.010       | 0.010   | 0.010   | 0.030   | 0.060   | 0.285  |        |
| Arsenic<br>(0.013)   | BH01   | 0.010       | 0.010   | 0.012   | 0.014   | 0.015   | 0.017  | 0.022  |
|                      | BH02   | 0.001       | 0.001   | 0.001   | 0.005   | 0.005   | 0.005  | 0.073  |
|                      | BH03   | 0.001       | 0.002   | 0.005   | 0.008   | 0.011   | 0.030  | 0.031  |
|                      | BH05   | 0.004       | 0.004   | 0.005   | 0.006   | 0.008   | 0.050  | 0.050  |
|                      | BH07   | 0.004       | 0.004   | 0.005   | 0.005   | 0.012   | 0.025  | 0.047  |
|                      | BH08   | 0.002       | 0.002   | 0.003   | 0.009   | 0.017   | 0.022  |        |
|                      | BH09   | 0.001       | 0.001   | 0.001   | 0.001   | 0.001   | 0.003  |        |
|                      | BH10   | 0.001       | 0.001   | 0.002   | 0.004   | 0.012   | 0.019  |        |
|                      | BH11   | 0.025       | 0.026   | 0.039   | 0.056   | 0.063   | 0.069  |        |
|                      | BH12   | 0.015       | 0.015   | 0.017   | 0.019   | 0.028   | 0.043  |        |
|                      | GBMB01 | 0.002       | 0.004   | 0.007   | 0.013   | 0.023   | 0.029  | 0.035  |
|                      | GBMB03 | 0.003       | 0.003   | 0.004   | 0.008   | 0.013   | 0.018  | 0.021  |
|                      | GBMB06 | 0.003       | 0.003   | 0.003   | 0.005   | 0.011   | 0.085  | 0.096  |
|                      | SY01   | 0.001       | 0.001   | 0.001   | 0.002   | 0.002   | 0.004  |        |
| Cadmium<br>(0.0002)  | BH01   | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0002 | 0.0024 |
|                      | BH02   | 0.0001      | 0.0001  | 0.0002  | 0.0005  | 0.0007  | 0.0020 | 0.0058 |
|                      | BH03   | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0008 | 0.0017 |
|                      | BH05   | 0.0001      | 0.0001  | 0.0001  | 0.0002  | 0.0005  | 0.0008 | 0.0021 |
|                      | BH07   | 0.0001      | 0.0001  | 0.0002  | 0.0006  | 0.0014  | 0.0020 | 0.0029 |
|                      | BH08   | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0015 |        |
|                      | BH09   | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0022 |        |
|                      | BH10   | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0003 |        |
|                      | BH11   | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0031 |        |
|                      | BH12   | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0002  | 0.0018 |        |
|                      | GBMB01 | 0.0001      | 0.0001  | 0.0001  | 0.0005  | 0.0039  | 0.0059 | 0.0075 |
|                      | GBMB03 | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0003  | 0.0007 | 0.0016 |
|                      | GBMB06 | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0003  | 0.0011 | 0.0026 |
|                      | SY01   | 0.0001      | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0035 |        |
| Cobalt<br>(0.0014)   | BH01   | 0.001       | 0.001   | 0.001   | 0.005   | 0.05    | 0.05   |        |
|                      | BH02   | 0.016       | 0.016   | 0.018   | 0.034   | 0.05    | 0.05   |        |
|                      | BH03   | 0.001       | 0.001   | 0.001   | 0.0025  | 0.025   | 0.025  |        |
|                      | BH05   | 0.001       | 0.001   | 0.001   | 0.0255  | 0.05    | 0.05   |        |
|                      | BH07   | 0.001       | 0.00235 | 0.005   | 0.0145  | 0.025   | 0.0394 |        |
|                      | BH08   | 0.001       | 0.001   | 0.001   | 0.001   | 0.002   | 0.0047 |        |
|                      | BH09   | 0.001       | 0.001   | 0.001   | 0.001   | 0.001   | 0.0046 |        |
|                      | BH10   | 0.001       | 0.0012  | 0.00375 | 0.006   | 0.01925 | 0.0263 |        |
|                      | BH11   | 0.001       | 0.001   | 0.001   | 0.001   | 0.0035  | 0.0122 |        |
|                      | BH12   | 0.001       | 0.001   | 0.001   | 0.001   | 0.004   | 0.0049 |        |
|                      | GBMB01 | 0.001       | 0.001   | 0.001   | 0.00175 | 0.025   | 0.025  |        |
|                      | GBMB03 | 0.001       | 0.001   | 0.00125 | 0.0025  | 0.025   | 0.025  |        |
|                      | GBMB06 | 0.001       | 0.001   | 0.00125 | 0.0025  | 0.025   | 0.025  |        |
|                      | SY01   | 0.001       | 0.001   | 0.001   | 0.0015  | 0.00225 | 0.0048 |        |
| Copper<br>(0.0014)   | BH01   | 0.001       | 0.001   | 0.001   | 0.007   | 0.010   | 0.010  | 0.048  |
|                      | BH02   | 0.002       | 0.002   | 0.005   | 0.010   | 0.015   | 0.021  | 0.044  |
|                      | BH03   | 0.001       | 0.001   | 0.003   | 0.004   | 0.010   | 0.025  | 0.025  |
|                      | BH05   | 0.001       | 0.001   | 0.001   | 0.004   | 0.005   | 0.010  | 0.028  |
|                      | BH07   | 0.001       | 0.001   | 0.004   | 0.005   | 0.012   | 0.028  | 0.046  |
|                      | BH08   | 0.001       | 0.001   | 0.001   | 0.002   | 0.006   | 0.010  |        |
|                      | BH09   | 0.001       | 0.001   | 0.001   | 0.002   | 0.003   | 0.011  |        |
|                      | BH10   | 0.001       | 0.001   | 0.002   | 0.004   | 0.008   | 0.012  |        |
|                      | BH11   | 0.001       | 0.001   | 0.002   | 0.002   | 0.005   | 0.019  |        |
|                      | BH12   | 0.001       | 0.001   | 0.001   | 0.002   | 0.003   | 0.013  |        |
|                      | GBMB01 | 0.001       | 0.001   | 0.002   | 0.010   | 0.025   | 0.045  | 0.108  |
|                      | GBMB03 | 0.001       | 0.001   | 0.004   | 0.025   | 0.025   | 0.025  | 0.025  |
|                      | GBMB06 | 0.001       | 0.001   | 0.005   | 0.025   | 0.025   | 0.025  | 0.025  |
|                      | SY01   | 0.001       | 0.001   | 0.001   | 0.002   | 0.003   | 0.037  |        |

| Analyte           | Site   | Percentiles |       |       |       |       |       |       |
|-------------------|--------|-------------|-------|-------|-------|-------|-------|-------|
|                   |        | 5           | 10    | 25    | 50    | 75    | 90    | 95    |
| Nickel<br>(0.011) | BH01   | 0.001       | 0.001 | 0.001 | 0.004 | 0.050 | 0.050 | 0.050 |
|                   | BH02   | 0.025       | 0.026 | 0.029 | 0.050 | 0.060 | 0.088 | 0.135 |
|                   | BH03   | 0.001       | 0.001 | 0.001 | 0.002 | 0.050 | 0.050 | .     |
|                   | BH05   | 0.001       | 0.001 | 0.001 | 0.002 | 0.050 | 0.050 | 0.050 |
|                   | BH07   | 0.002       | 0.004 | 0.013 | 0.020 | 0.025 | 0.026 | 0.031 |
|                   | BH08   | 0.001       | 0.001 | 0.002 | 0.002 | 0.003 | 0.004 | .     |
|                   | BH09   | 0.001       | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | .     |
|                   | BH10   | 0.005       | 0.005 | 0.006 | 0.008 | 0.008 | 0.011 | .     |
|                   | BH11   | 0.001       | 0.001 | 0.001 | 0.002 | 0.002 | 0.005 | .     |
|                   | BH12   | 0.001       | 0.001 | 0.001 | 0.001 | 0.002 | 0.004 | .     |
|                   | GBMB01 | 0.001       | 0.001 | 0.001 | 0.002 | 0.025 | 0.025 | .     |
|                   | GBMB03 | 0.001       | 0.001 | 0.001 | 0.003 | 0.025 | 0.025 | .     |
|                   | GBMB06 | 0.001       | 0.001 | 0.002 | 0.003 | 0.025 | 0.025 | 0.025 |
|                   | SY01   | 0.001       | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | .     |
| Zinc<br>(0.008)   | BH01   | 0.010       | 0.011 | 0.023 | 0.035 | 0.055 | 0.086 | 0.175 |
|                   | BH02   | 0.065       | 0.160 | 0.193 | 0.340 | 0.390 | 0.596 | 0.979 |
|                   | BH03   | 0.005       | 0.005 | 0.005 | 0.012 | 0.032 | 0.082 | 2.619 |
|                   | BH05   | 0.003       | 0.003 | 0.010 | 0.012 | 0.018 | 0.030 | 0.062 |
|                   | BH07   | 0.014       | 0.027 | 0.036 | 0.053 | 0.095 | 0.155 | 0.221 |
|                   | BH08   | 0.014       | 0.015 | 0.026 | 0.040 | 0.048 | 0.067 | .     |
|                   | BH09   | 0.005       | 0.005 | 0.009 | 0.022 | 0.034 | 0.042 | .     |
|                   | BH10   | 0.005       | 0.005 | 0.007 | 0.021 | 0.037 | 0.075 | .     |
|                   | BH11   | 0.005       | 0.005 | 0.008 | 0.014 | 0.042 | 0.043 | .     |
|                   | BH12   | 0.005       | 0.005 | 0.005 | 0.016 | 0.023 | 0.030 | .     |
|                   | GBMB01 | 0.005       | 0.009 | 0.016 | 0.025 | 0.043 | 0.120 | 0.188 |
|                   | GBMB03 | 0.014       | 0.018 | 0.025 | 0.058 | 0.110 | 0.148 | 0.188 |
|                   | GBMB06 | 0.005       | 0.005 | 0.018 | 0.025 | 0.057 | 0.149 | 0.266 |
|                   | SY01   | 0.006       | 0.006 | 0.009 | 0.013 | 0.035 | 0.040 | .     |

## Notes:

1. Concentrations in mg/L;
2. Parentheses indicate default trigger value concentration;
3. Below detection limit results replaced with the detection limit;
4. Green highlight indicates percentile concentration below the default trigger value

Table 10: Calculated Percentiles for Non-Metal Analyte Concentration versus Site

| Analyte                                   | Site   | Percentiles |        |        |        |        |        |        |
|-------------------------------------------|--------|-------------|--------|--------|--------|--------|--------|--------|
|                                           |        | 5           | 10     | 25     | 50     | 75     | 90     | 95     |
| pH<br>(7-5 to 6.0)                        | BH01   | 6.9         | 6.9    | 7.0    | 7.2    | 7.5    | 7.8    | 7.9    |
|                                           | BH02   | 3.3         | 3.3    | 3.5    | 3.6    | 3.7    | 4.2    | 4.8    |
|                                           | BH03   | 5.6         | 5.8    | 6.0    | 6.6    | 7.0    | 7.2    | 7.6    |
|                                           | BH05   | 7.1         | 7.2    | 7.4    | 7.5    | 7.7    | 7.8    | 8.3    |
|                                           | BH07   | 6.1         | 6.3    | 6.5    | 6.7    | 7.0    | 7.3    | 7.4    |
|                                           | BH08   | 5.3         | 5.3    | 5.8    | 6.3    | 6.7    | 7.5    | .      |
|                                           | BH09   | 5.0         | 5.0    | 5.2    | 5.4    | 5.6    | 6.5    | .      |
|                                           | BH10   | 7.2         | 7.2    | 7.3    | 7.8    | 11.5   | 11.7   | .      |
|                                           | BH11   | 6.9         | 6.9    | 7.1    | 7.5    | 7.6    | 8.1    | .      |
|                                           | BH12   | 7.2         | 7.2    | 7.4    | 7.7    | 7.9    | 8.4    | .      |
|                                           | GBMB01 | 6.3         | 6.4    | 6.6    | 6.7    | 7.2    | 7.7    | 7.8    |
|                                           | GBMB03 | 5.3         | 5.6    | 5.7    | 6.0    | 6.3    | 6.8    | 7.2    |
|                                           | GBMB06 | 5.3         | 5.5    | 5.7    | 5.9    | 6.2    | 6.9    | 7.1    |
|                                           | SY01   | 5.6         | 5.6    | 5.7    | 5.9    | 6.6    | 7.0    | .      |
| Electrical<br>Conductivity<br>(250 uS/cm) | BH01   | 1035        | 1100   | 1200   | 1300   | 1393   | 1420   | 1493   |
|                                           | BH02   | 774         | 820    | 895    | 982    | 1150   | 1200   | 1300   |
|                                           | BH03   | 112         | 146    | 250    | 360    | 800    | 1160   | 1380   |
|                                           | BH05   | 4900        | 4920   | 5270   | 5600   | 5670   | 6578   | 6780   |
|                                           | BH07   | 5088        | 5278   | 6075   | 7100   | 7600   | 8030   | 8230   |
|                                           | BH08   | 110         | 110    | 116    | 124    | 149    | 155    | .      |
|                                           | BH09   | 72          | 74     | 97     | 101    | 109    | 114    | .      |
|                                           | BH10   | 1760        | 1774   | 1960   | 2625   | 2708   | 2748   | .      |
|                                           | BH11   | 331         | 333    | 357    | 425    | 429    | 435    | .      |
|                                           | BH12   | 1380        | 1381   | 1398   | 1510   | 1650   | 1788   | .      |
|                                           | GBMB01 | 330         | 425    | 612    | 710    | 790    | 835    | 1551   |
|                                           | GBMB03 | 39          | 54     | 65     | 82     | 110    | 228    | 797    |
|                                           | GBMB06 | 66          | 75     | 80     | 91     | 123    | 267    | 488    |
|                                           | SY01   | 51          | 51     | 54     | 58     | 65     | 70     | .      |
| Sulfate<br>(N.A)                          | BH01   | 357.0       | 382.8  | 430.0  | 460.0  | 481.3  | 506.7  | 536.5  |
|                                           | BH02   | 288.0       | 319.0  | 354.8  | 393.0  | 497.5  | 552.0  | 611.0  |
|                                           | BH03   | 47.0        | 51.0   | 73.0   | 100.0  | 210.0  | 290.0  | 402.0  |
|                                           | BH05   | 1410.0      | 1520.0 | 1700.0 | 1800.0 | 1935.0 | 2000.0 | 2045.0 |
|                                           | BH07   | 997.0       | 1461.0 | 1597.5 | 1900.0 | 2100.0 | 2300.0 | 2365.0 |
|                                           | BH08   | 8.0         | 8.2    | 10.0   | 12.0   | 15.3   | 23.2   | .      |
|                                           | BH09   | 1.0         | 1.0    | 1.0    | 1.0    | 2.0    | 2.0    | .      |
|                                           | BH10   | 503.0       | 503.2  | 531.3  | 1220.0 | 1265.0 | 1289.0 | .      |
|                                           | BH11   | 45.0        | 45.2   | 48.5   | 50.5   | 52.5   | 55.8   | .      |
|                                           | BH12   | 173.0       | 173.1  | 175.5  | 184.0  | 193.3  | 201.8  | .      |
|                                           | GBMB01 | 50.0        | 72.0   | 126.0  | 180.0  | 220.0  | 240.0  | 253.0  |
|                                           | GBMB03 | 1.0         | 1.0    | 3.0    | 4.0    | 12.0   | 16.0   | 23.0   |
|                                           | GBMB06 | 1.0         | 2.0    | 3.0    | 5.0    | 6.3    | 15.9   | 19.0   |
|                                           | SY01   | 1.0         | 1.0    | 1.0    | 1.0    | 2.0    | 2.9    | .      |
| Fluoride<br>(N.A)                         | BH01   | 3.30        | 3.30   | 3.53   | 3.70   | 3.88   | .      | .      |
|                                           | BH02   | .80         | .82    | 1.10   | 1.20   | 1.40   | 1.40   | .      |
|                                           | BH03   | .30         | .33    | .50    | 2.60   | 3.60   | 4.46   | .      |
|                                           | BH05   | 4.40        | 4.80   | 6.60   | 7.40   | 7.70   | 9.54   | .      |
|                                           | BH07   | 5.90        | 5.96   | 6.30   | 6.90   | 7.40   | 9.50   | .      |
|                                           | BH08   | .10         | .10    | .18    | .50    | .70    | .79    | .      |
|                                           | BH09   | .06         | .06    | .10    | .10    | .10    | .19    | .      |
|                                           | BH10   | .10         | .14    | .63    | 2.35   | 2.93   | 3.18   | .      |
|                                           | BH11   | 2.10        | 2.10   | 2.18   | 2.45   | 2.93   | 3.18   | .      |
|                                           | BH12   | 3.80        | 3.83   | 4.18   | 4.50   | 4.60   | 4.87   | .      |
|                                           | GBMB01 | 1.00        | 1.00   | 1.55   | 1.90   | 2.15   | .      | .      |
|                                           | GBMB03 | .07         | .07    | .10    | .10    | .10    | .      | .      |
|                                           | GBMB06 | .09         | .09    | .10    | .20    | .25    | .      | .      |
|                                           | SY01   | .06         | .06    | .10    | .10    | .10    | .19    | .      |

## Notes:

1. Concentrations in mg/L
2. Parentheses indicate default trigger value concentration
3. Below detection limit results replaced with the detection limit
4. Green highlight indicates percentile concentration below the default trigger value (N.A = not specified)

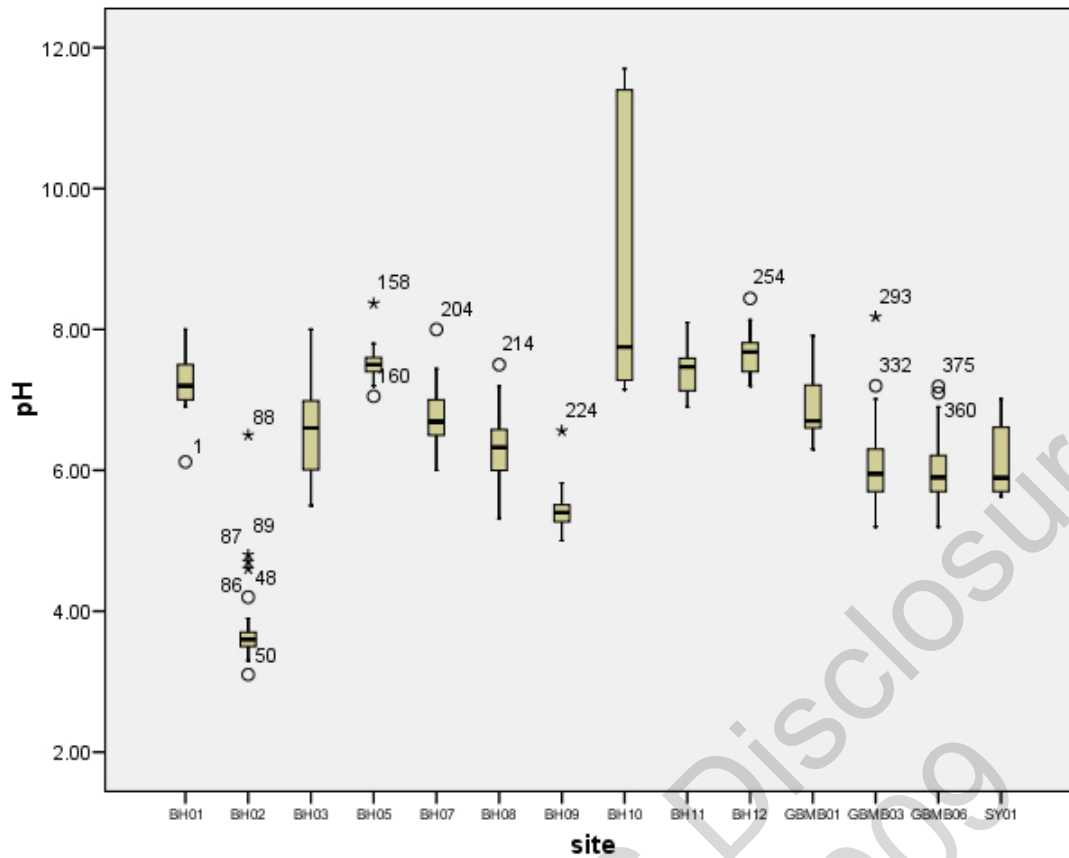


Figure 3: Boxplots – Sample Site versus pH

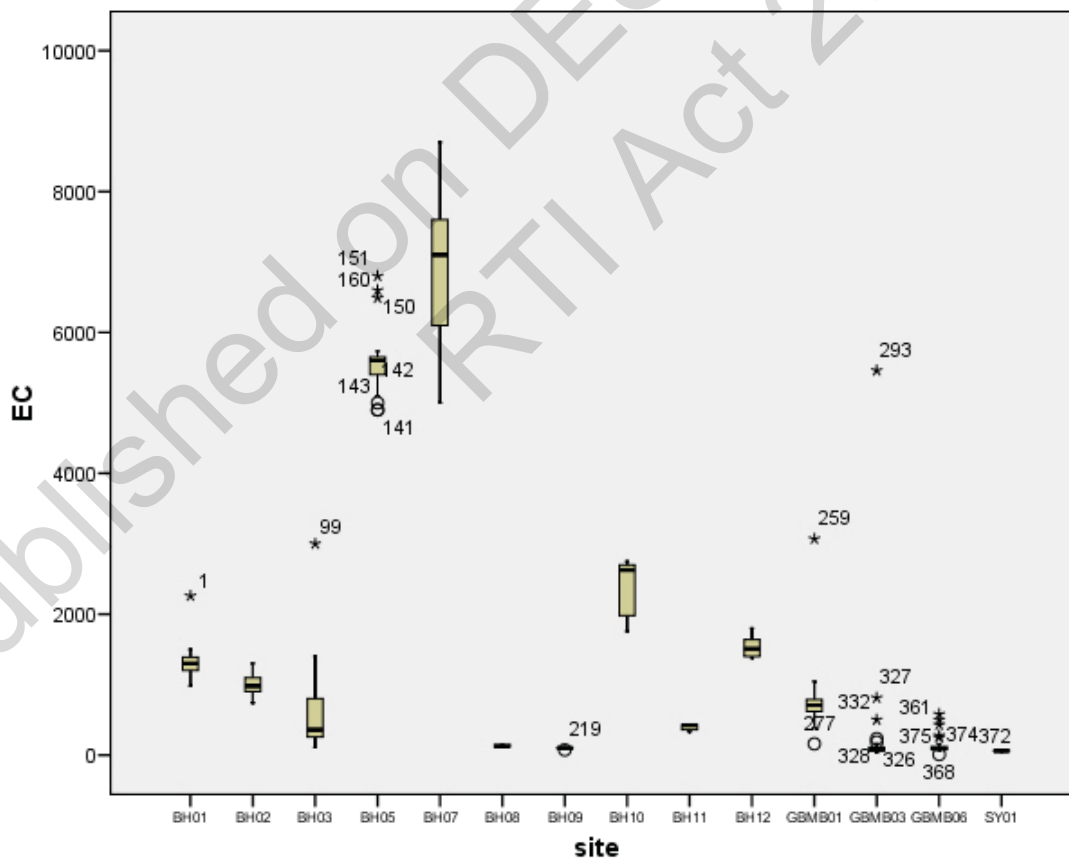


Figure 4: Boxplots – Sample Site versus EC

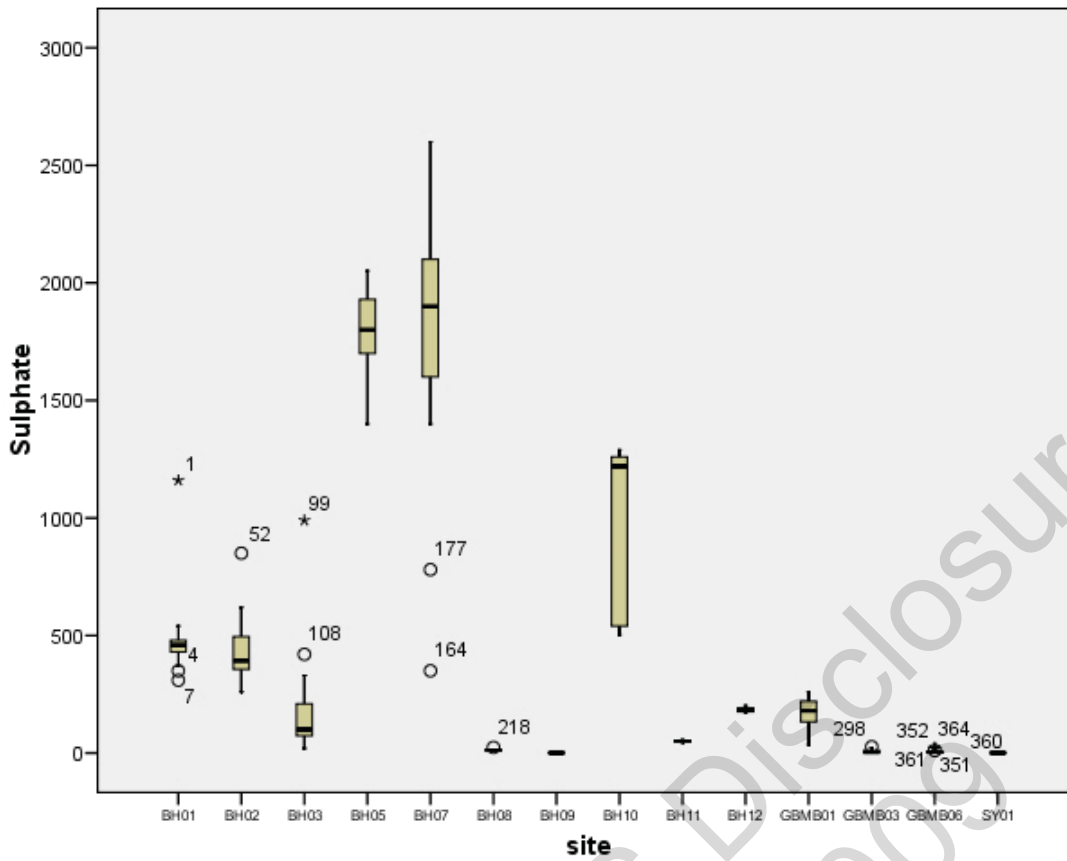


Figure 5: Boxplots – Sample Site versus Sulfate

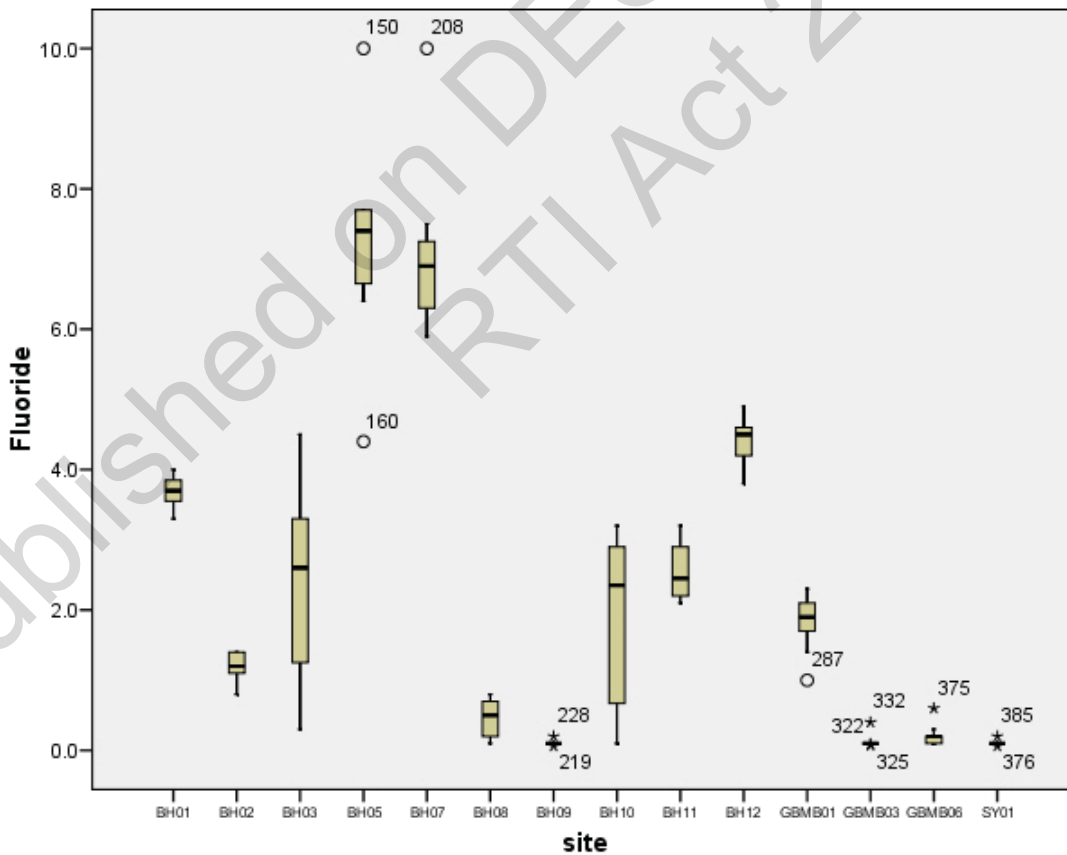


Figure 6: Boxplots – Sample Site versus Fluoride

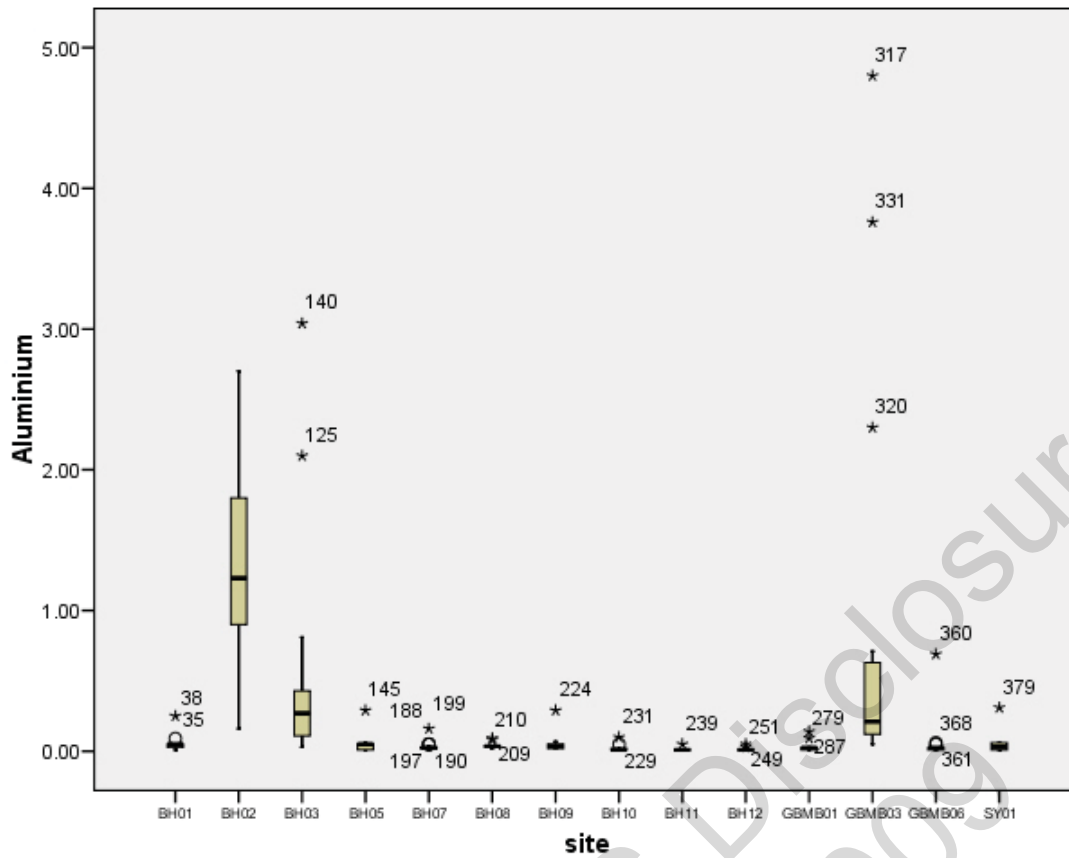


Figure 7: Boxplots – Sample Site versus Aluminium

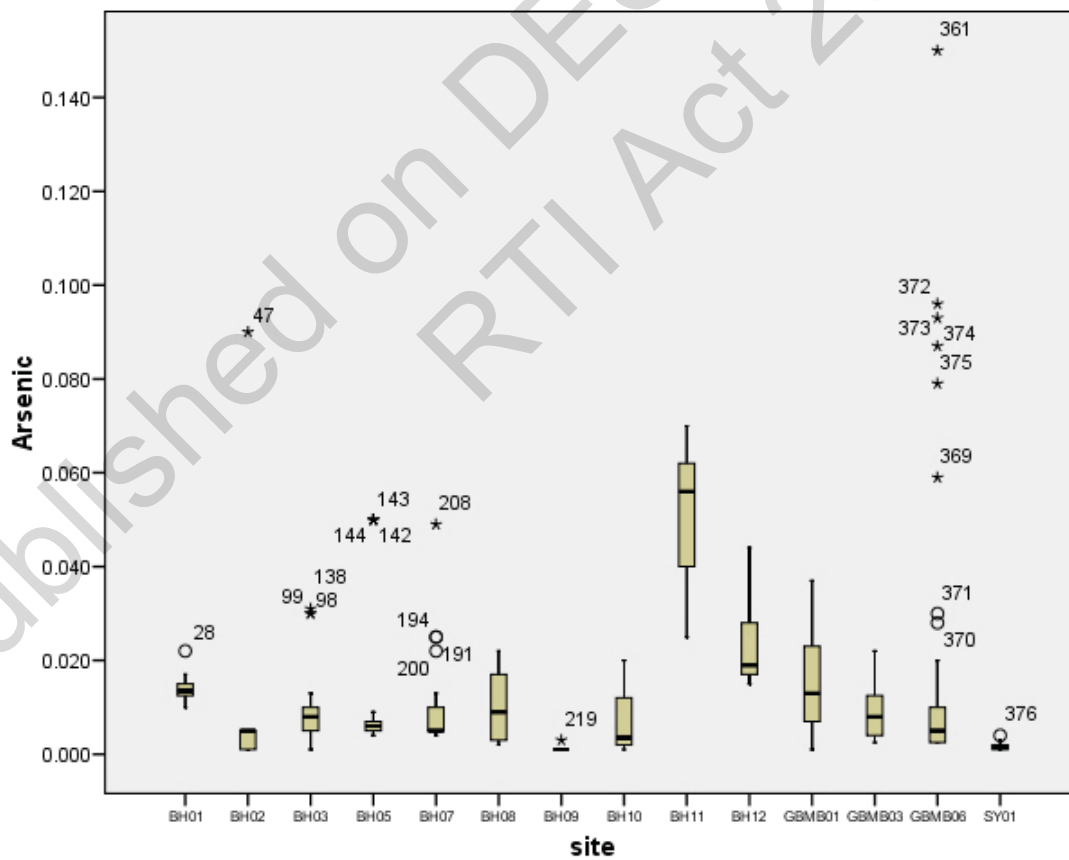


Figure 8: Boxplots – Sample Site versus Arsenic

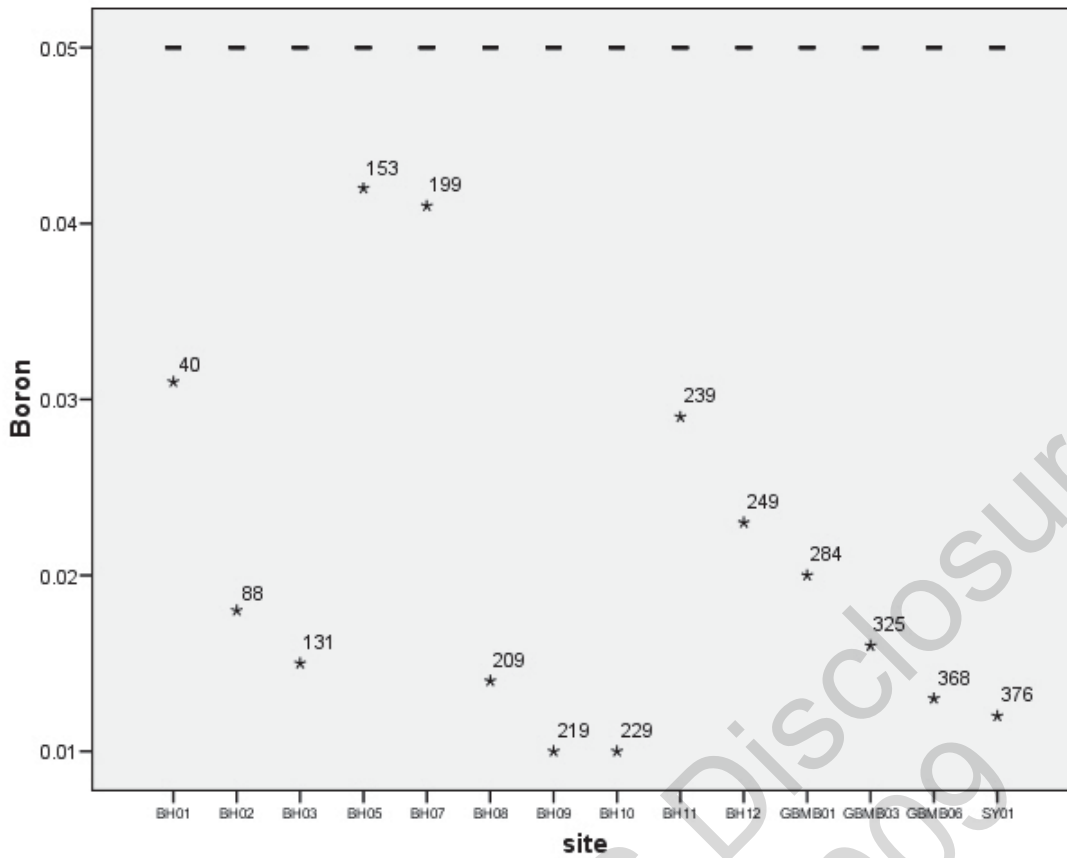


Figure 9: Boxplots – Sample Site versus Boron

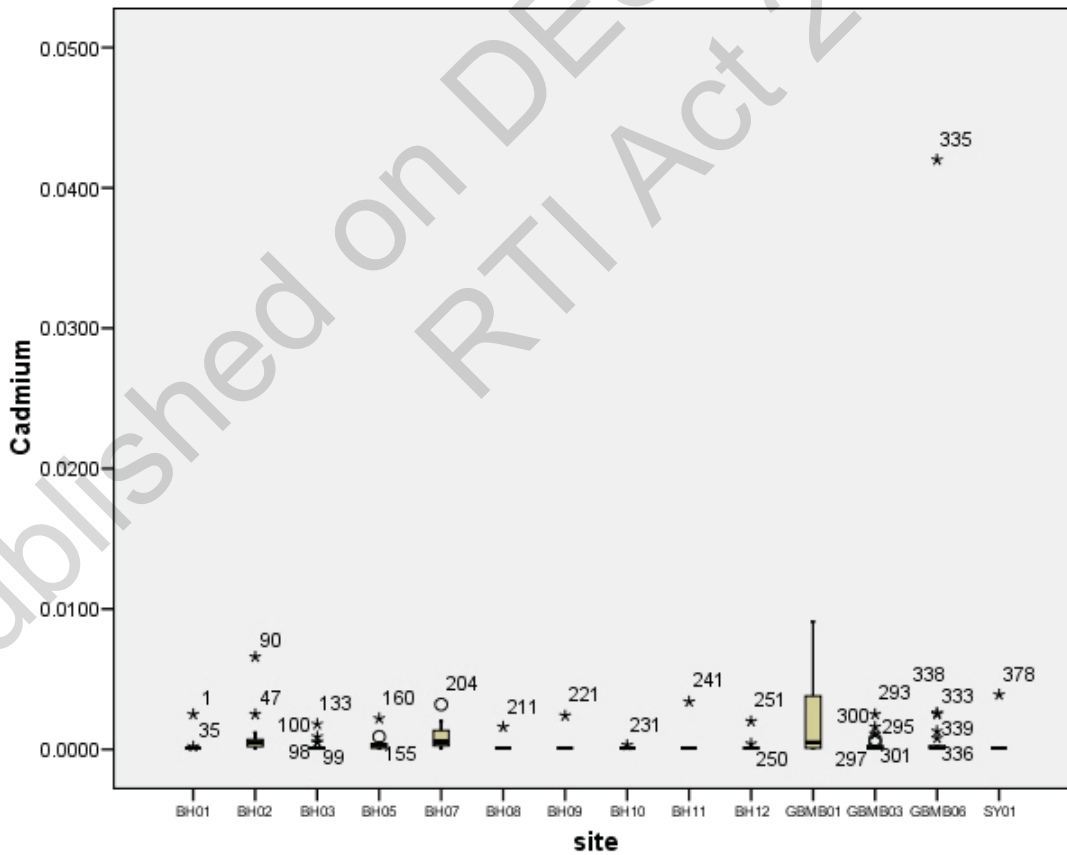


Figure 10: Boxplots – Sample Site versus Cadmium

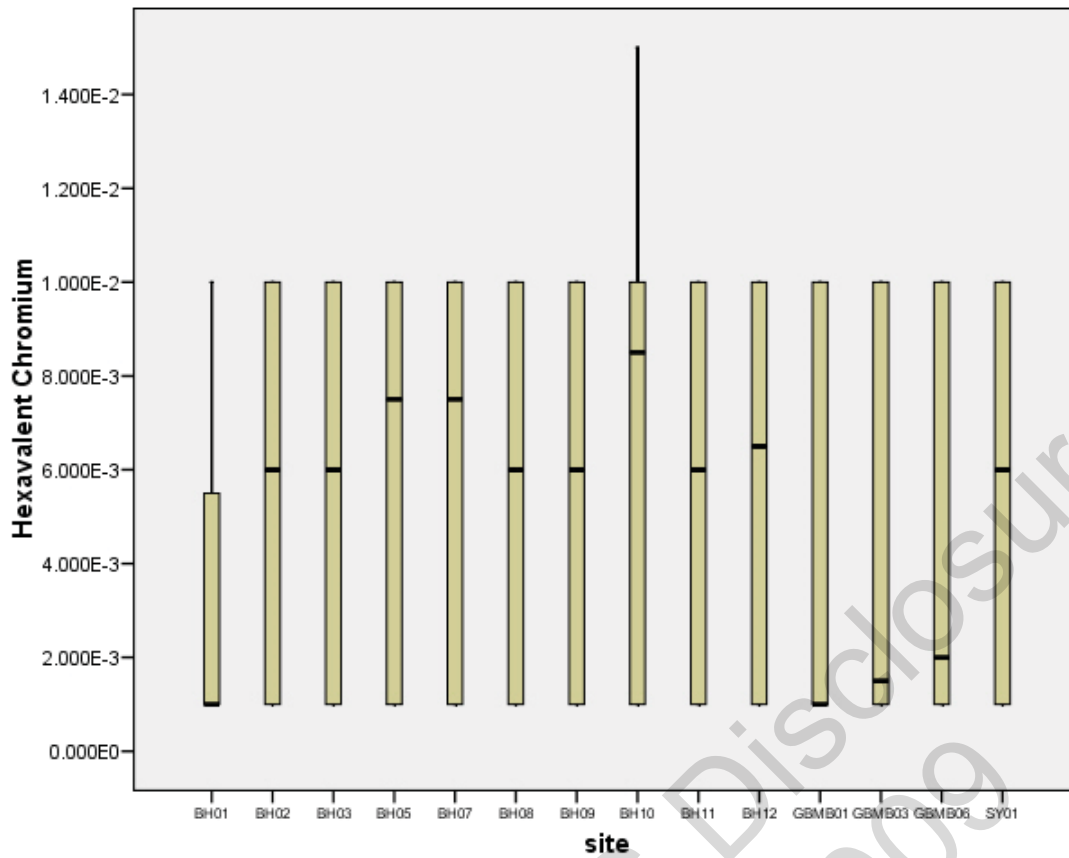


Figure 11: Boxplots – Sample Site versus Chromium (VI)

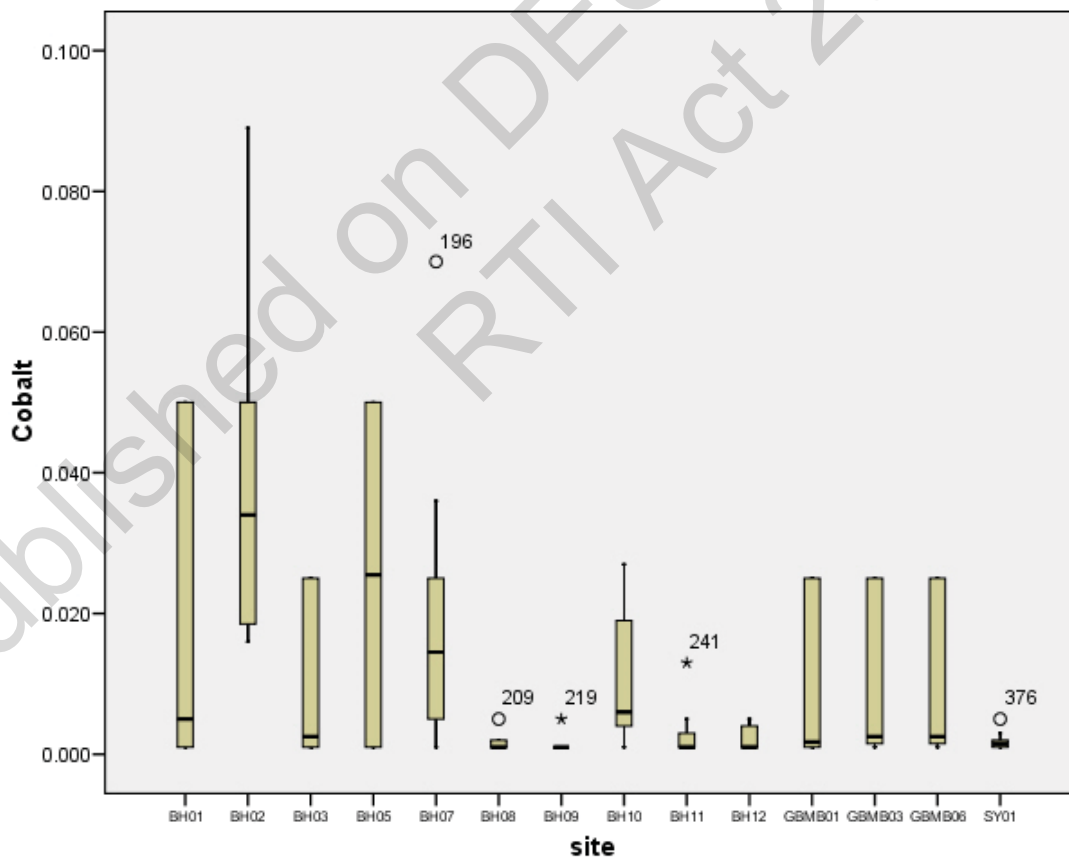


Figure 12: Boxplots – Sample Site versus Cobalt

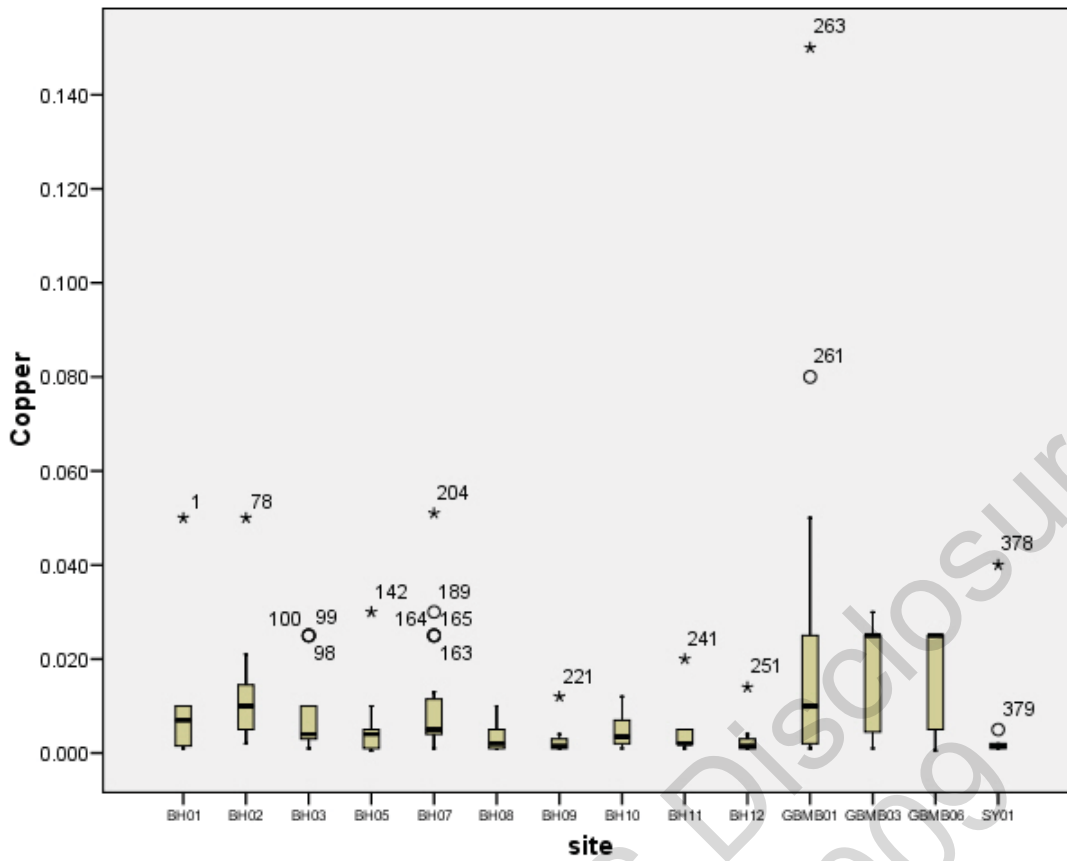


Figure 13: Boxplots – Sample Site versus Copper

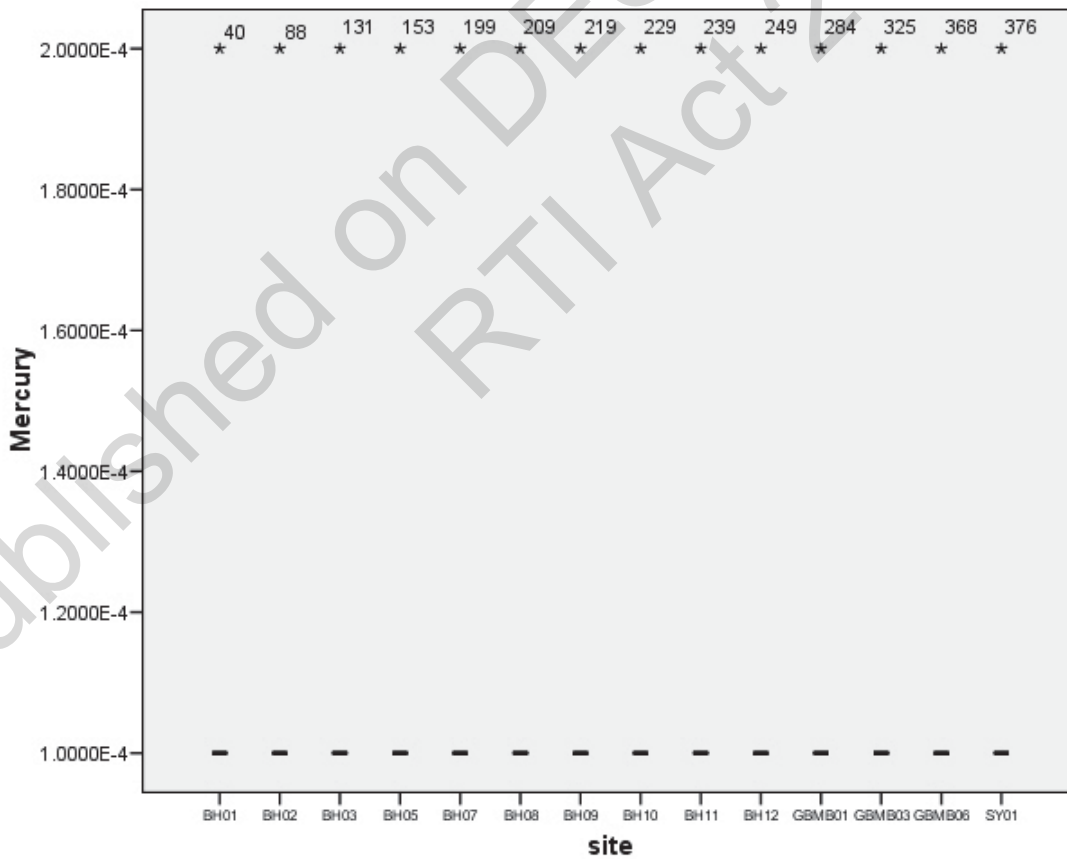


Figure 14: Boxplots – Sample Site versus Mercury

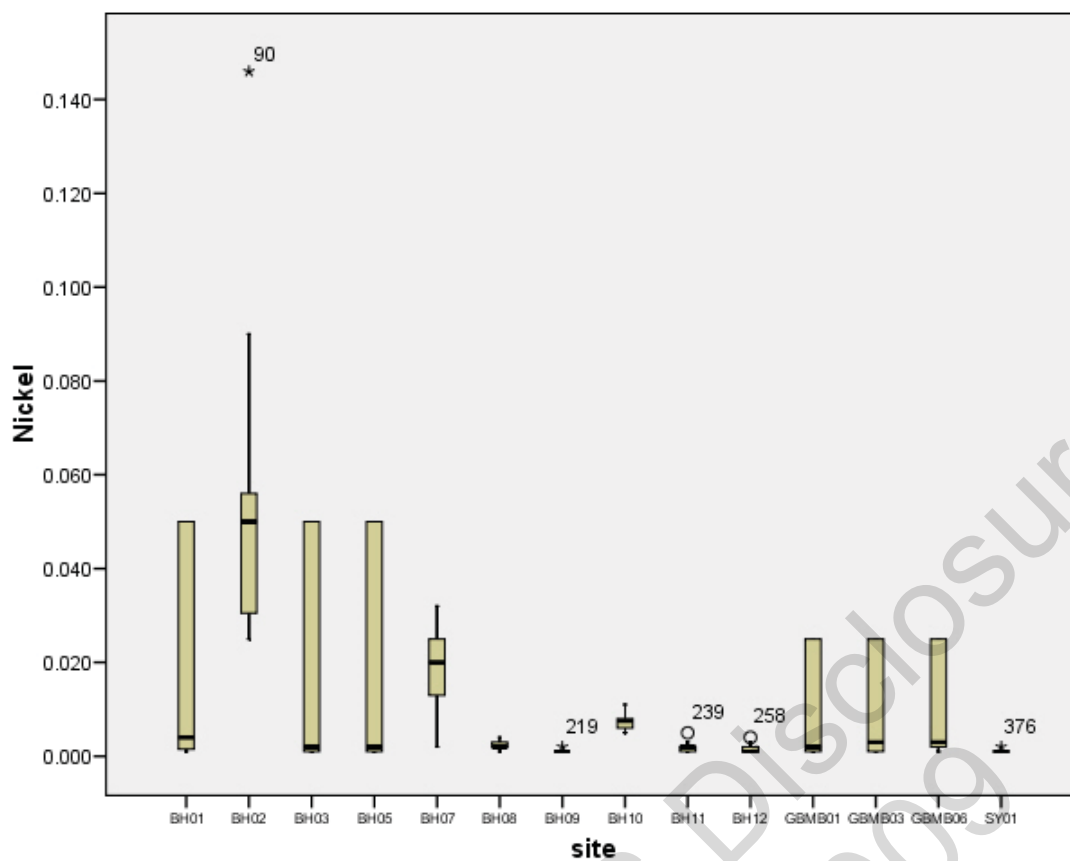


Figure 15: Boxplots – Sample Site versus Nickel

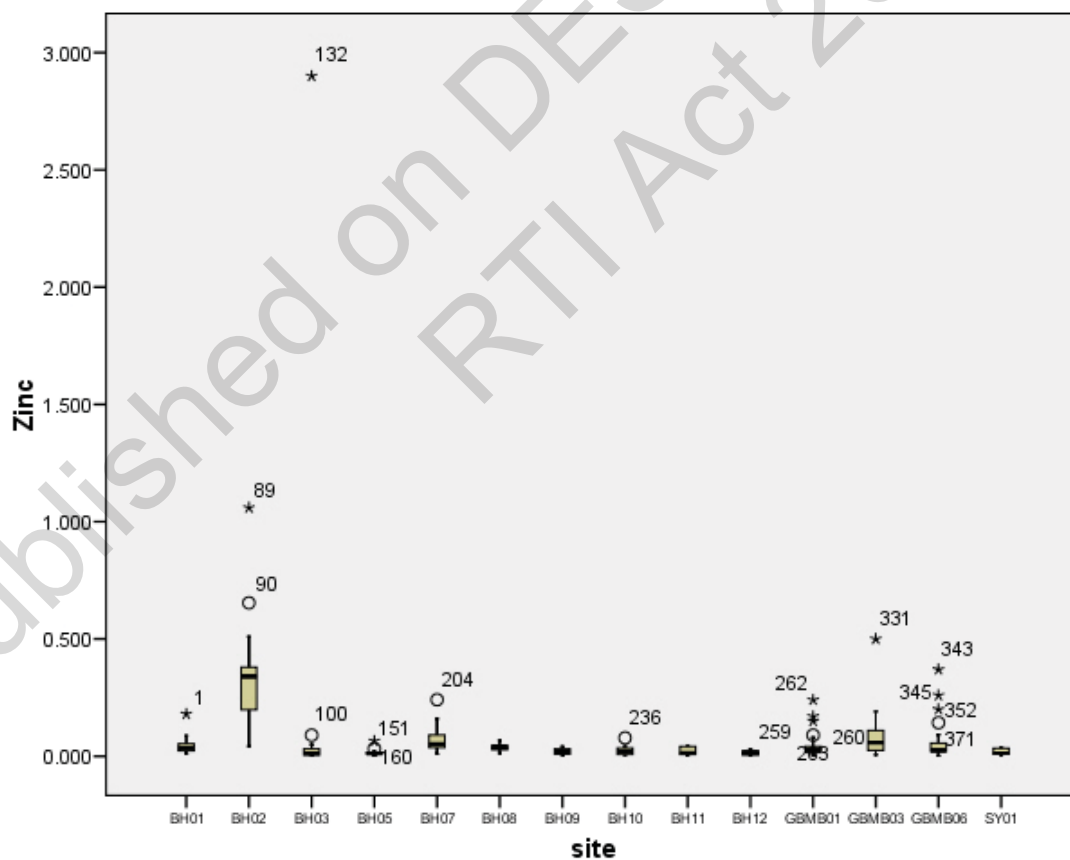


Figure 16: Boxplots – Sample Site versus Zinc

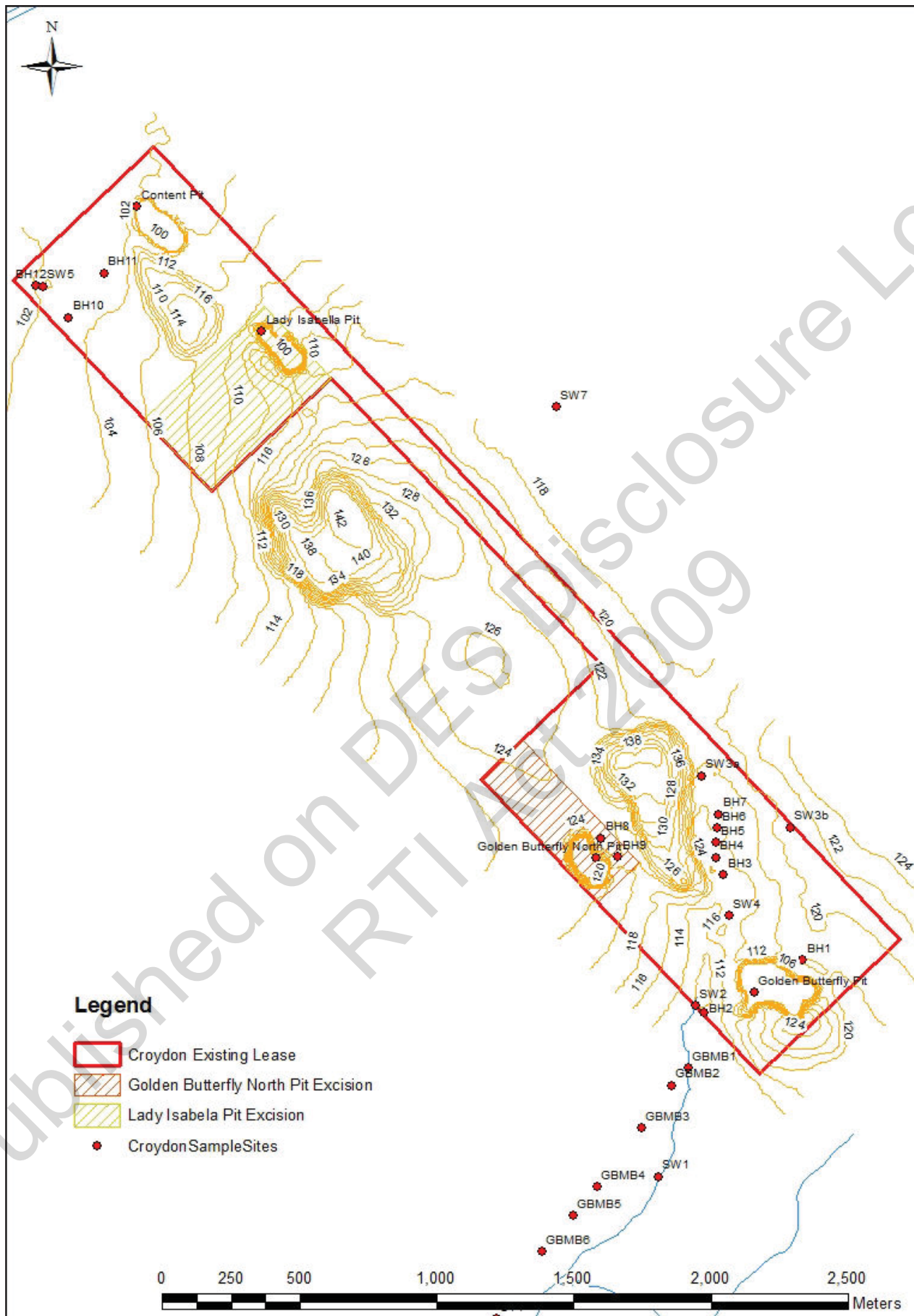


Figure 17: Croydon Lease Proposed Changes

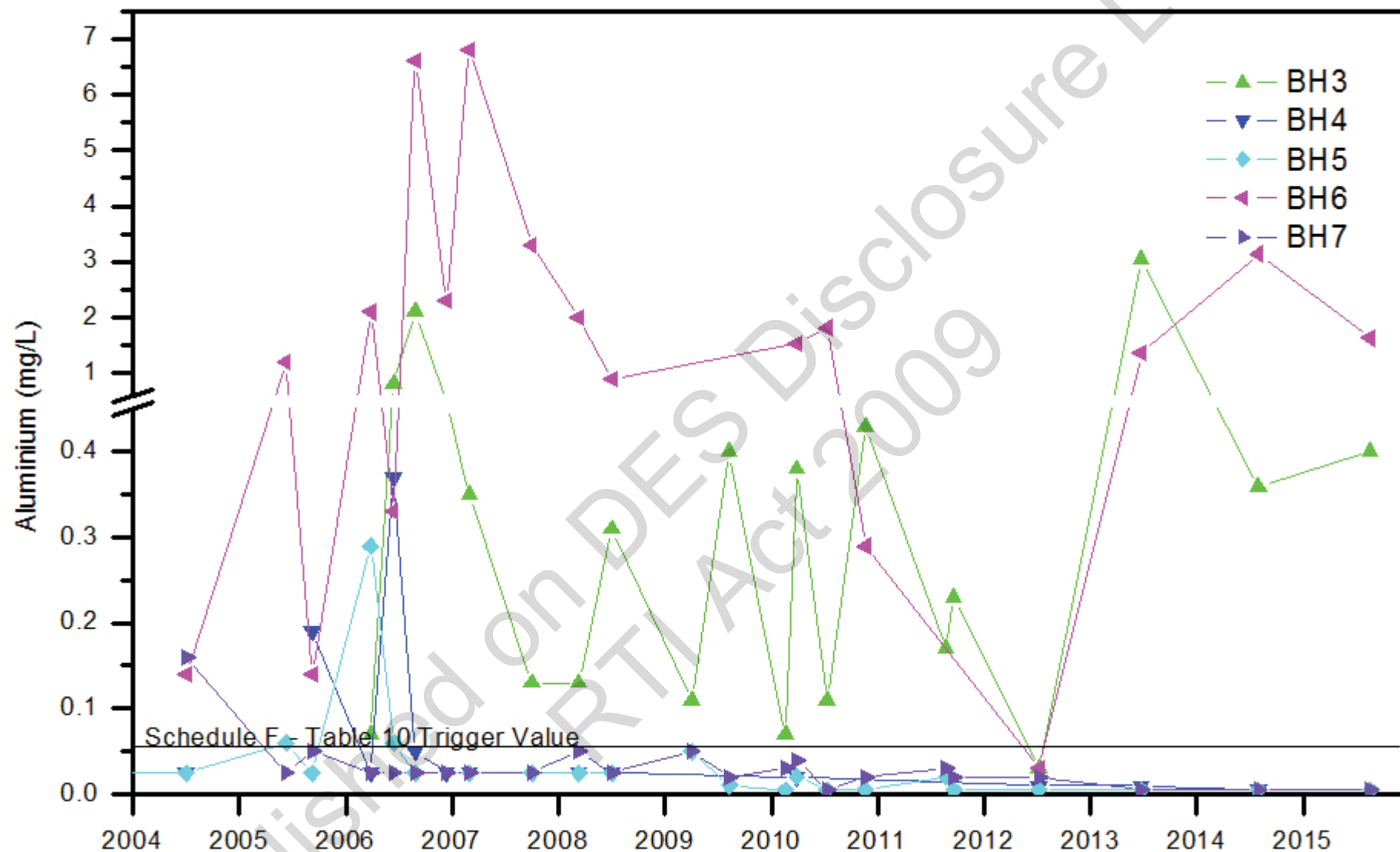


Figure 18: Golden Butterfly Dump Bores - Time Series Aluminium

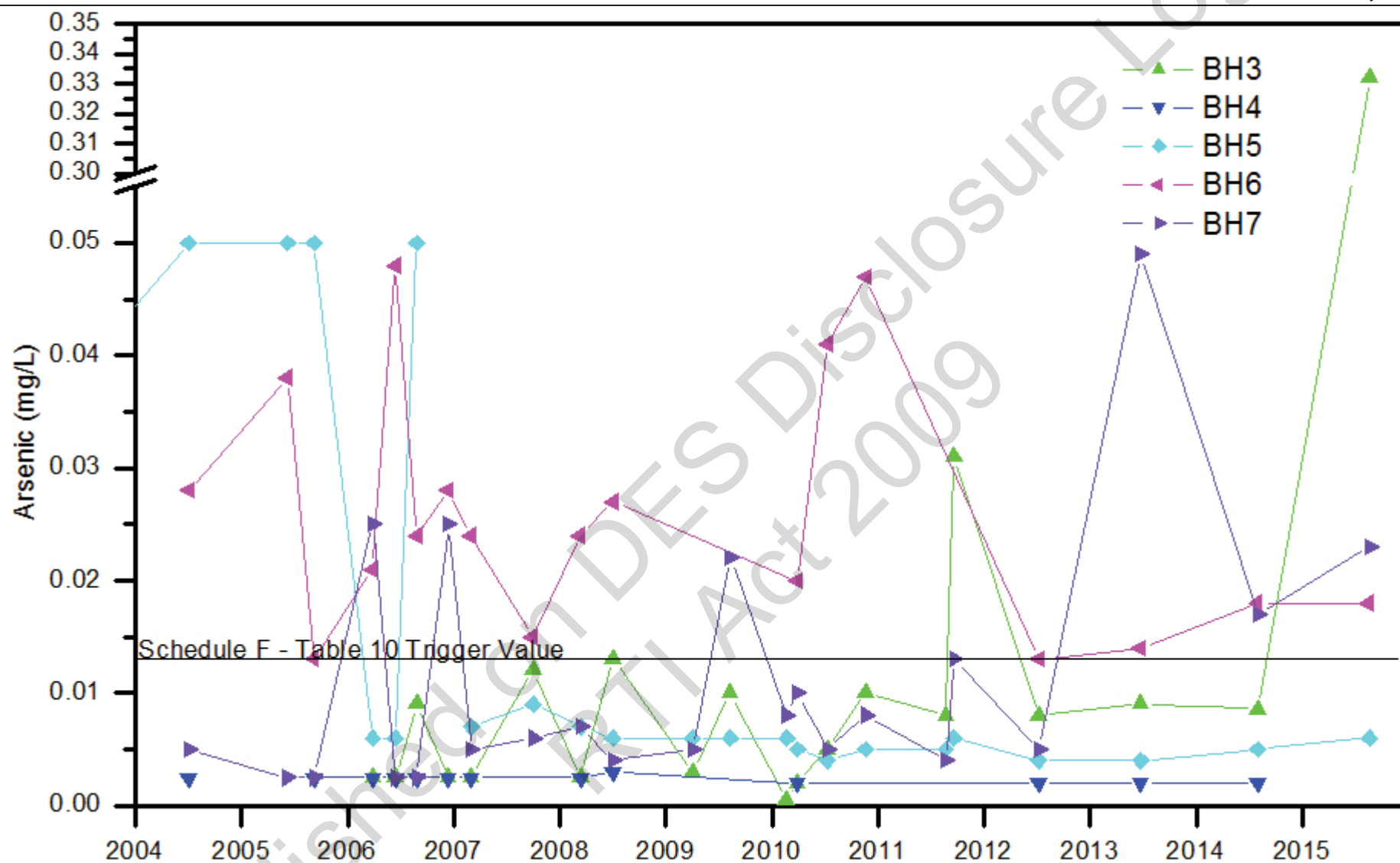


Figure 19: Golden Butterfly Dump Bores - Time Series Arsenic

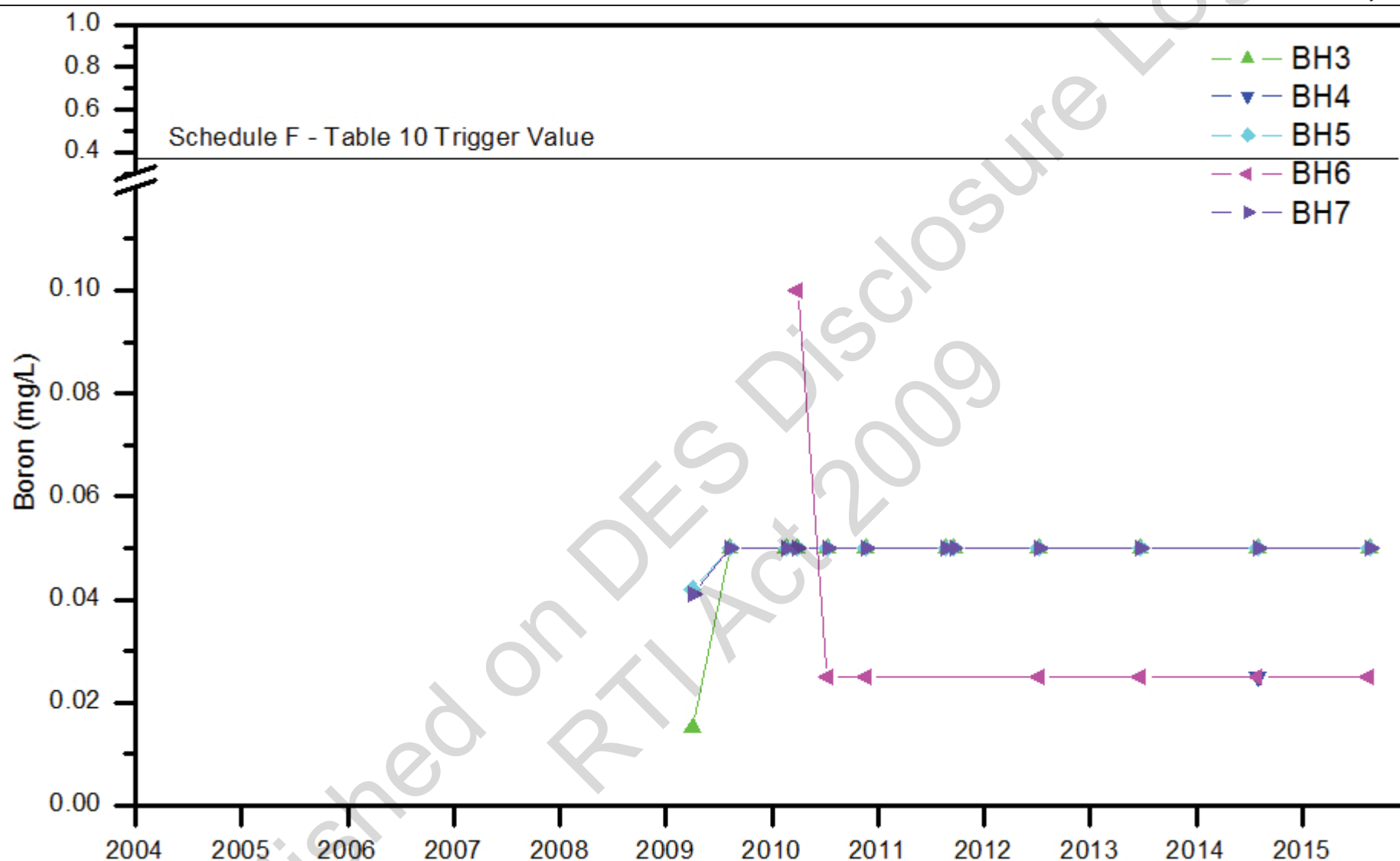


Figure 20: Golden Butterfly Dump Bores - Time Series Boron

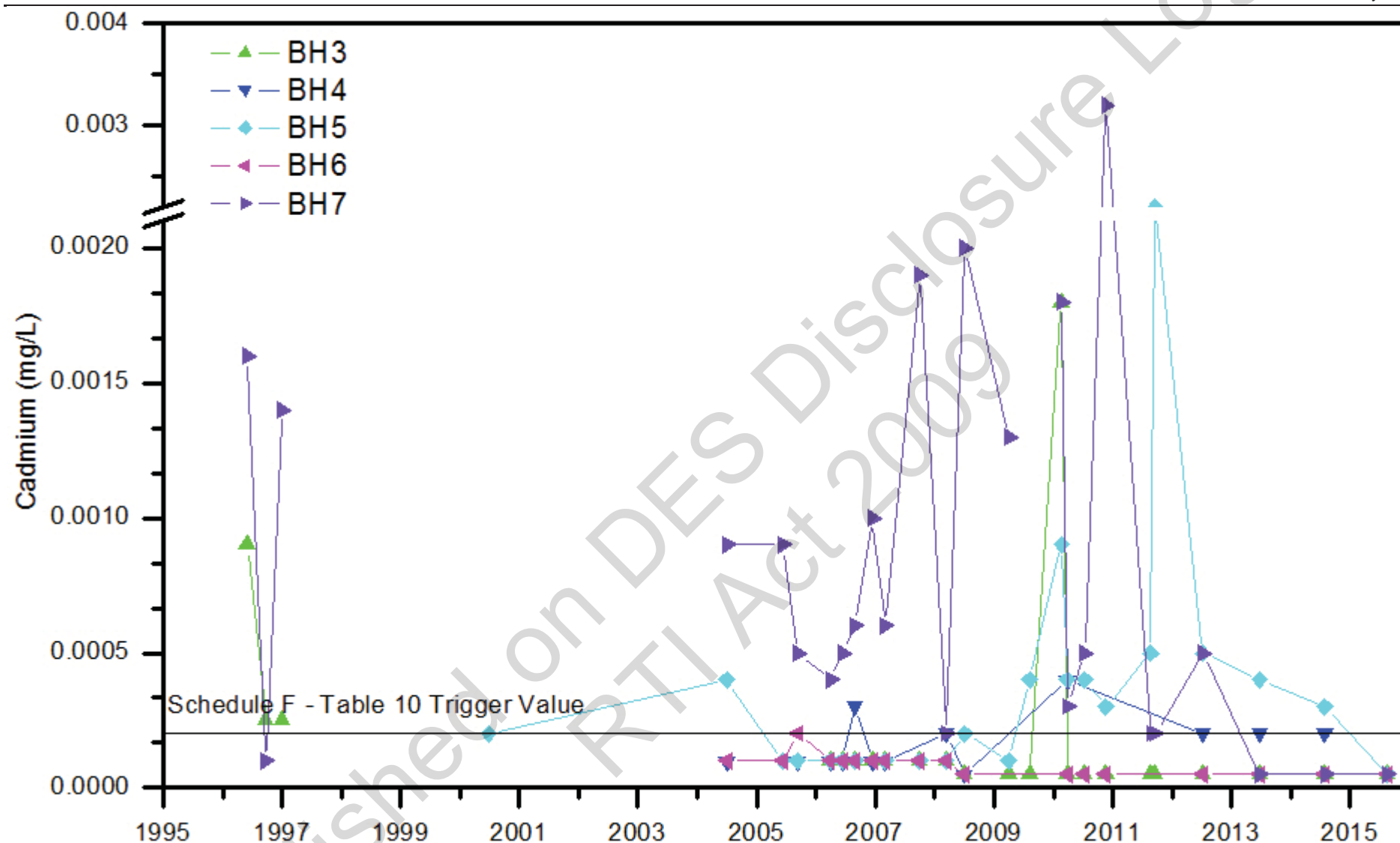


Figure 21: Golden Butterfly Dump Bores - Time Series Cadmium

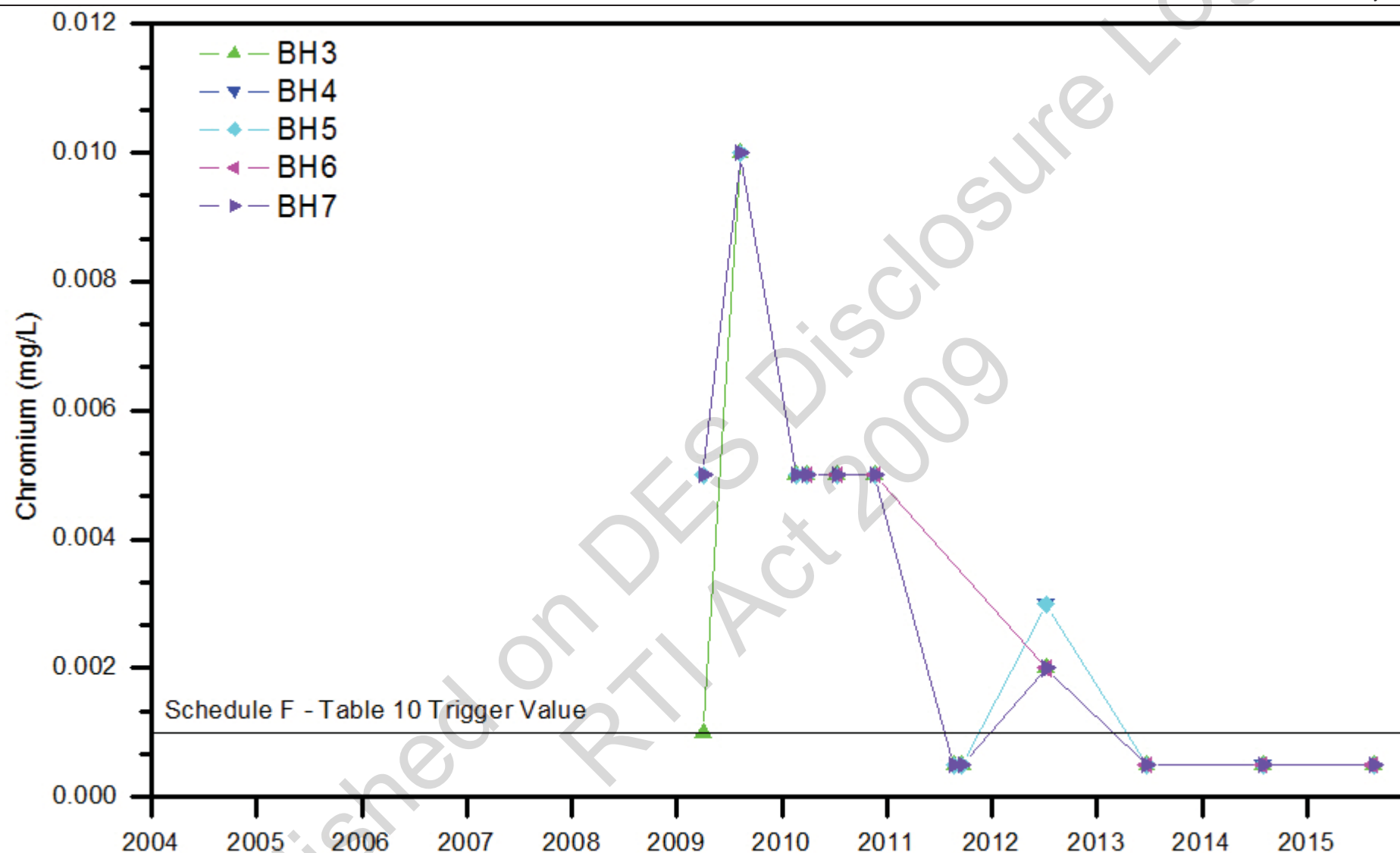


Figure 22: Golden Butterfly Dump Bores - Time Series Chromium

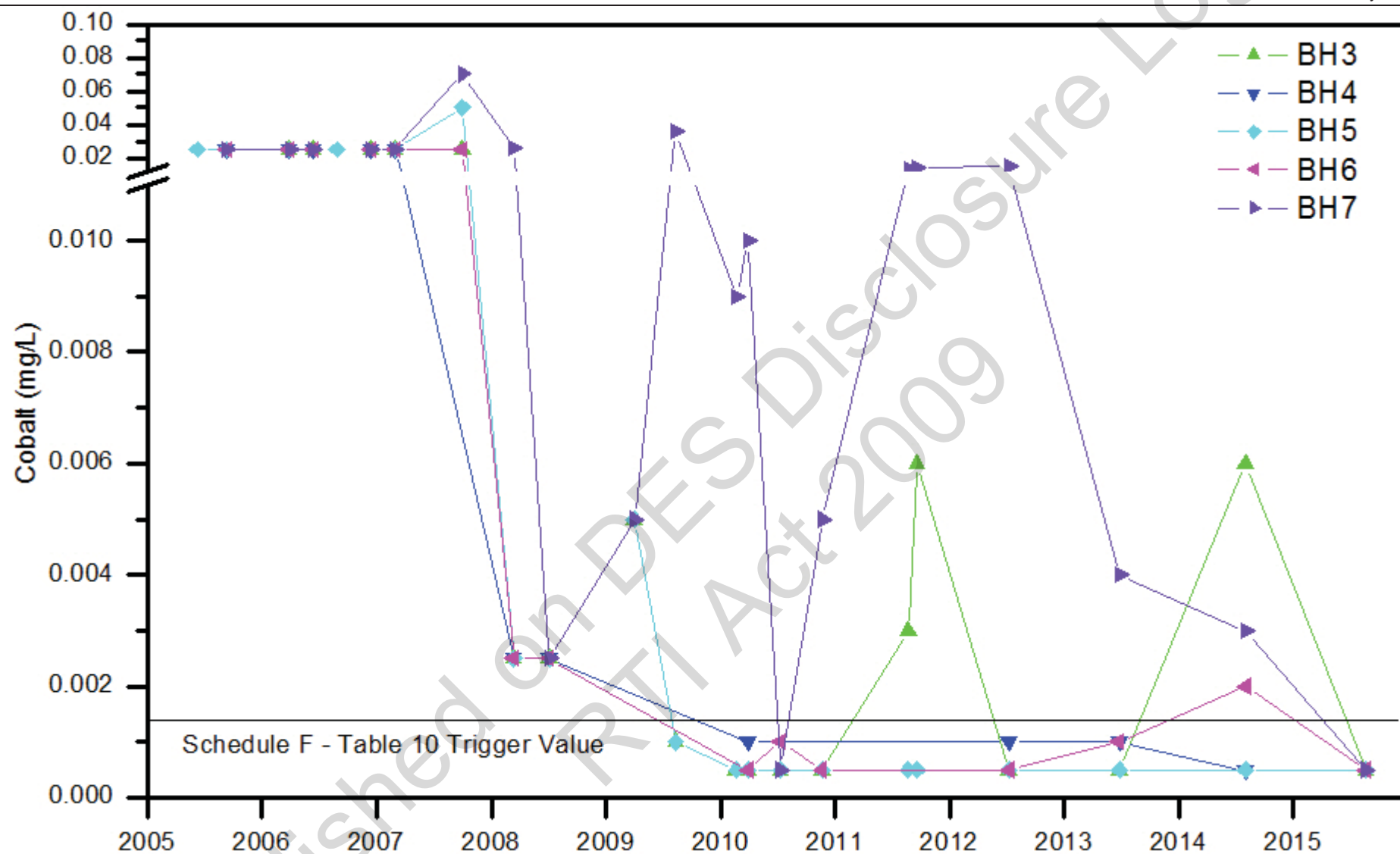


Figure 23: Golden Butterfly Dump Bores - Time Series Cobalt

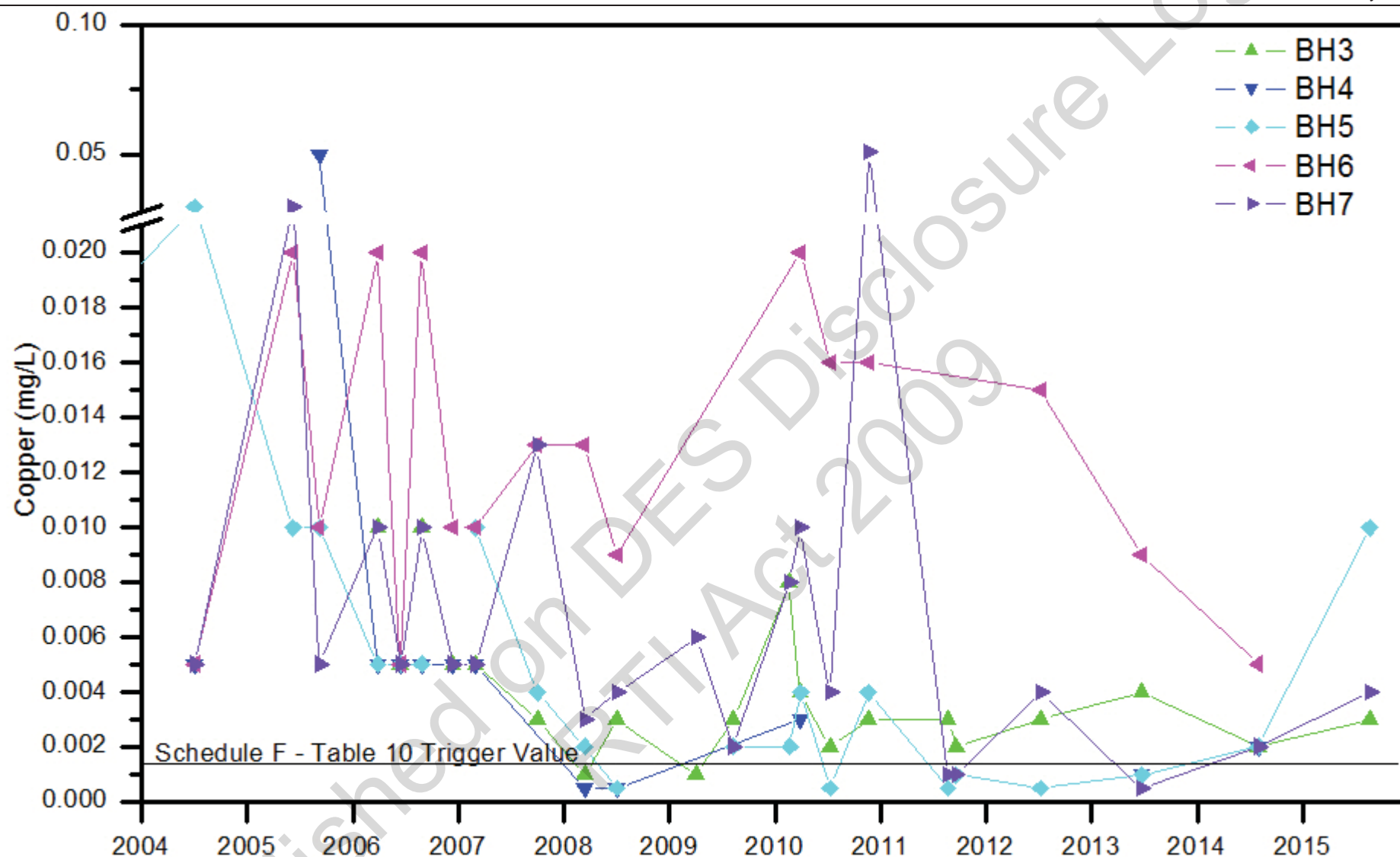


Figure 24: Golden Butterfly Dump Bores - Time Series Copper

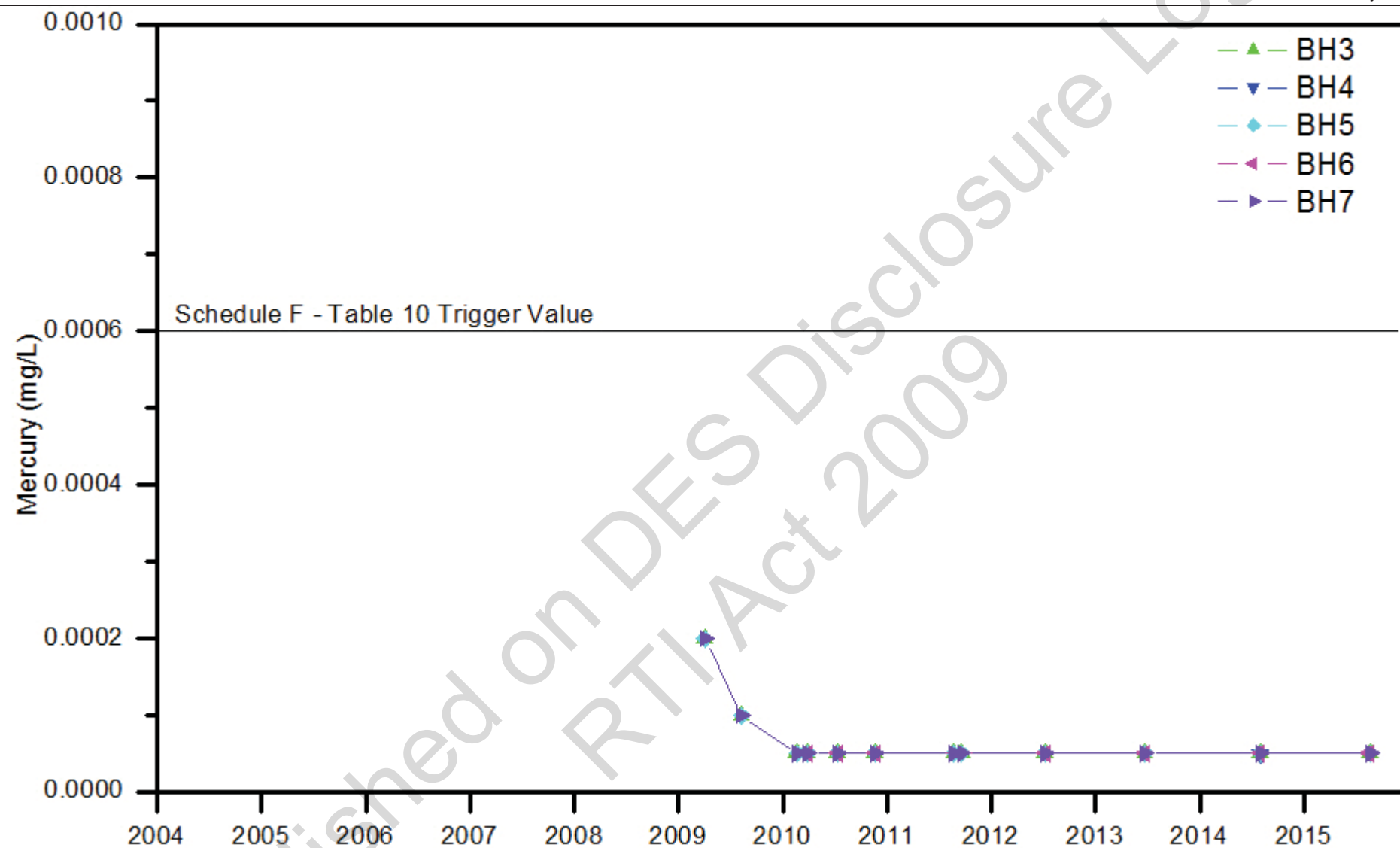


Figure 25: Golden Butterfly Dump Bores - Time Series Mercury

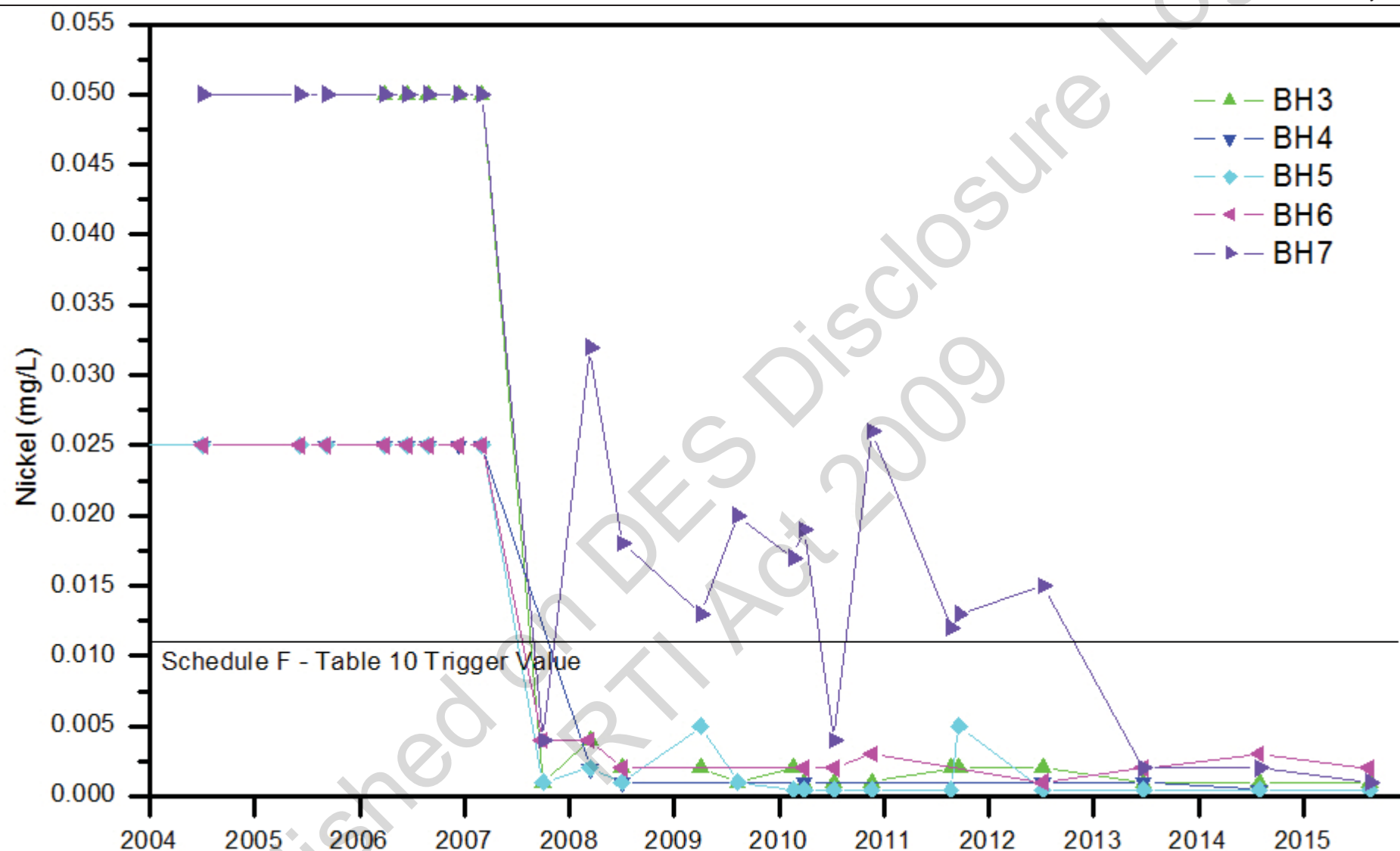


Figure 26: Golden Butterfly Dump Bores - Time Series Nickel

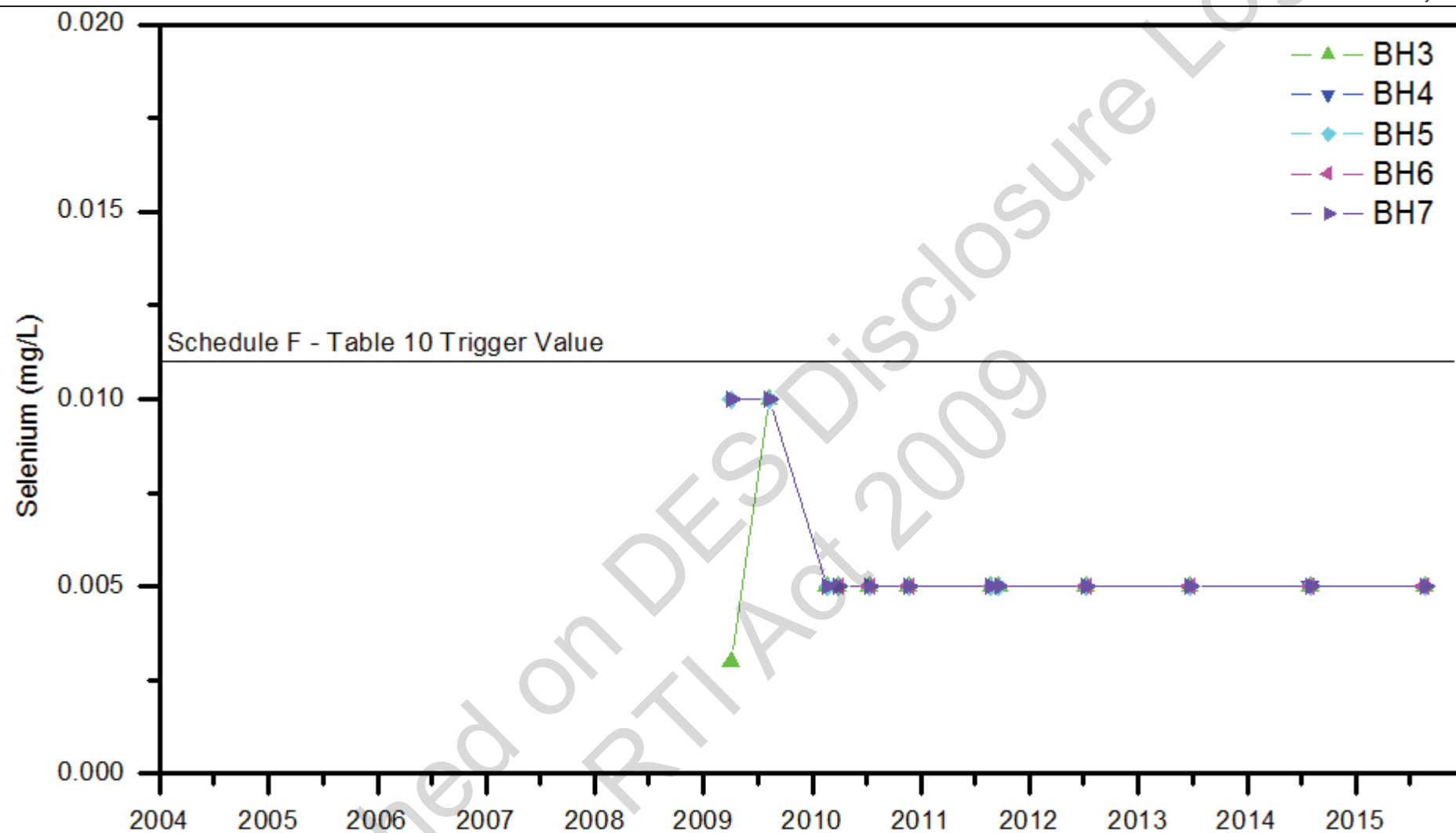


Figure 27: Golden Butterfly Dump Bores - Time Series Selenium

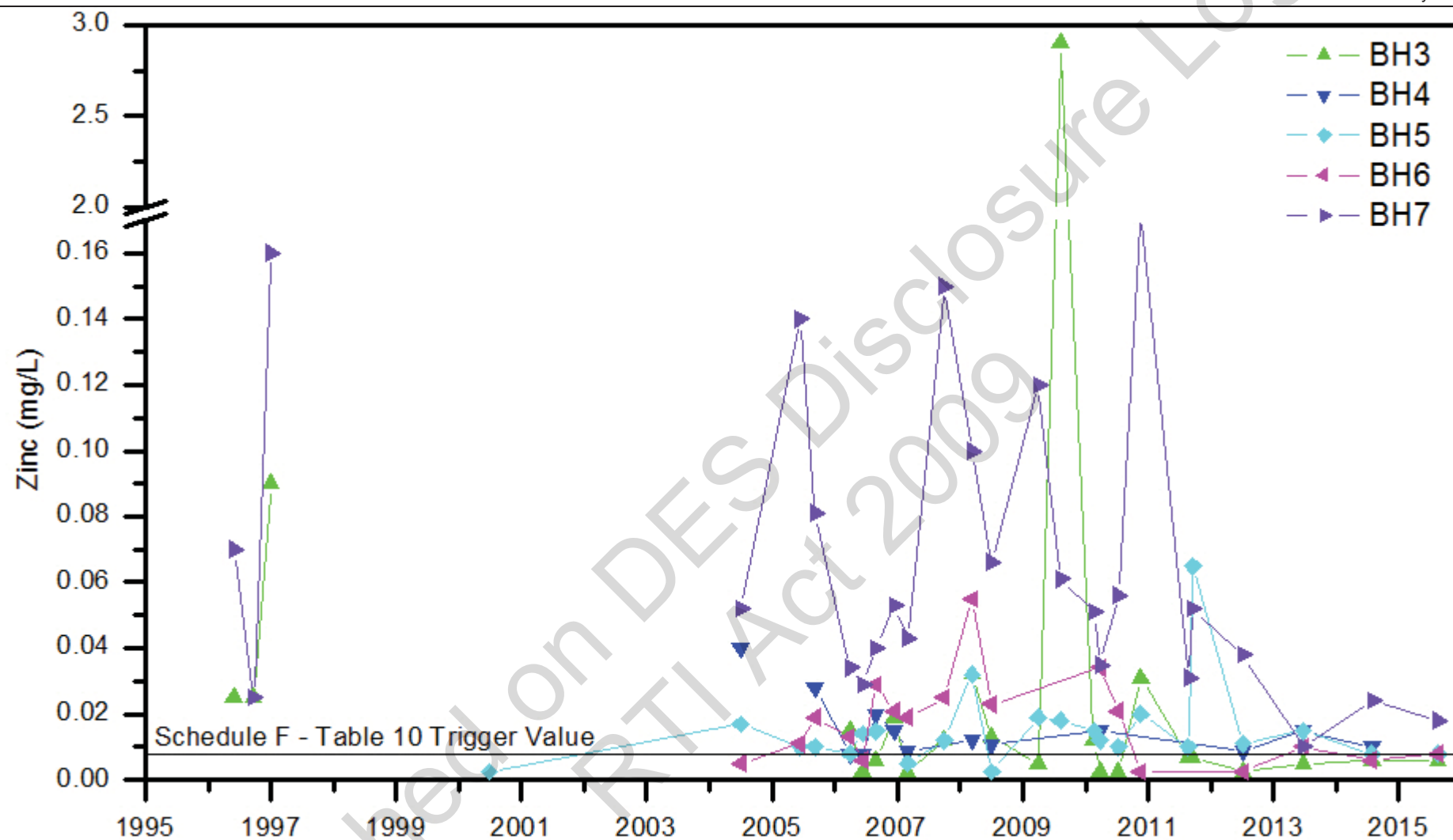


Figure 28: Golden Butterfly Dump Bores - Time Series Zinc

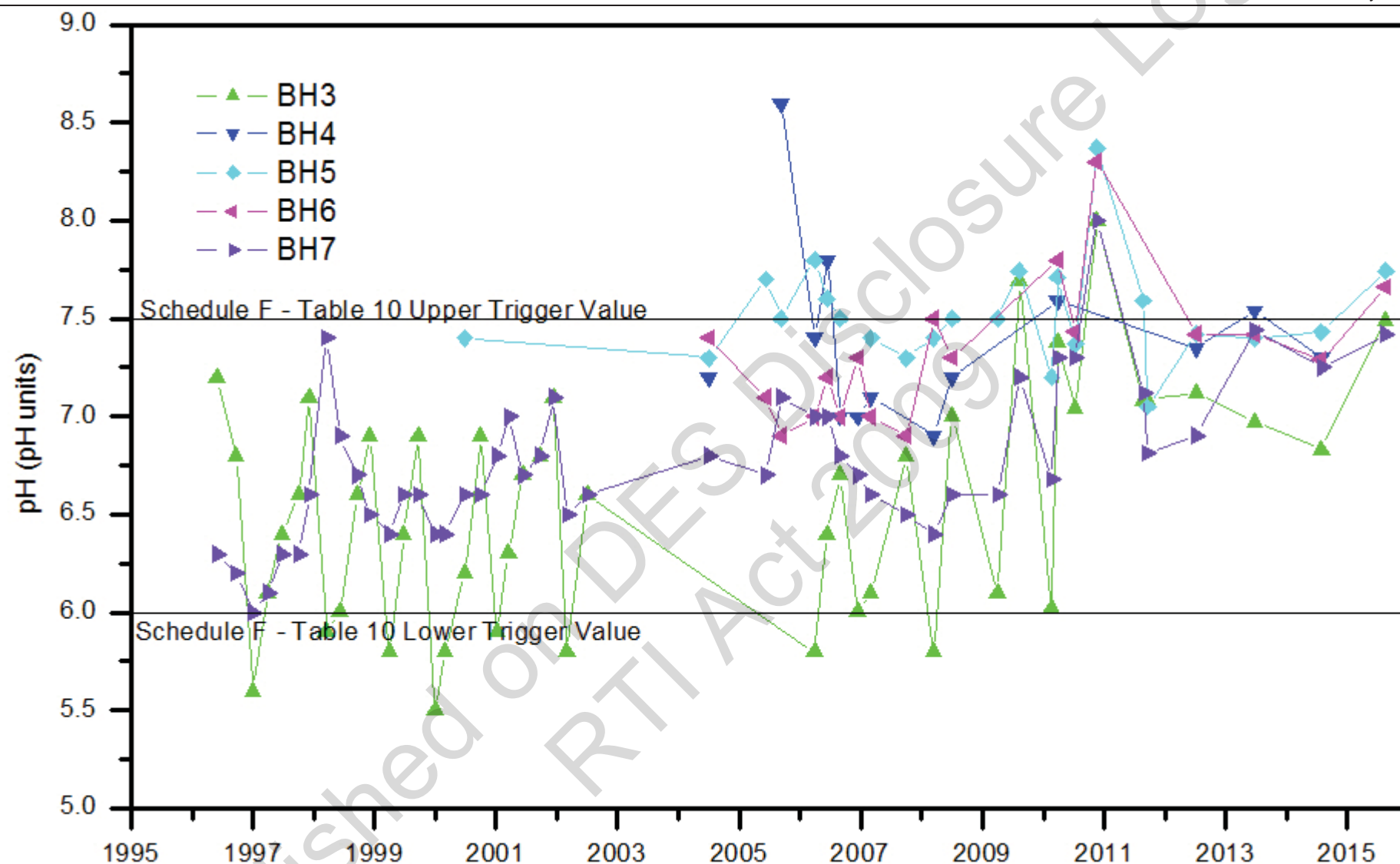


Figure 29: Golden Butterfly Dump Bores - Time Series pH

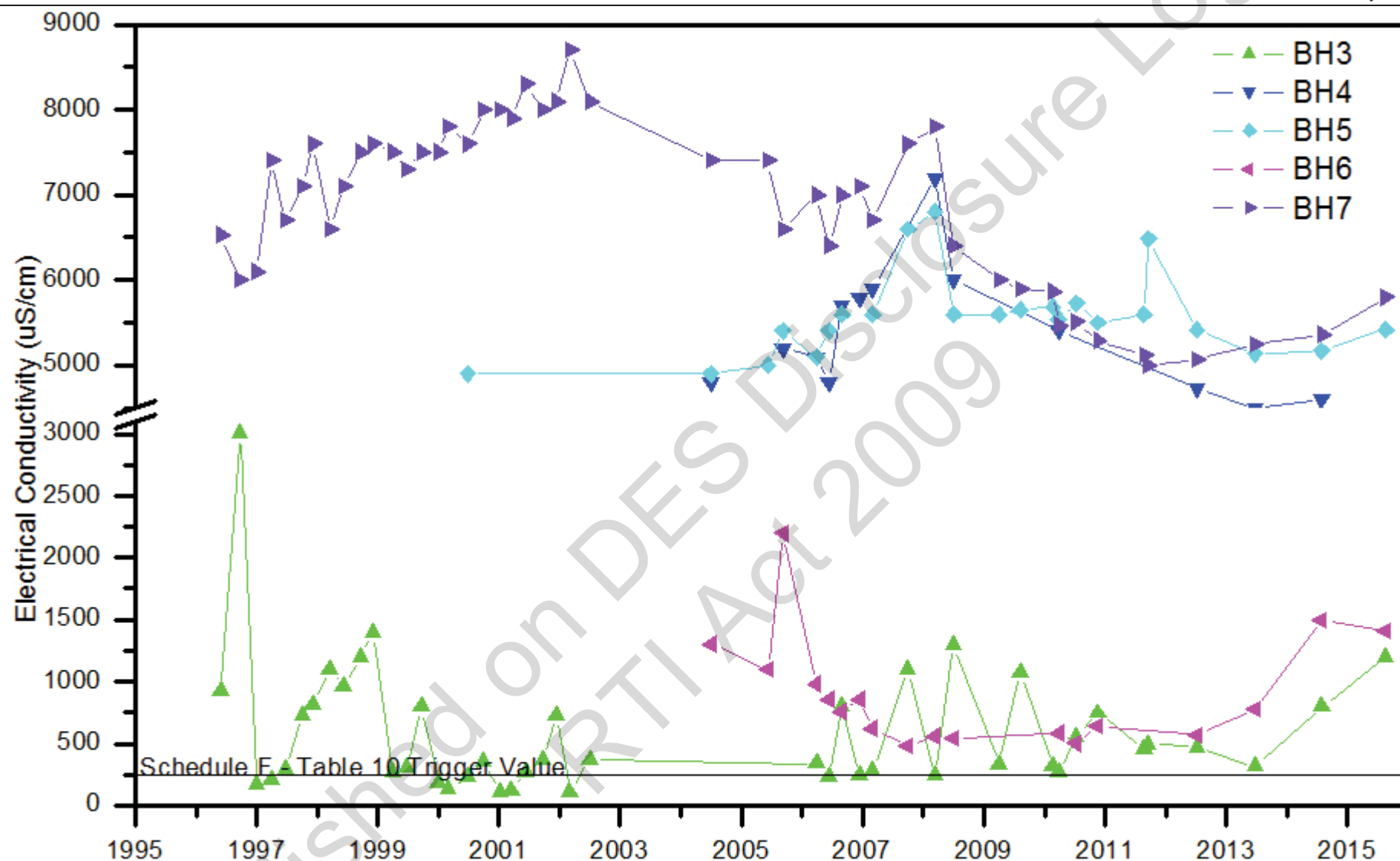


Figure 30: Golden Butterfly Dump Bores - Time Series E.C

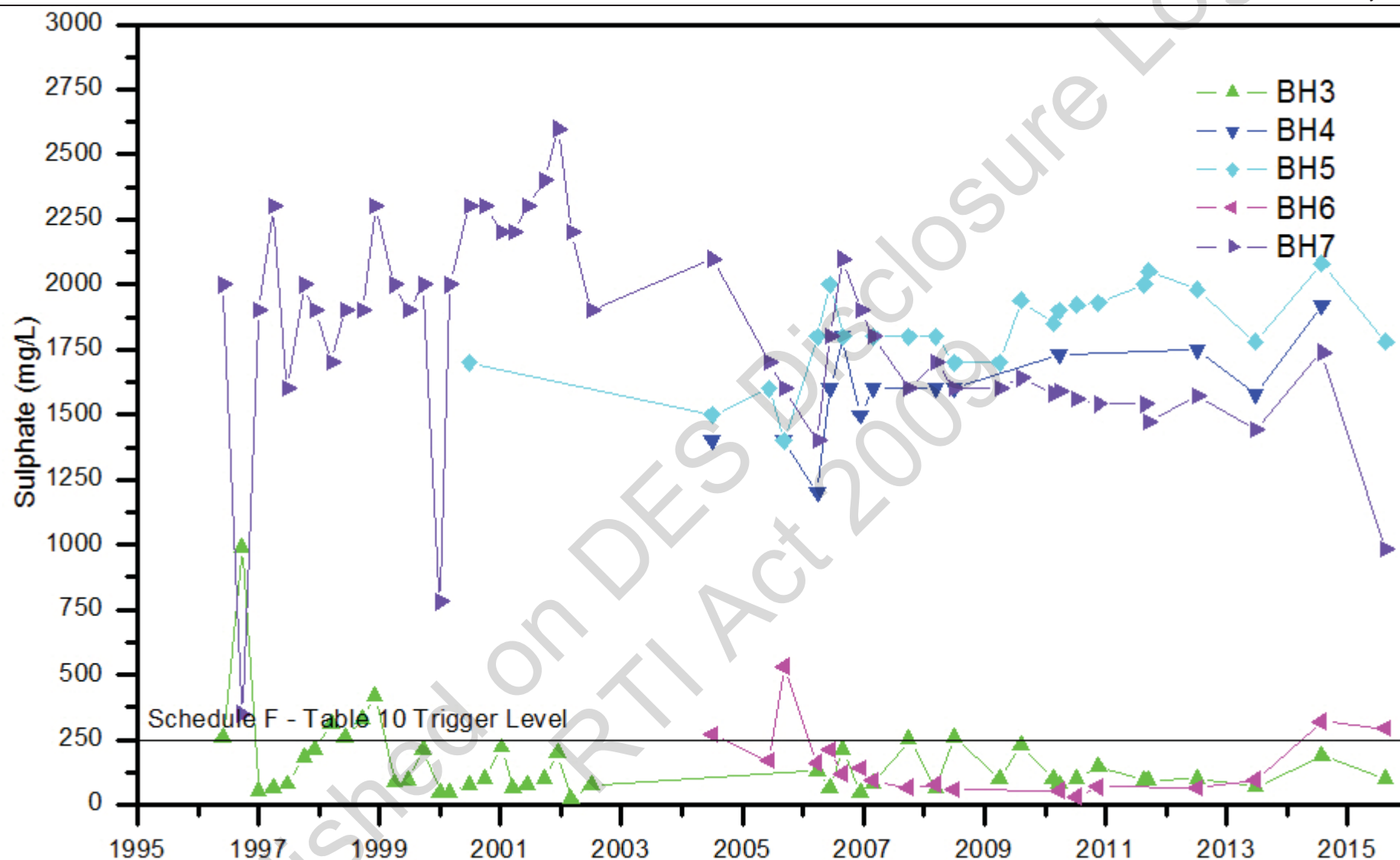


Figure 31: Golden Butterfly Dump Bores - Time Series Sulfate

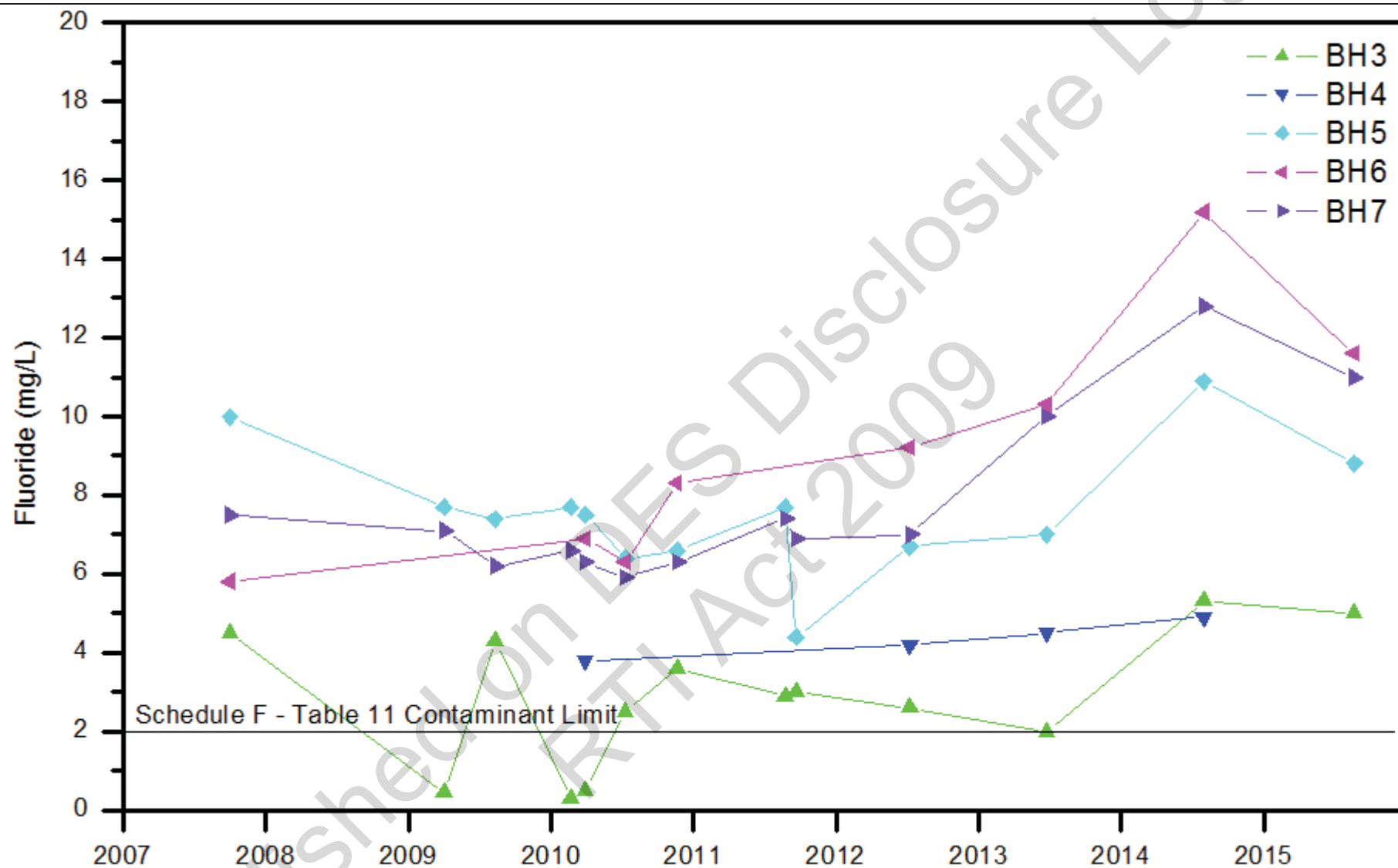


Figure 32: Golden Butterfly Dump Bores - Time Series Fluoride

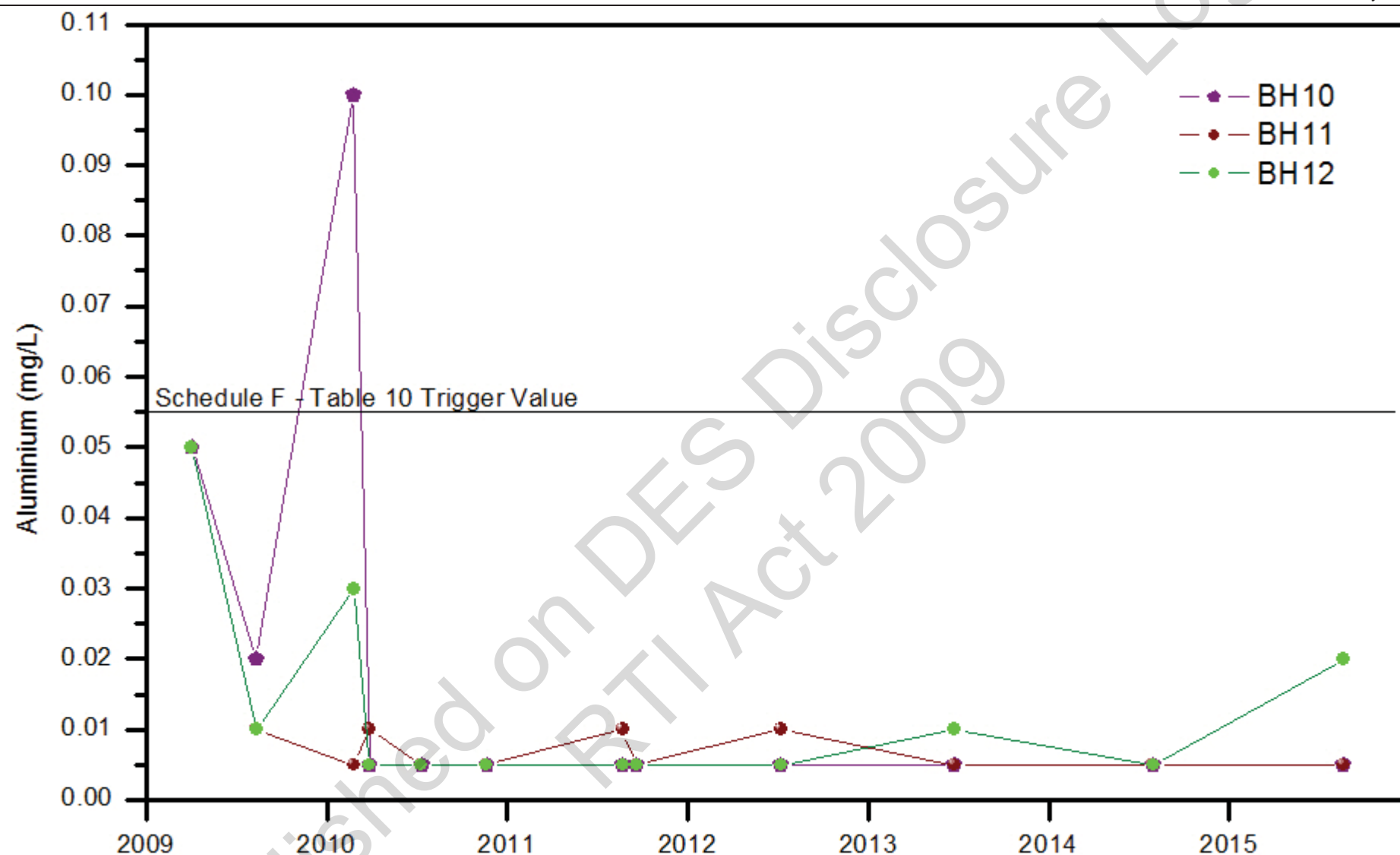


Figure 33: Content Pit Bores - Time Series Aluminium

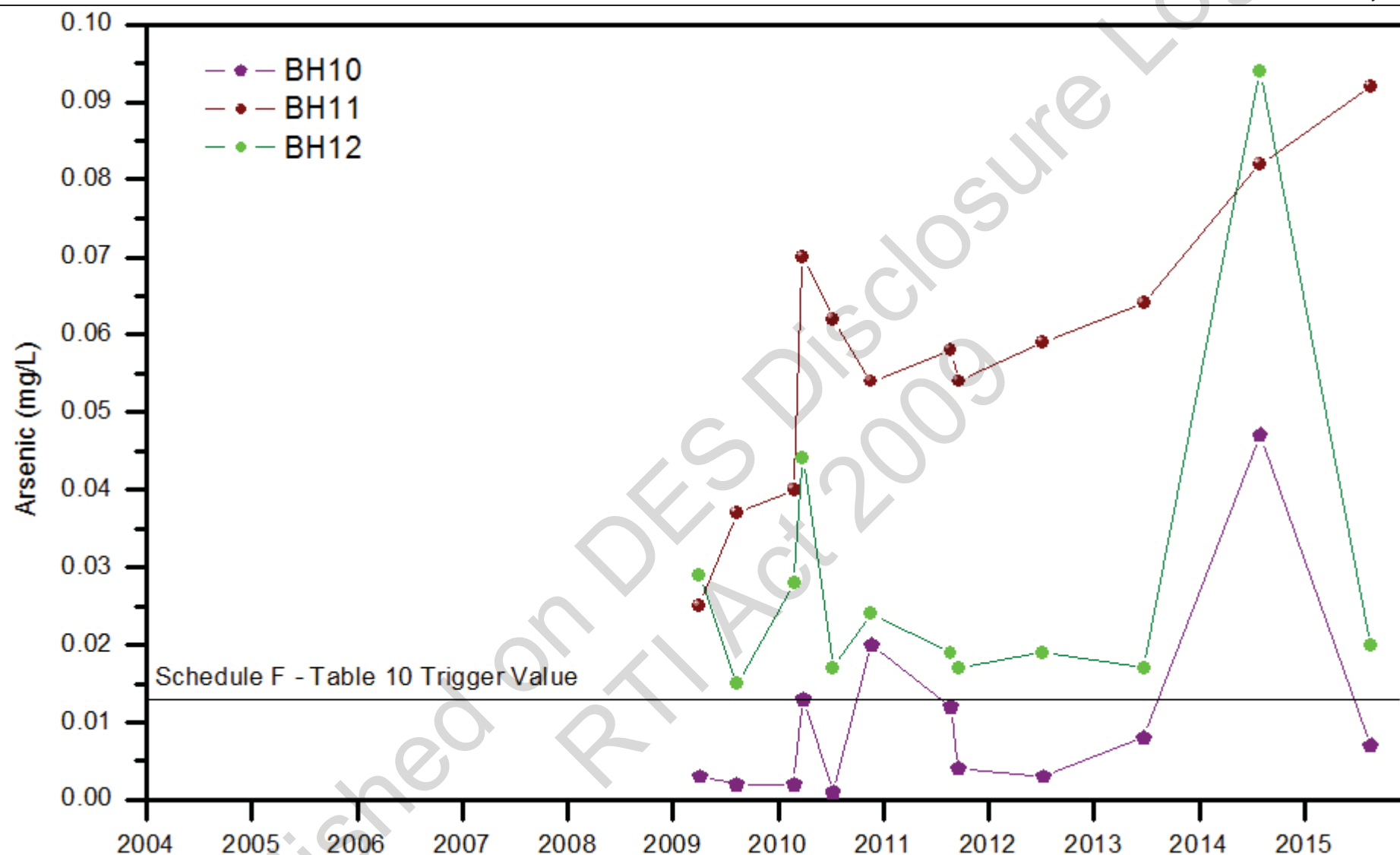


Figure 34: Content Pit Bores - Time Series Arsenic

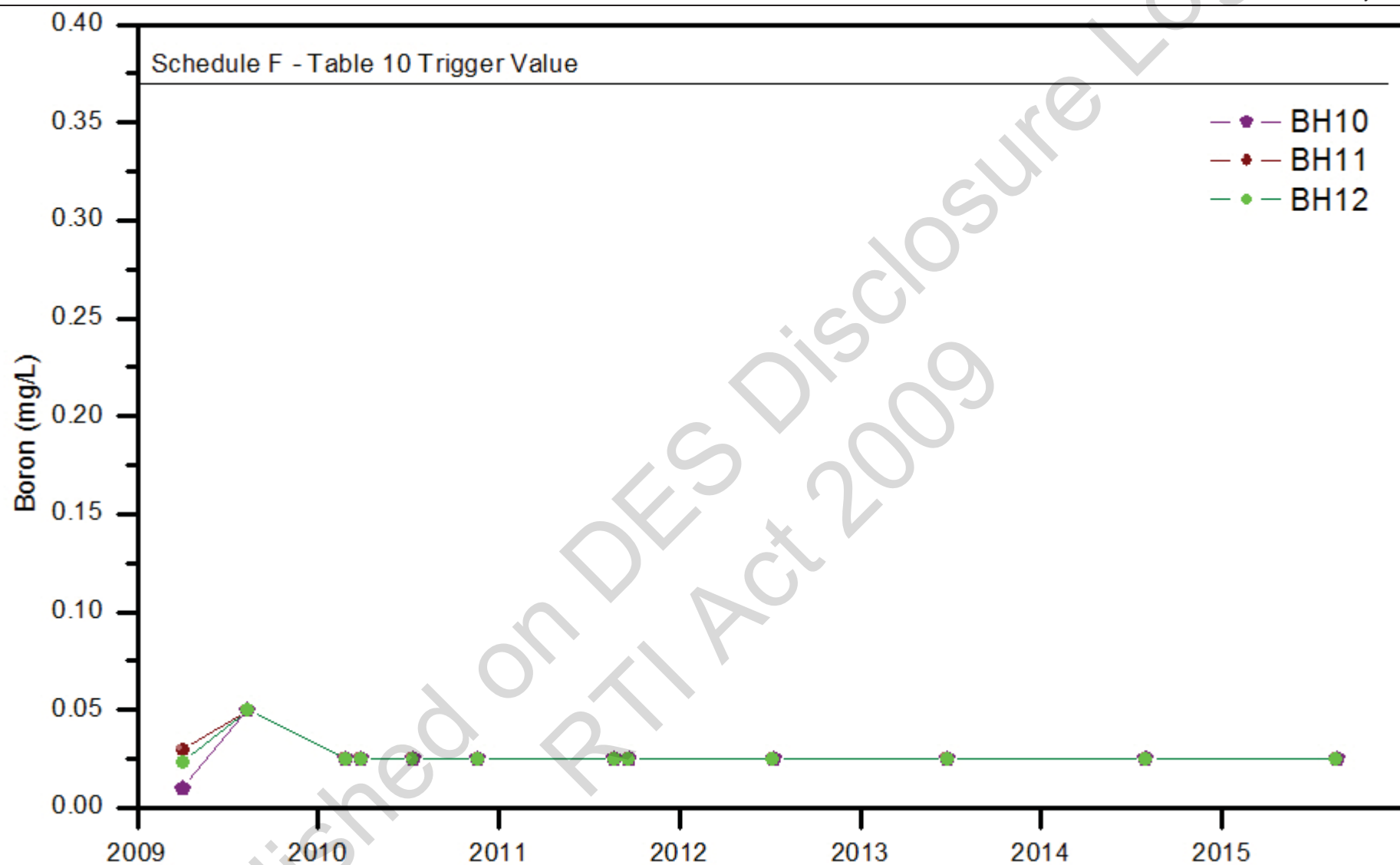


Figure 35: Content Pit Bores - Time Series Boron

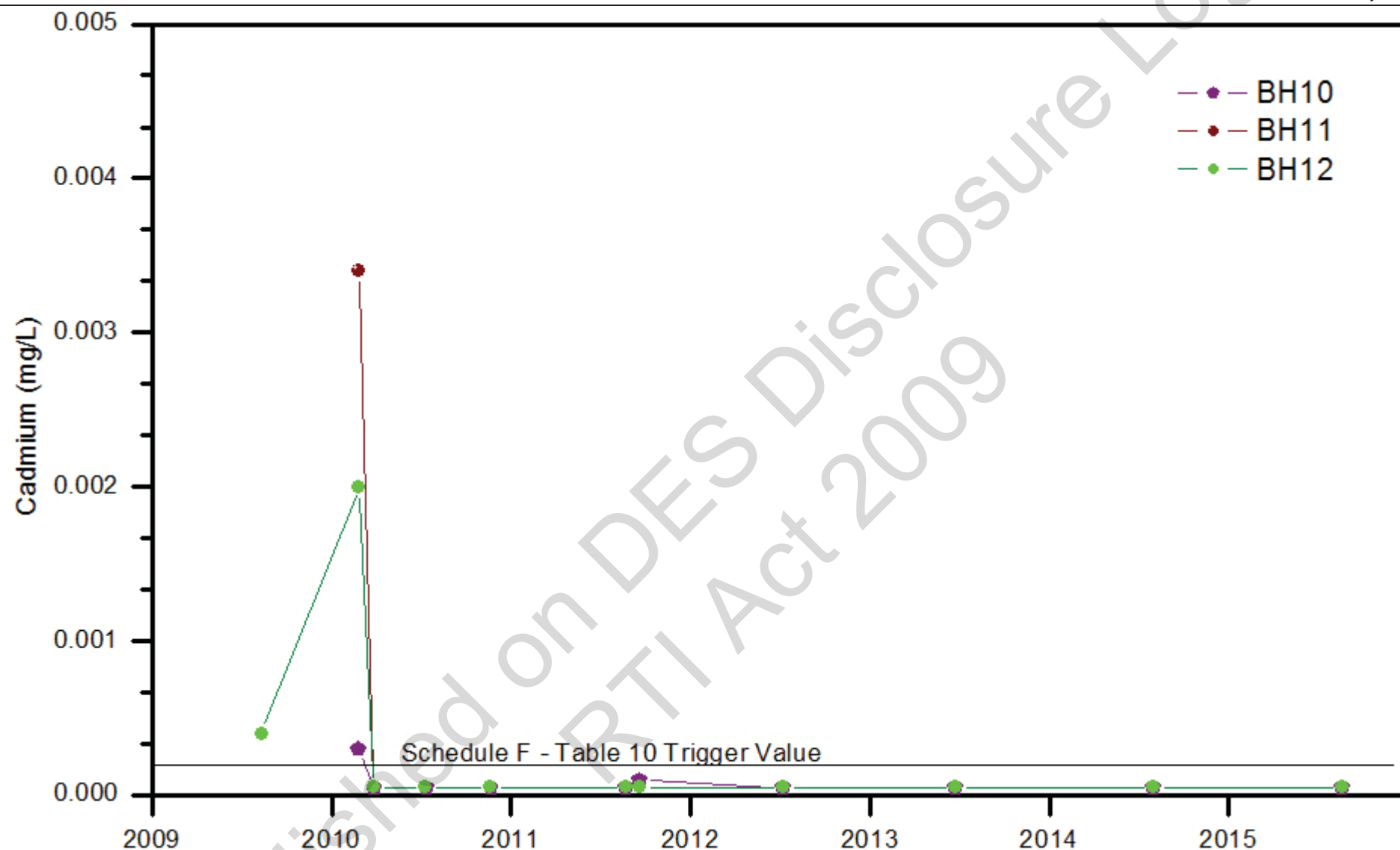


Figure 36: Content Pit Bores - Time Series Cadmium

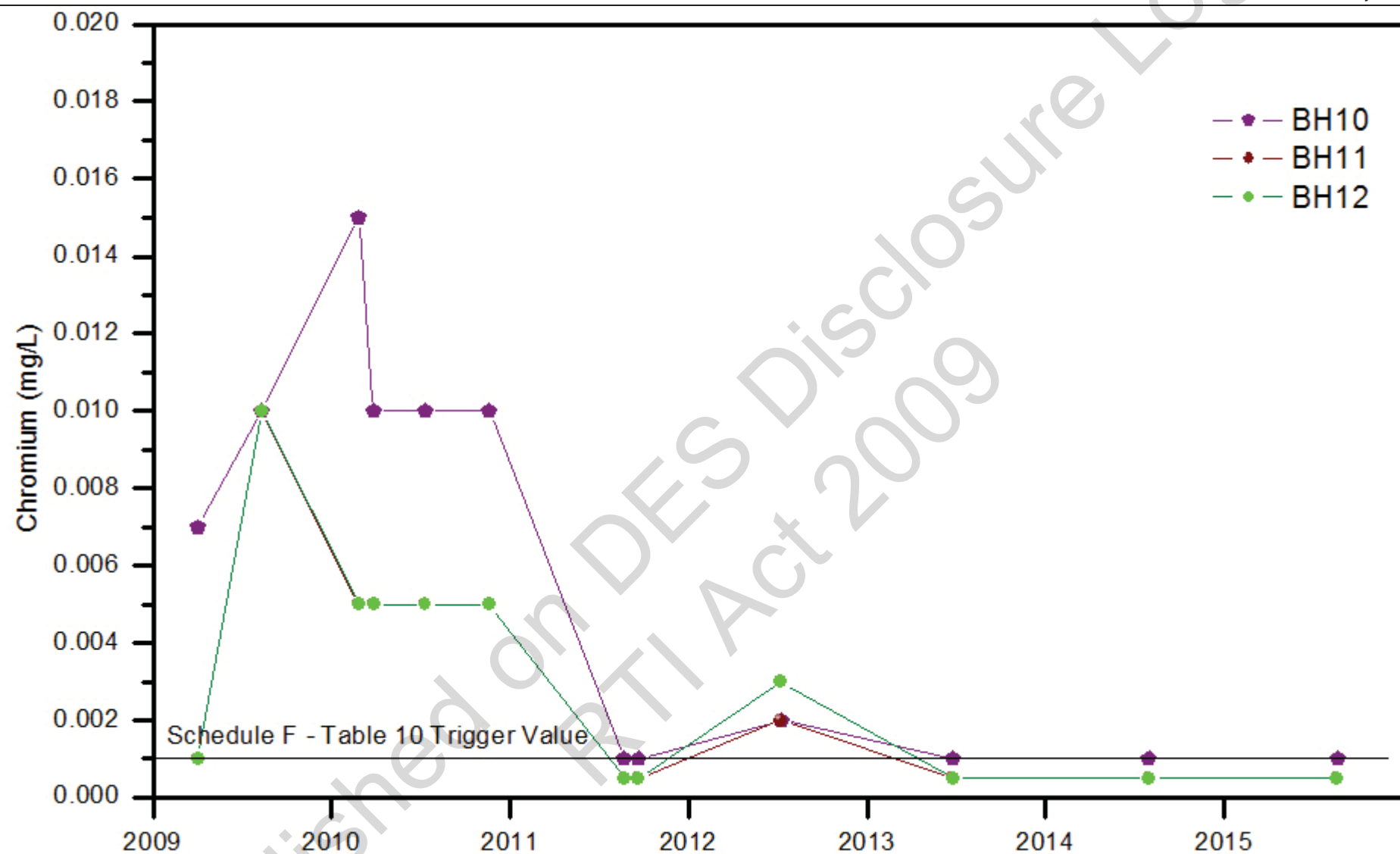


Figure 37: Content Pit Bores - Time Series Chromium

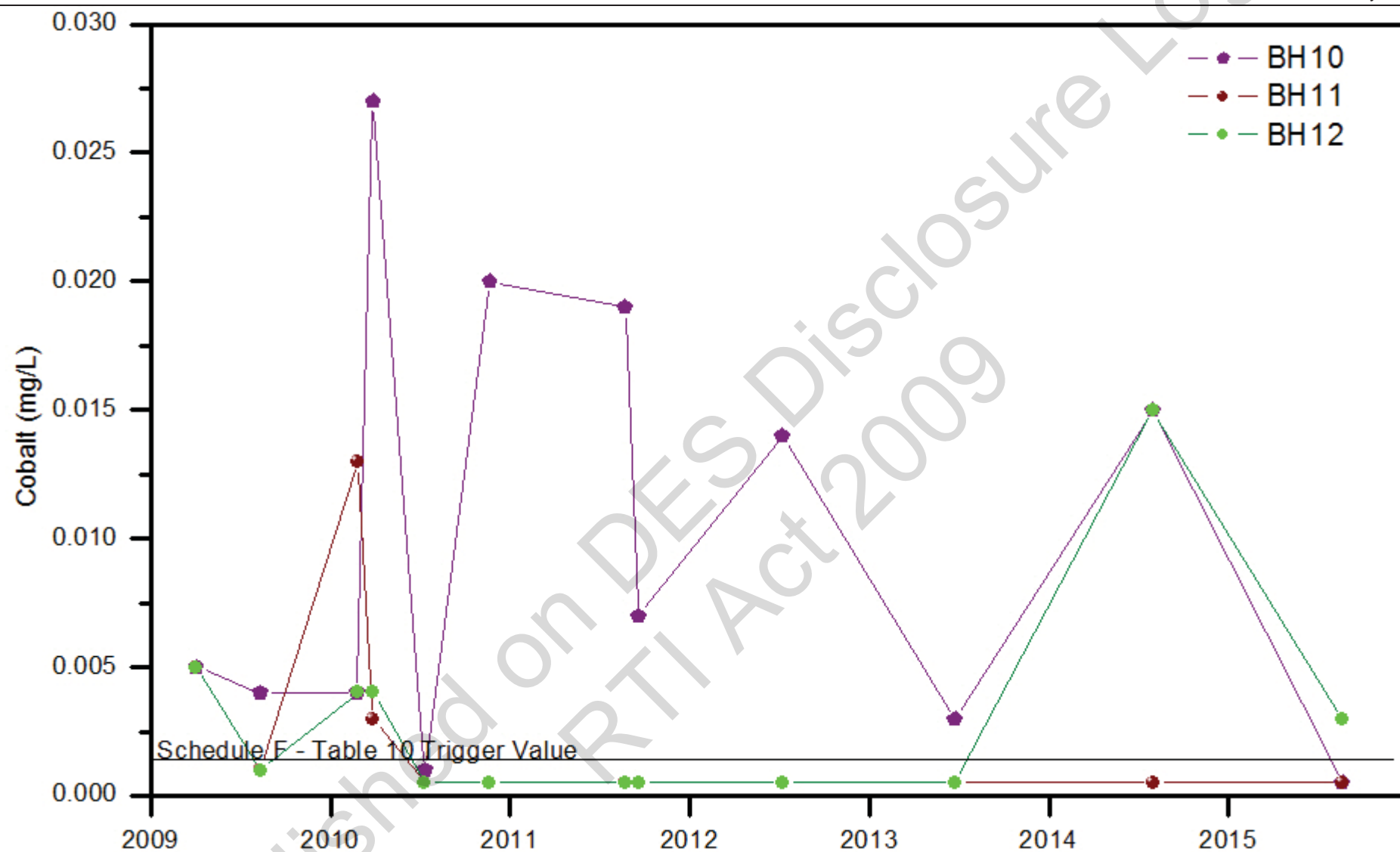


Figure 38: Content Pit Bores - Time Series Cobalt

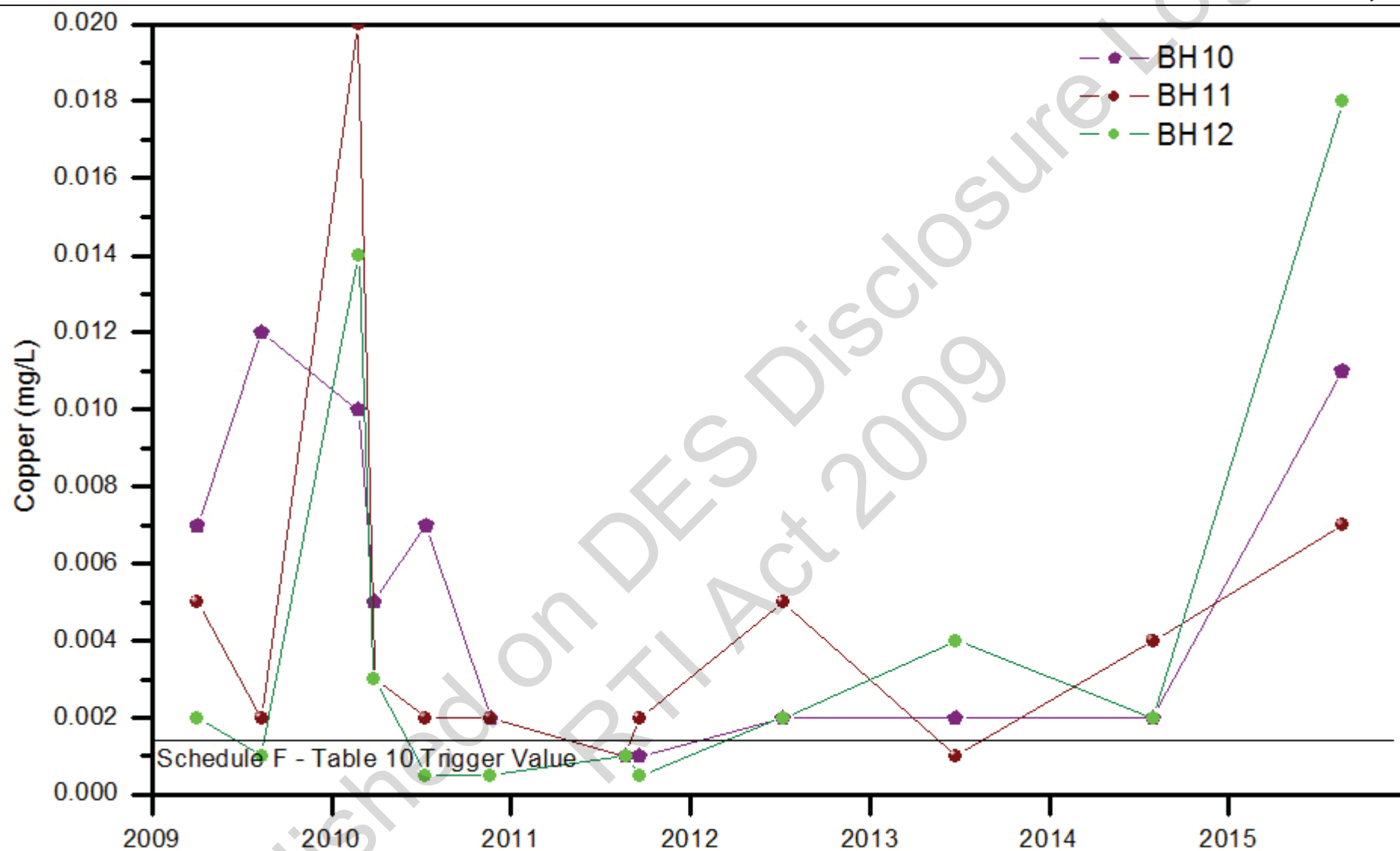


Figure 39: Content Pit Bores - Time Series Copper

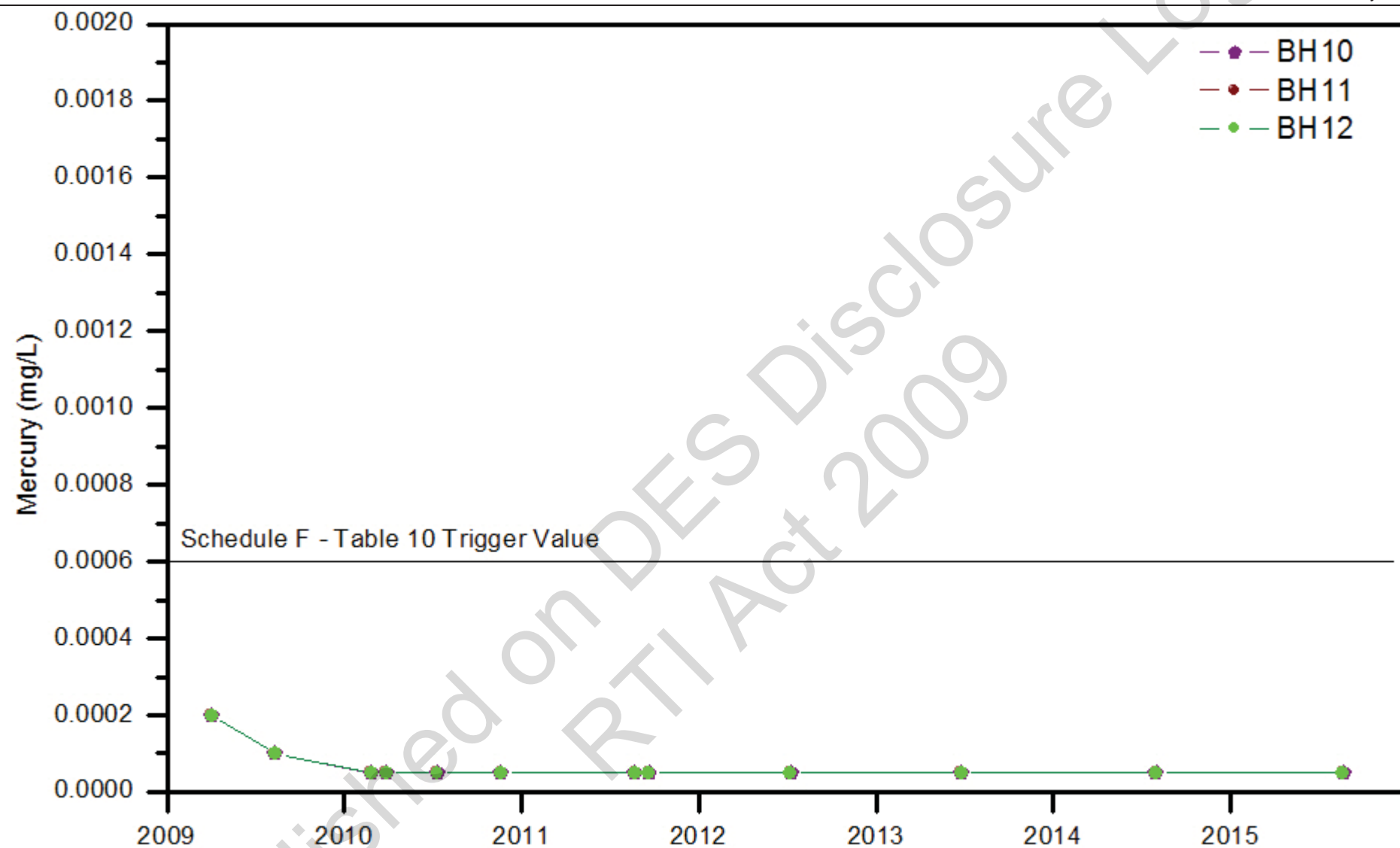


Figure 40: Content Pit Bores - Time Series Mercury

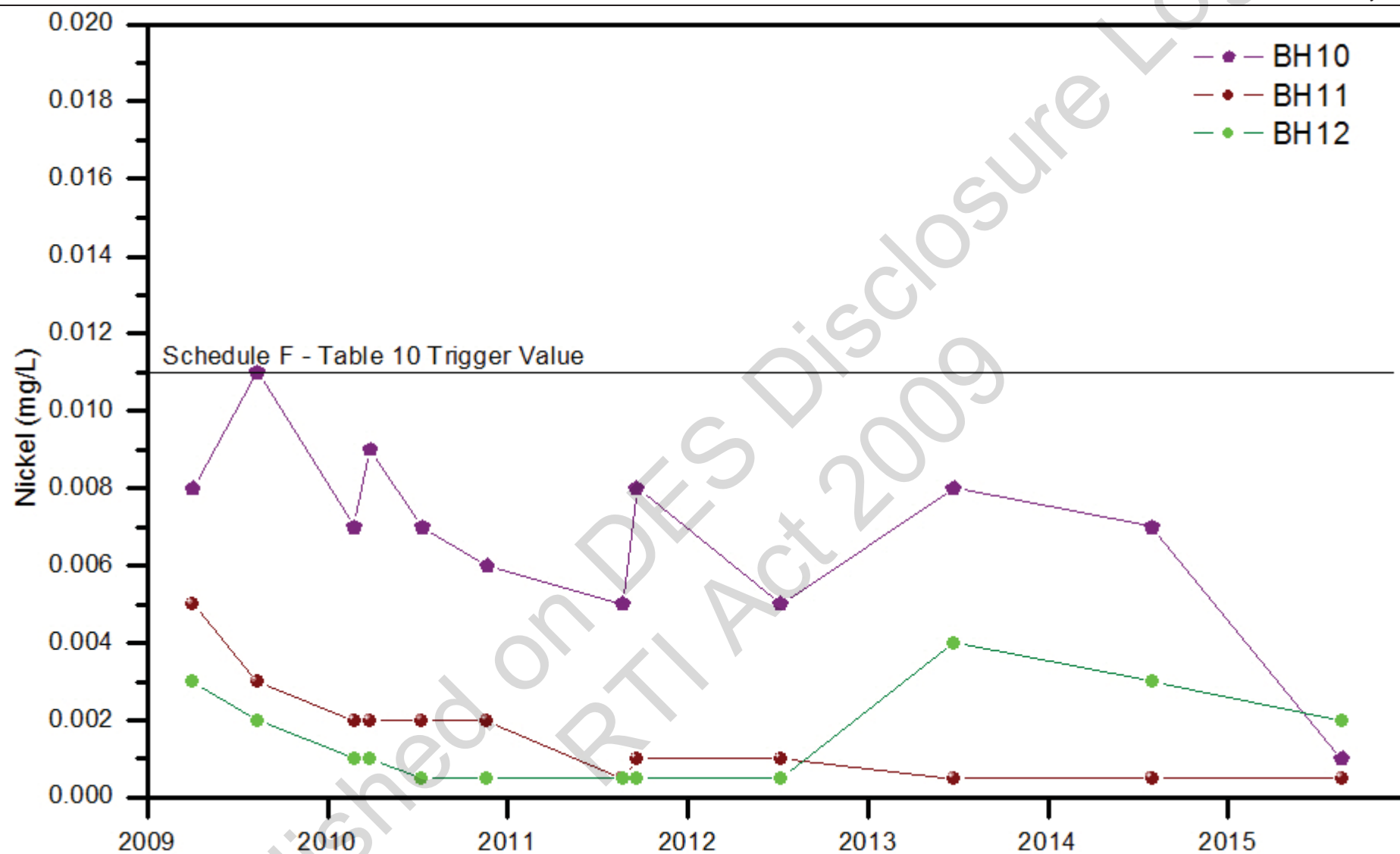


Figure 41: Content Pit Bores - Time Series Nickel

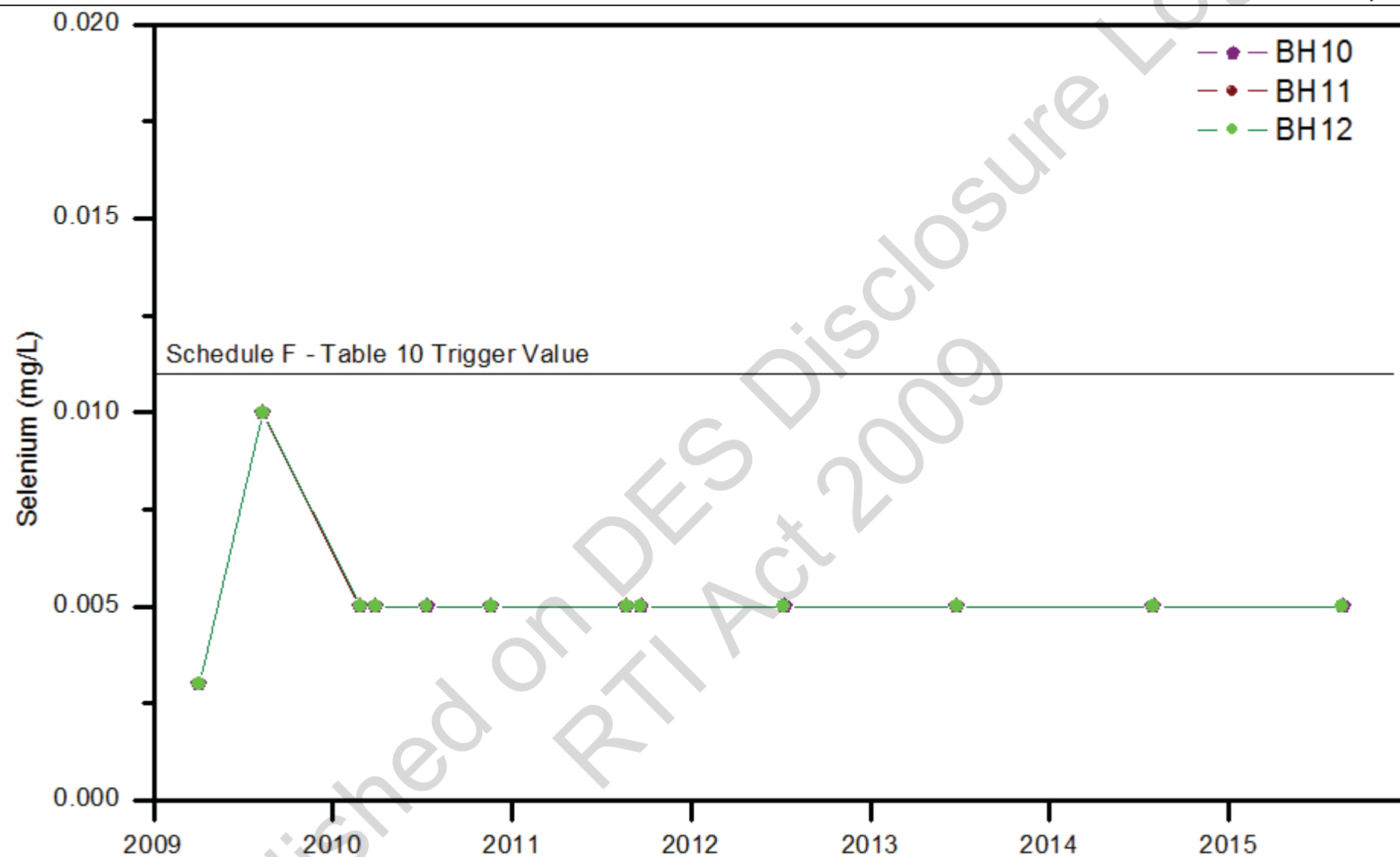


Figure 42: Content Pit Bores - Time Series Selenium

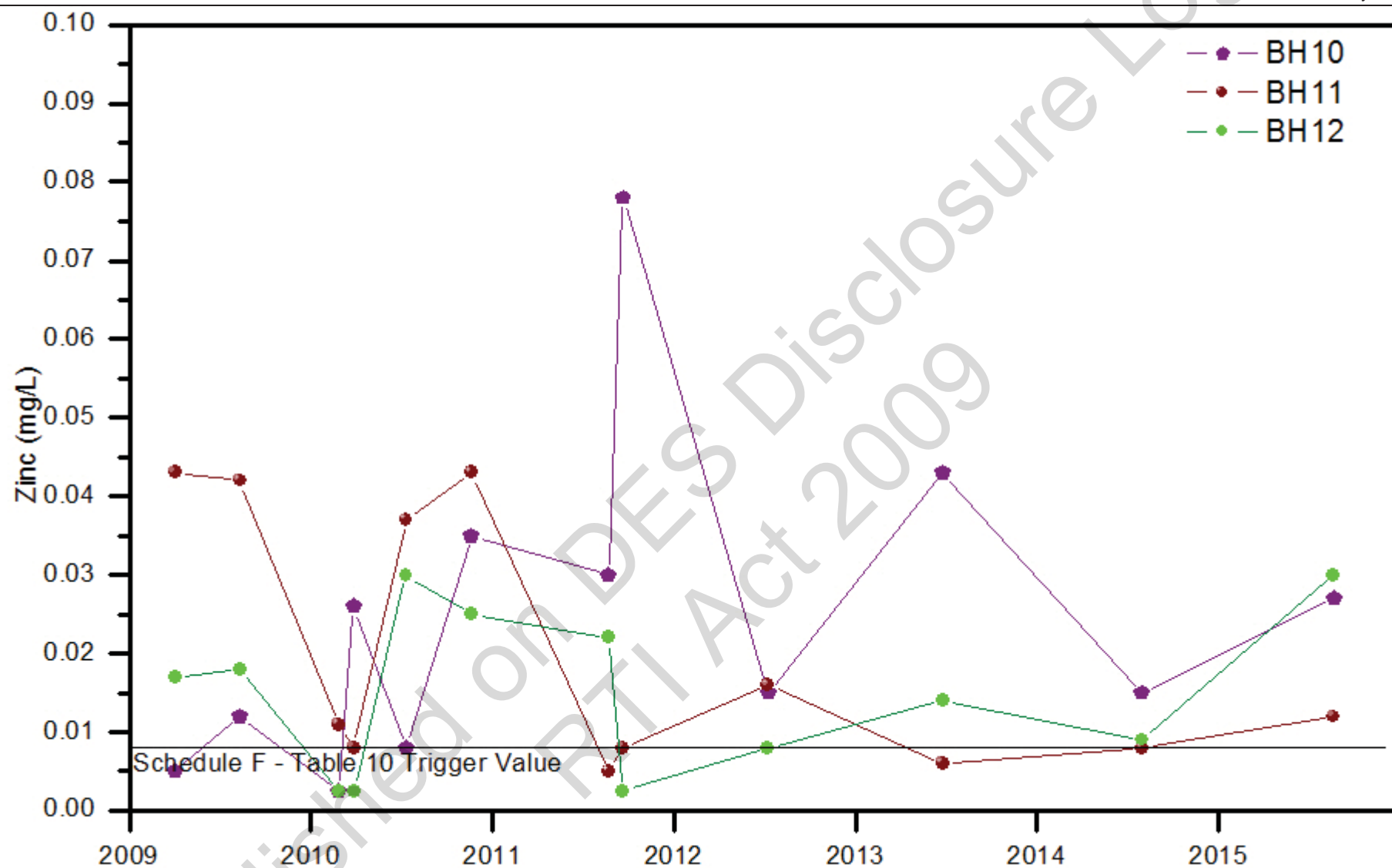


Figure 43: Content Pit Bores - Time Series Zinc

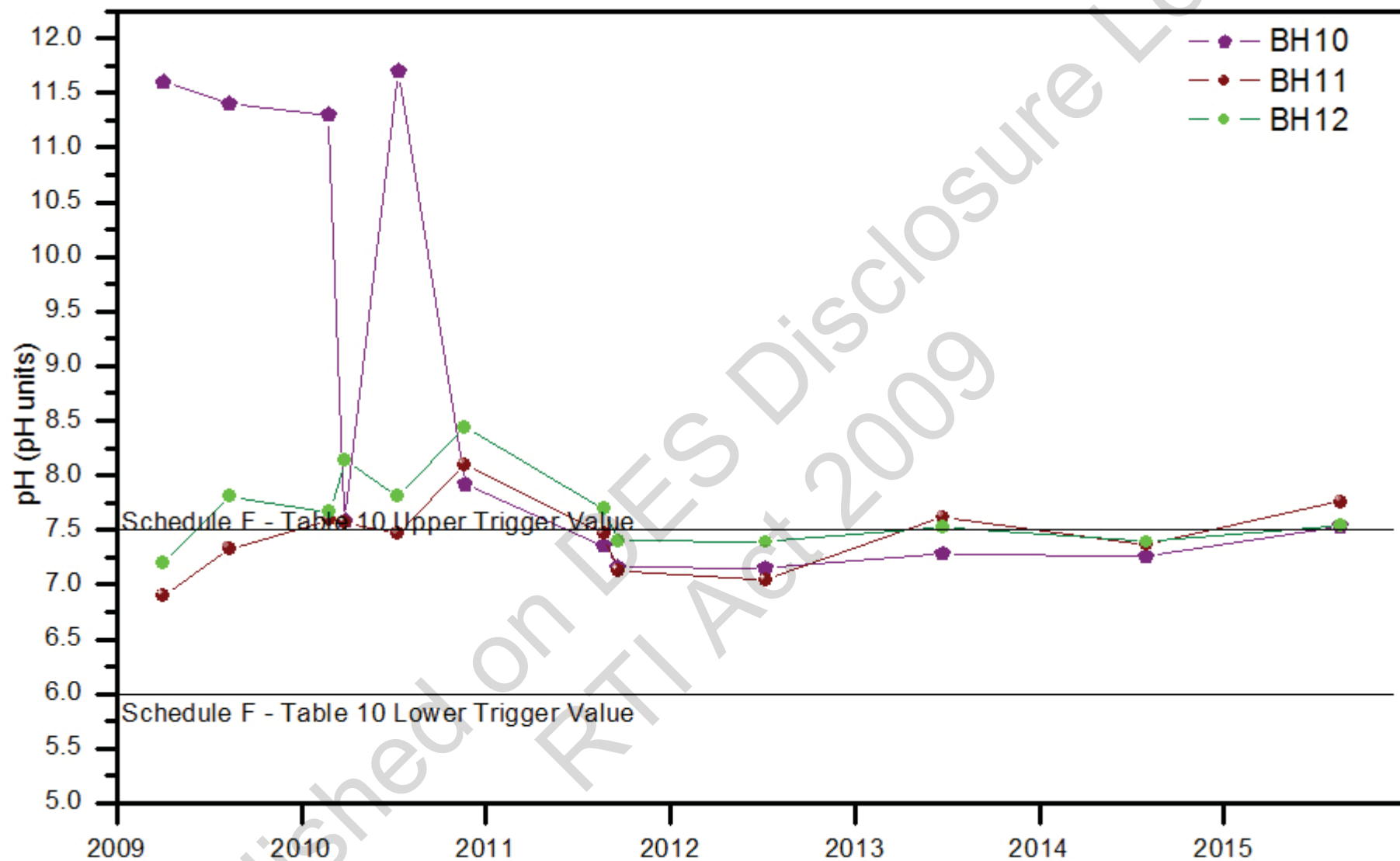


Figure 44: Content Pit Bores - Time Series pH

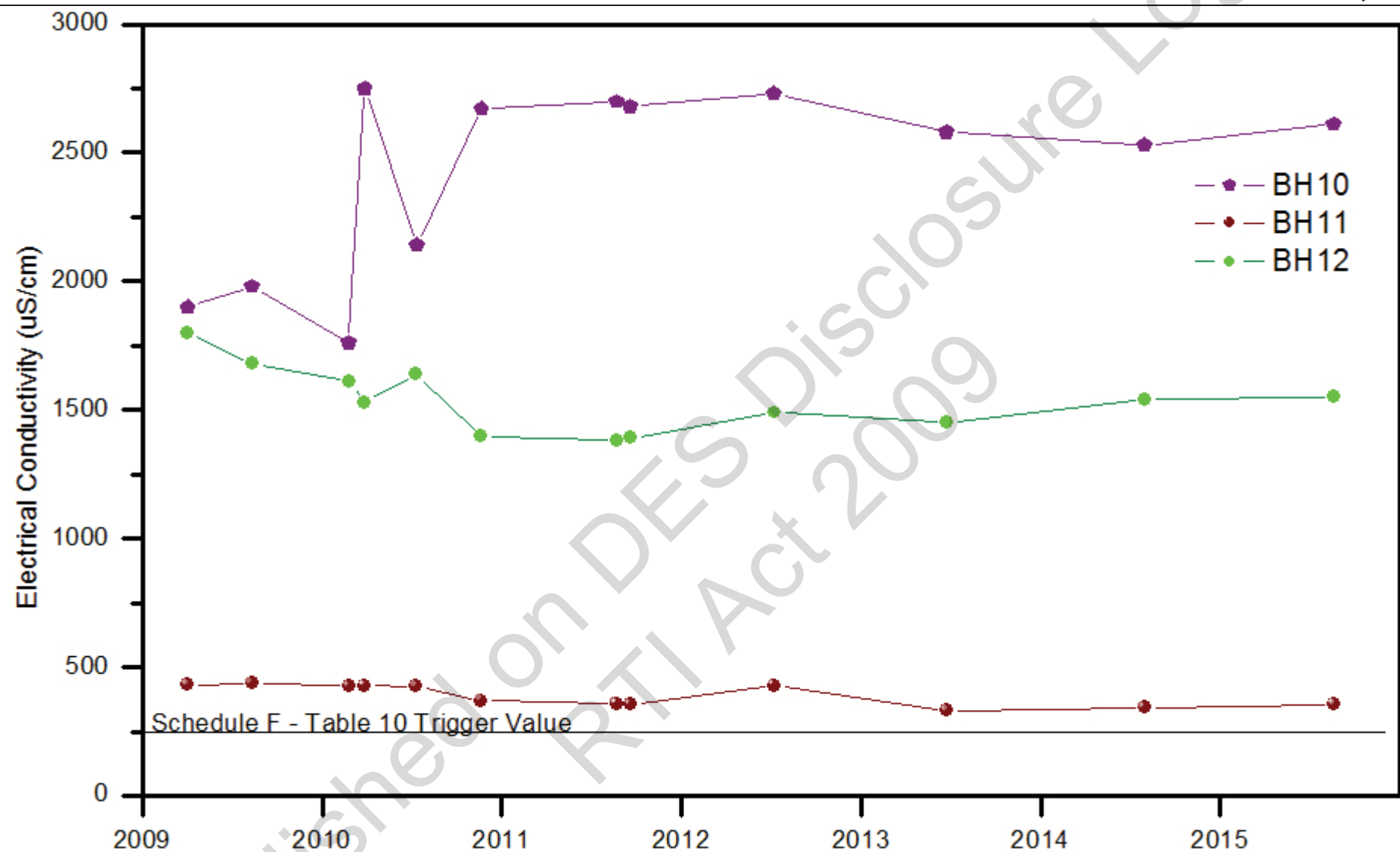


Figure 45: Content Pit Bores - Time Series E.C

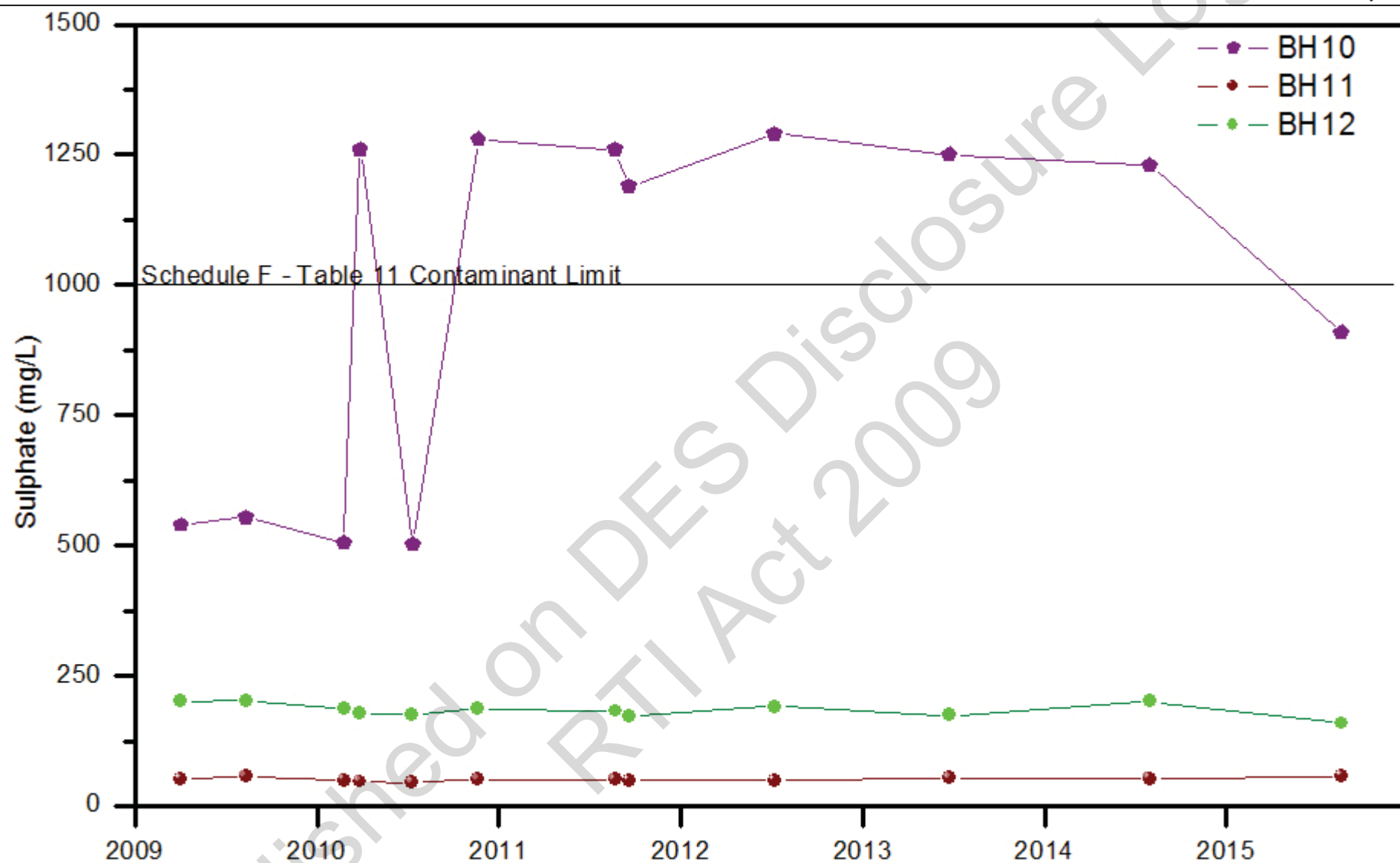


Figure 46: Content Pit Bores - Time Series Sulfate

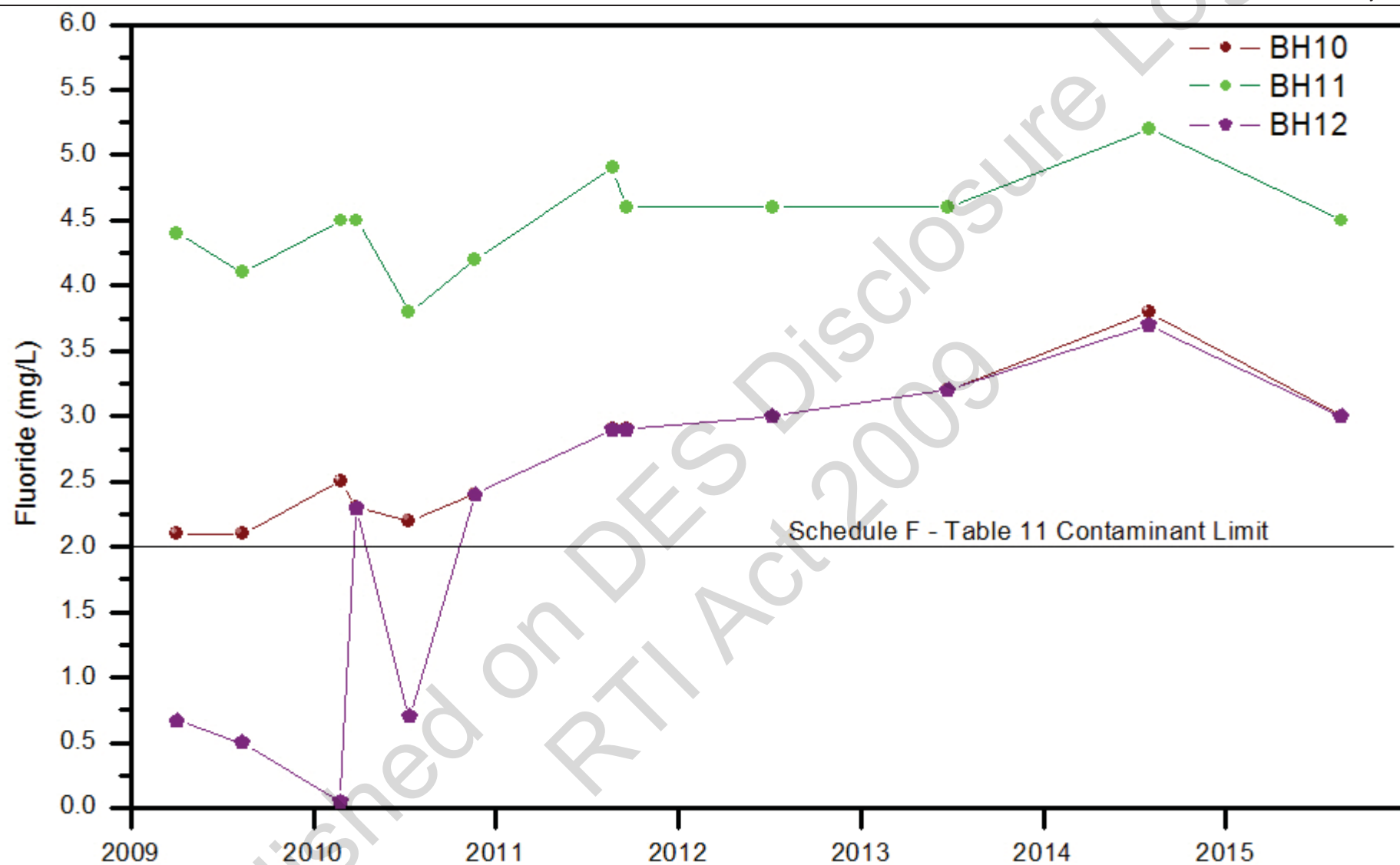


Figure 47: Content Pit Bores - Time Series Fluoride

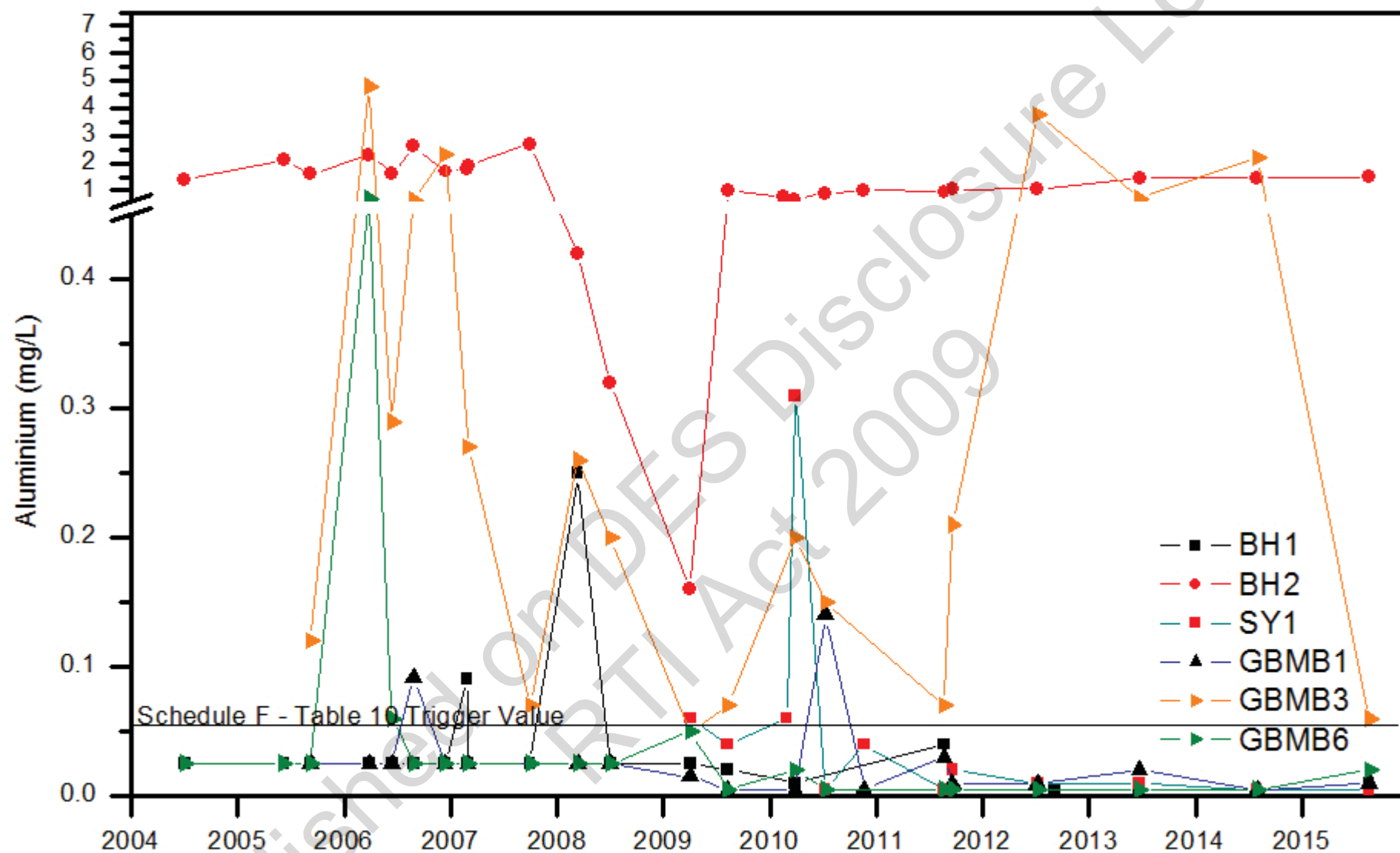


Figure 48: Golden Butterfly Pit Bores - Time Series Aluminium

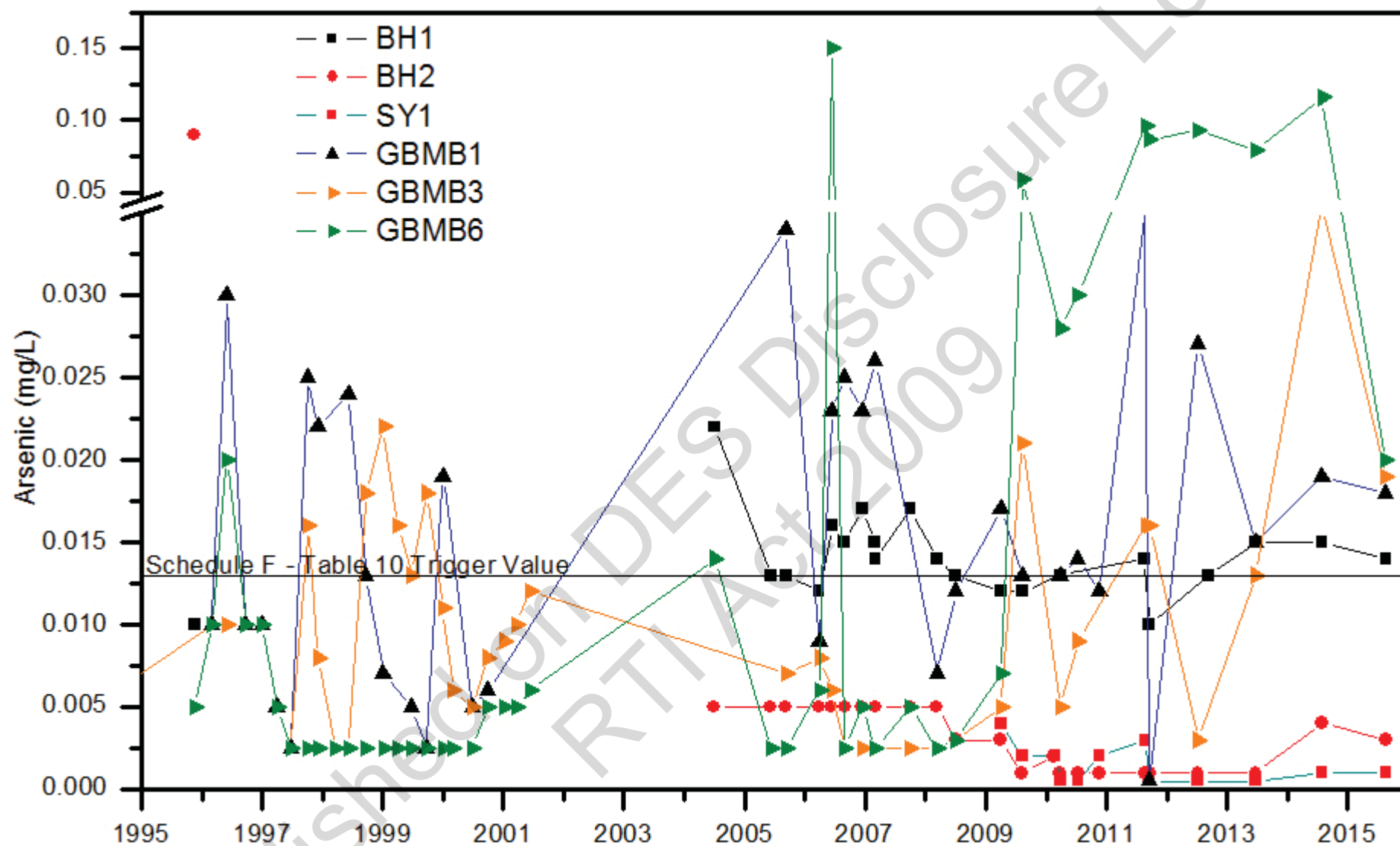


Figure 49: Golden Butterfly Pit Bores - Time Series Arsenic

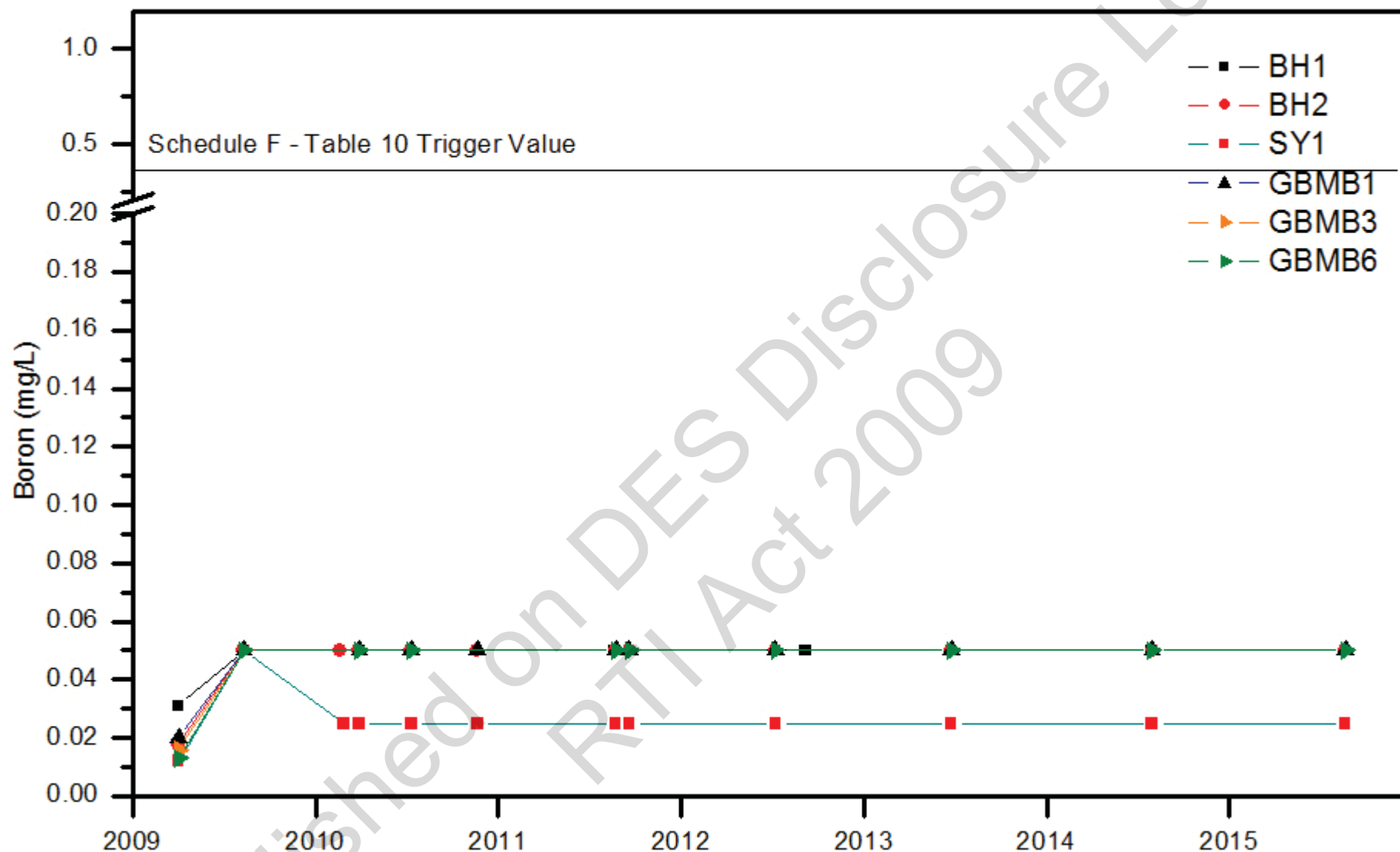


Figure 50: Golden Butterfly Pit Bores - Time Series Boron

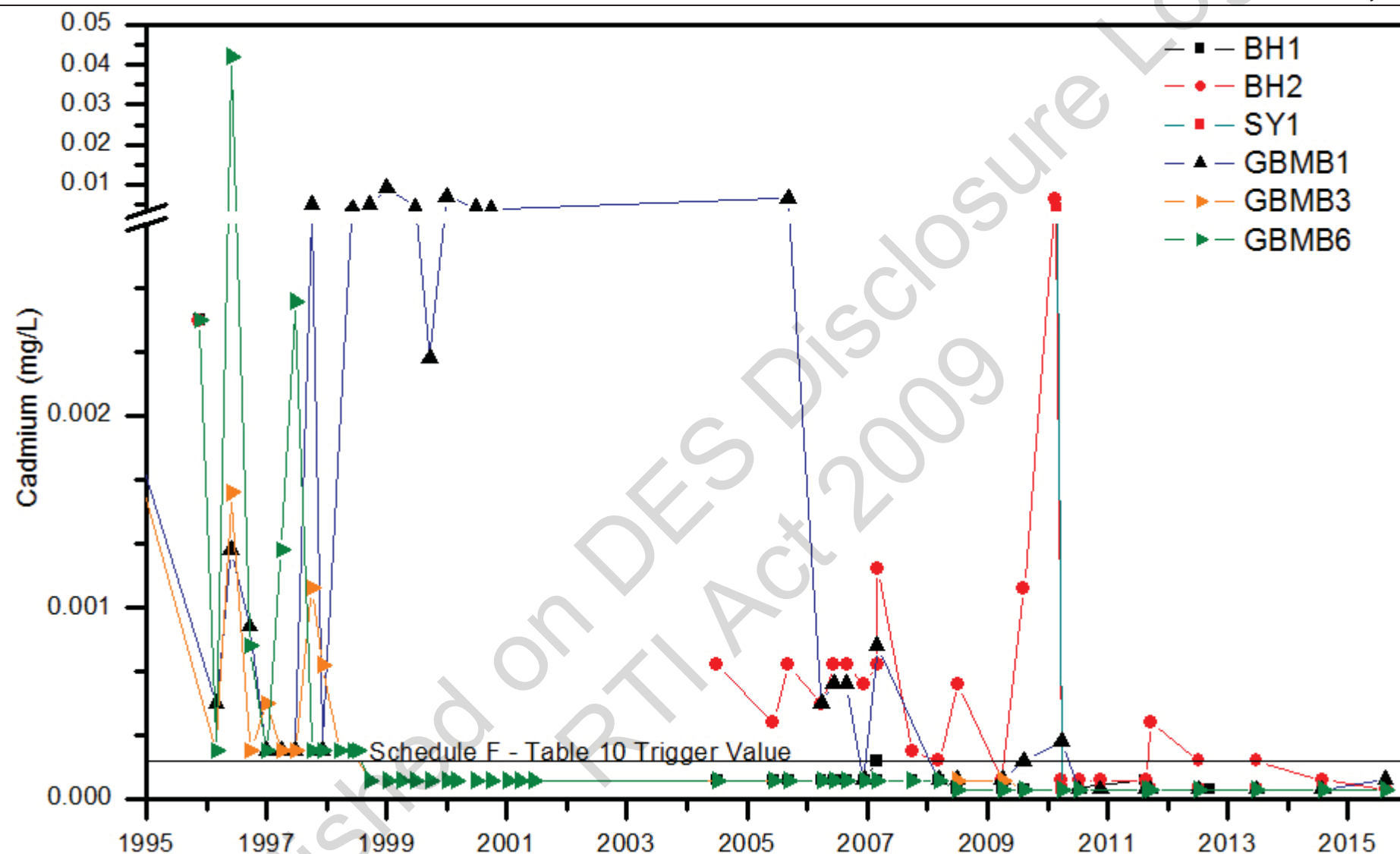


Figure 51: Golden Butterfly Pit Bores - Time Series Cadmium

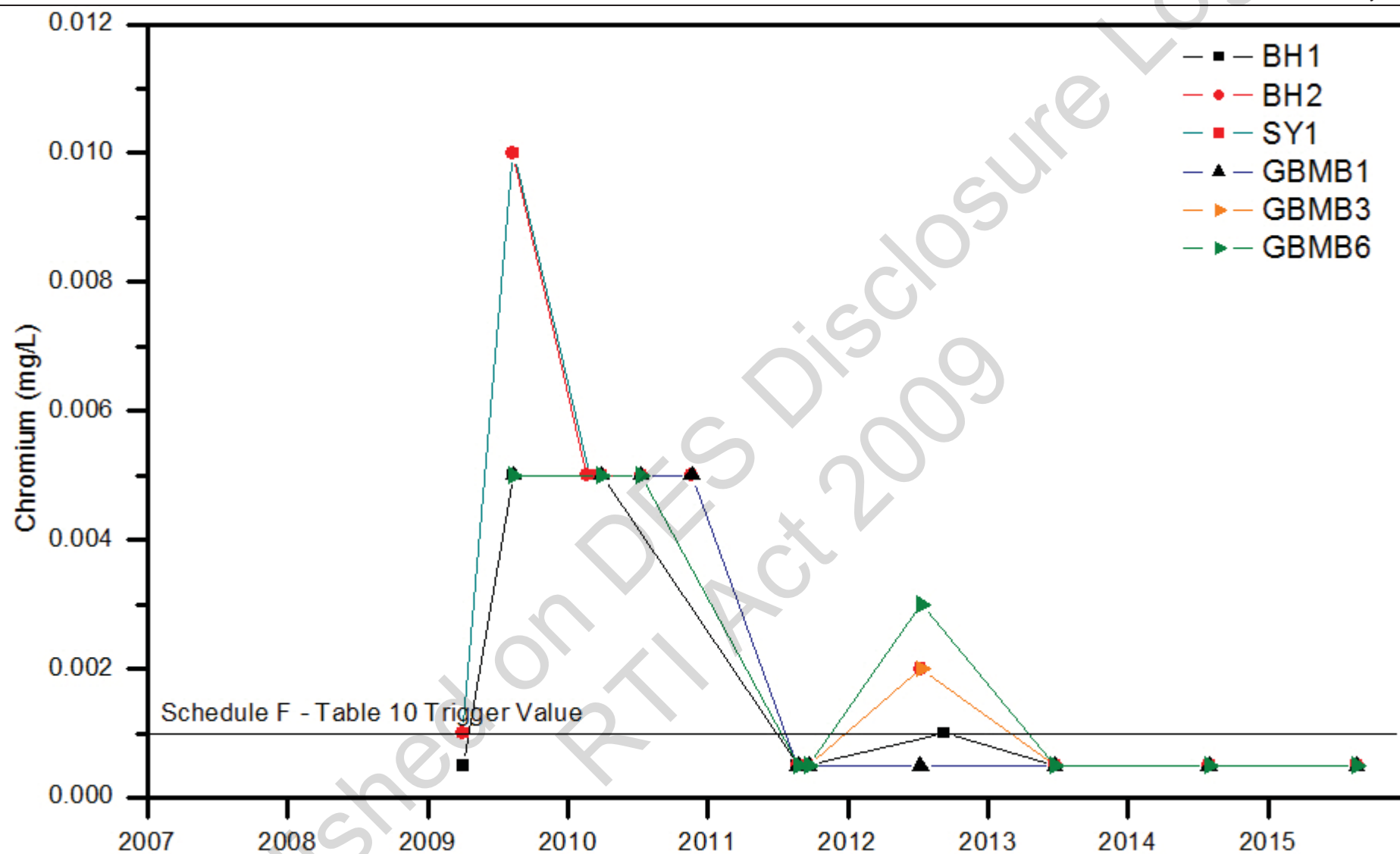


Figure 52: Golden Butterfly Pit Bores - Time Series Chromium

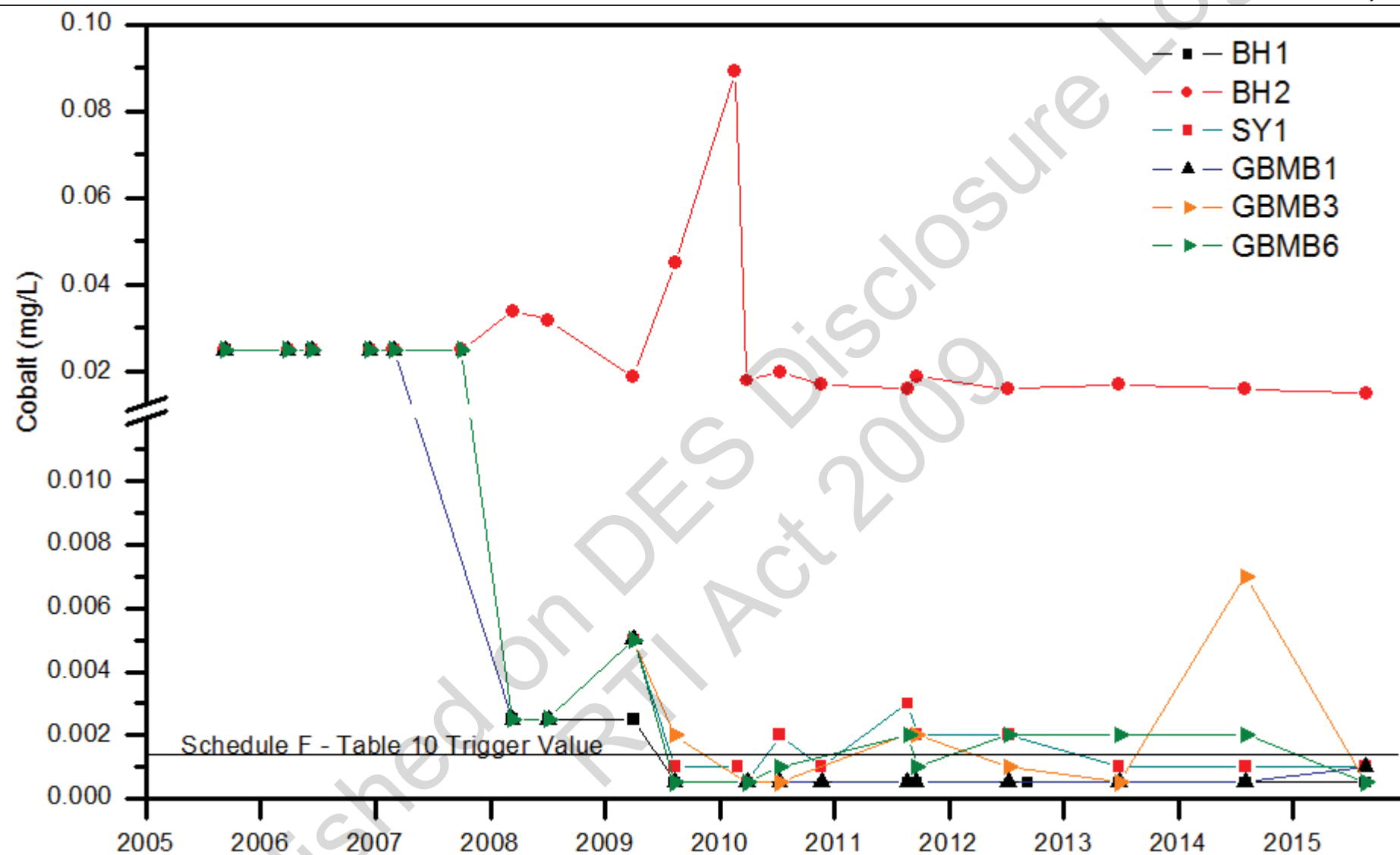


Figure 53: Golden Butterfly Pit Bores - Time Series Cobalt

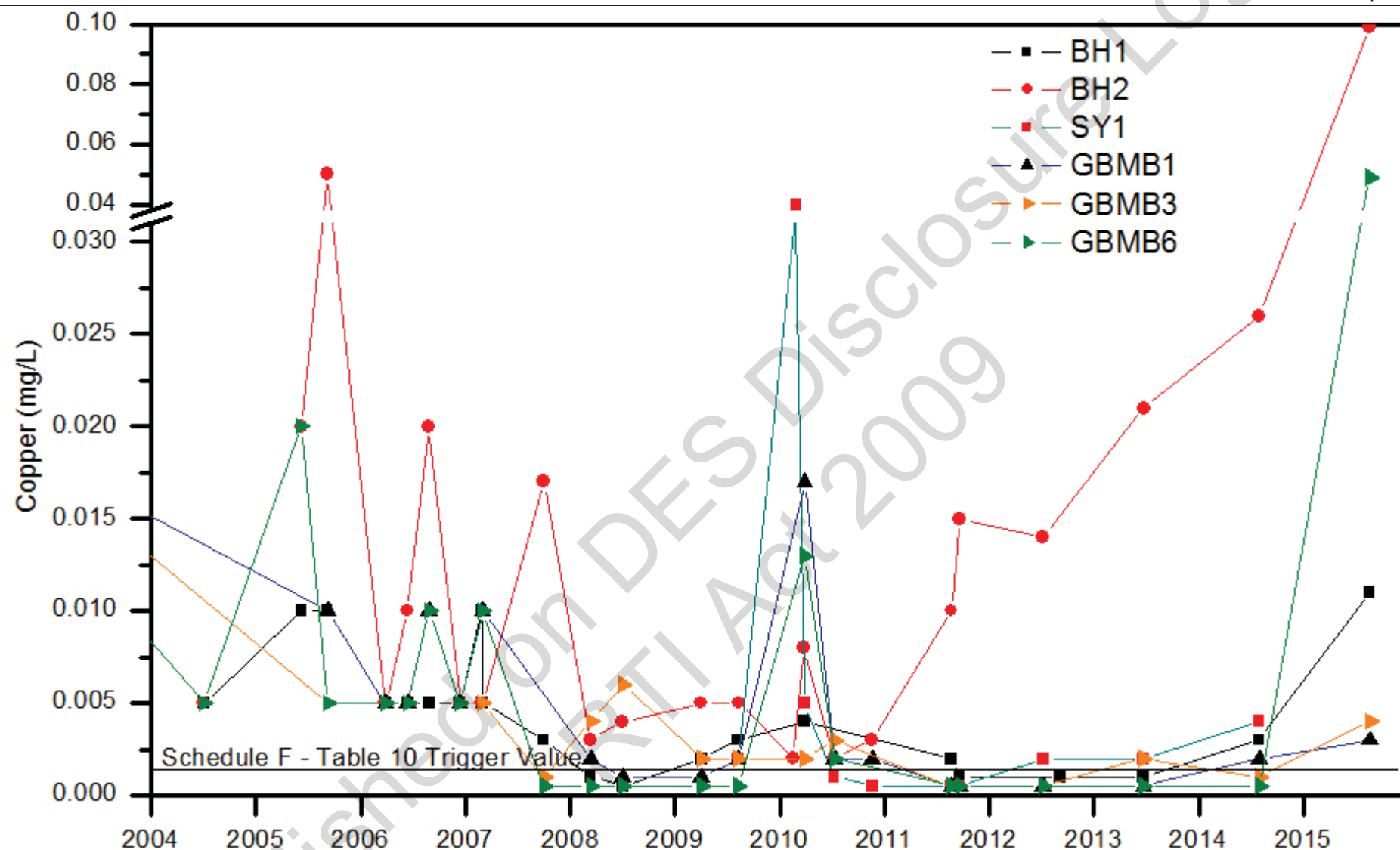


Figure 54: Golden Butterfly Pit Bores - Time Series Copper

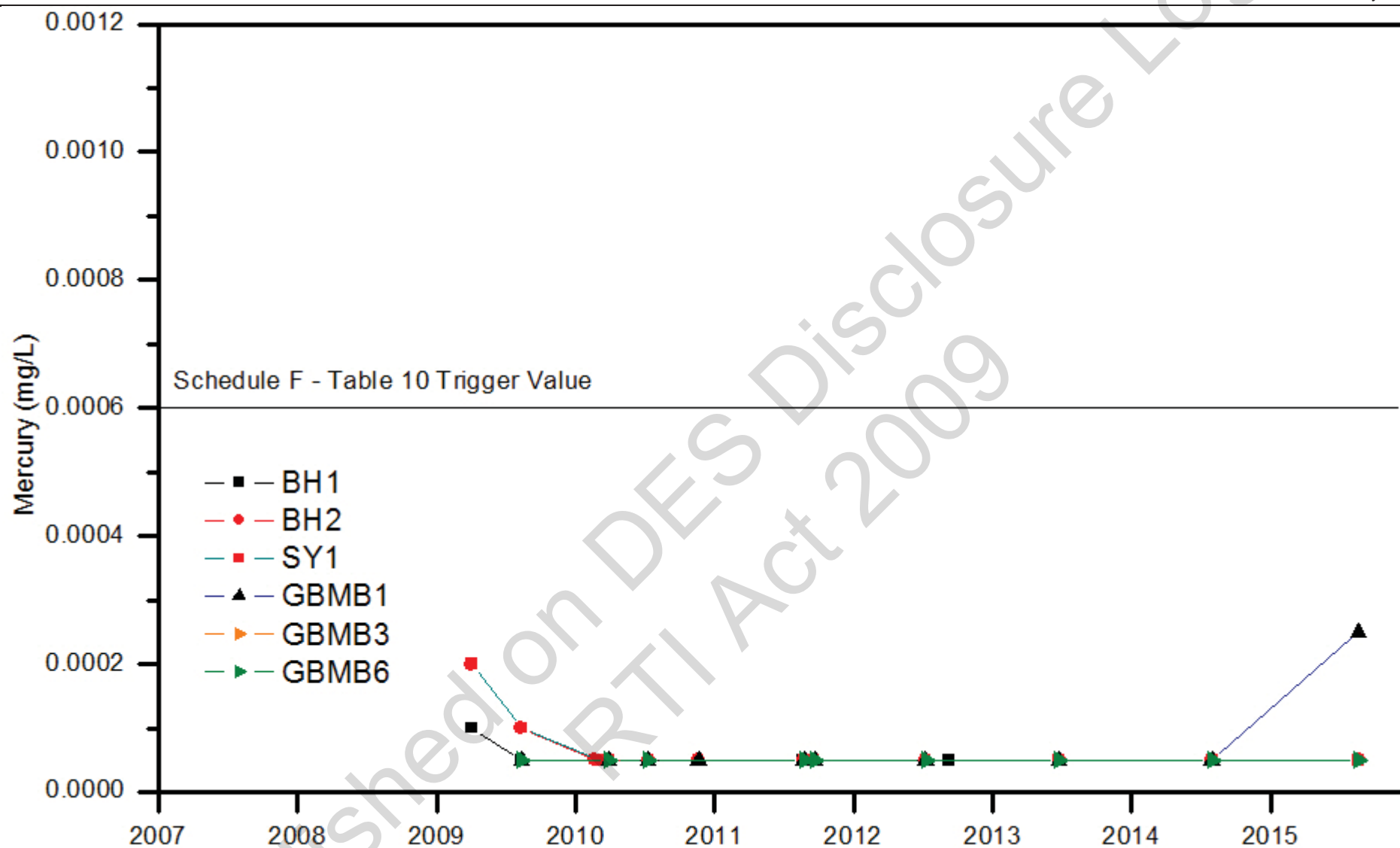


Figure 55: Golden Butterfly Pit Bores - Time Series Mercury

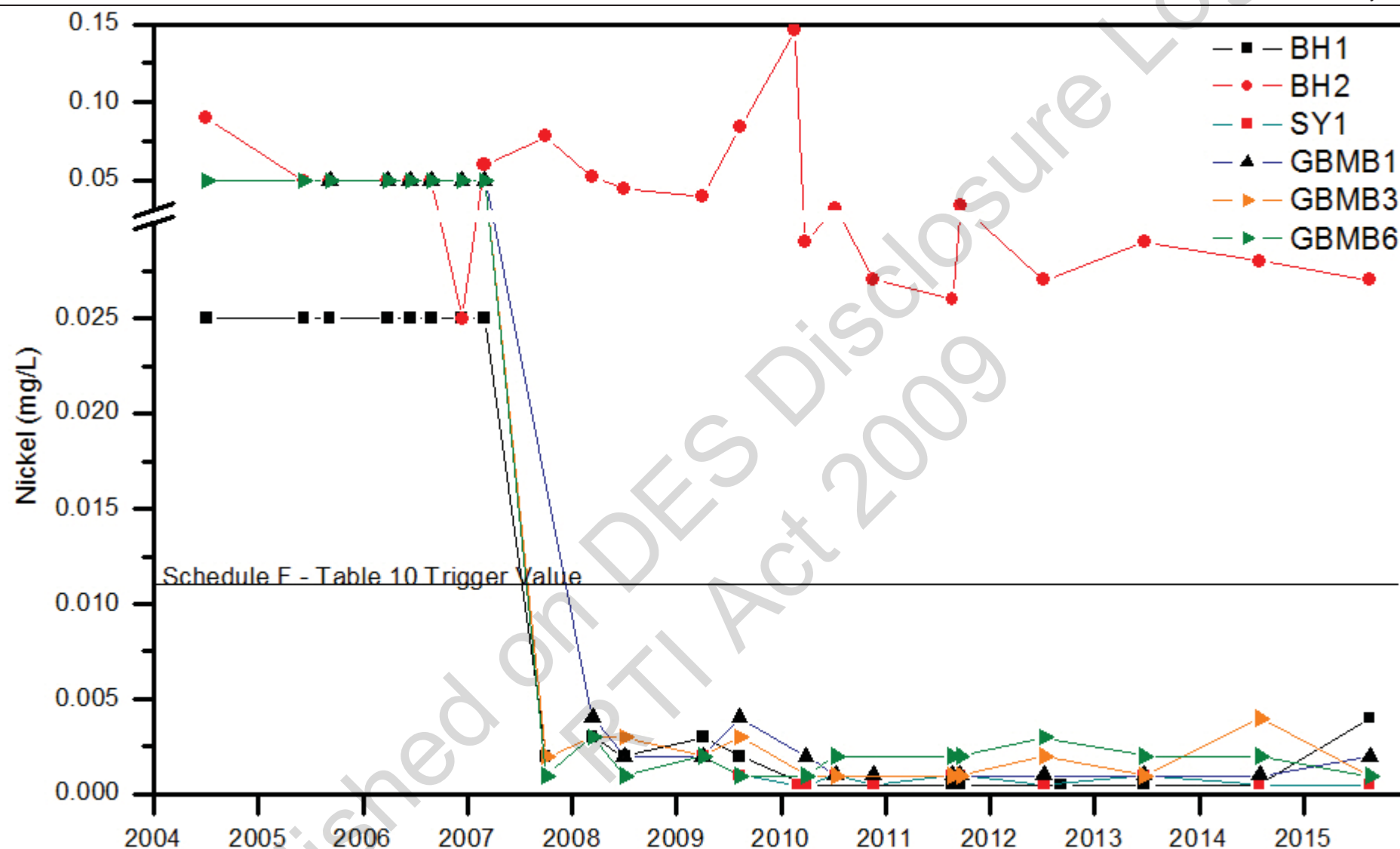


Figure 56: Golden Butterfly Pit Bores - Time Series Nickel

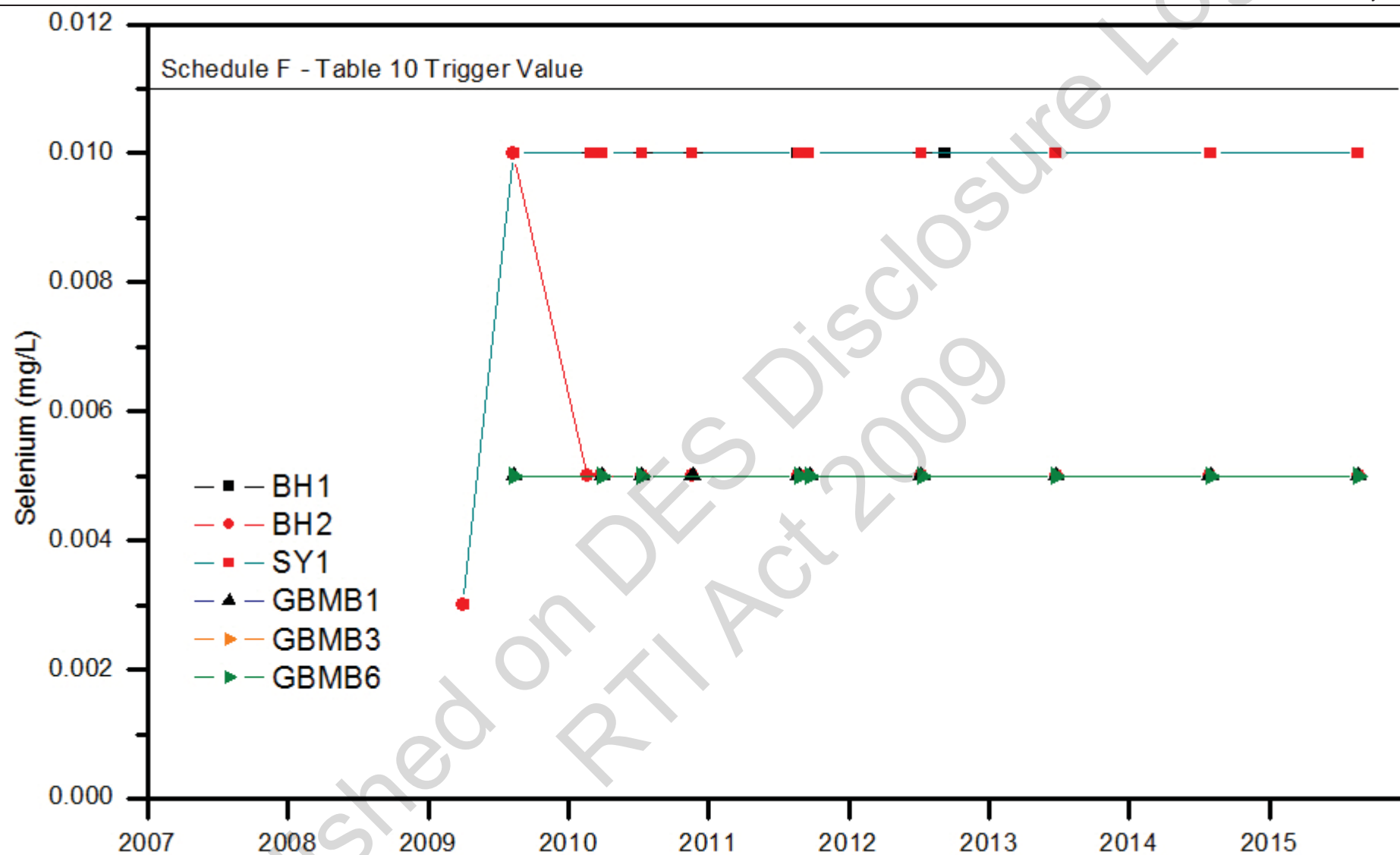


Figure 57: Golden Butterfly Pit Bores - Time Series Selenium

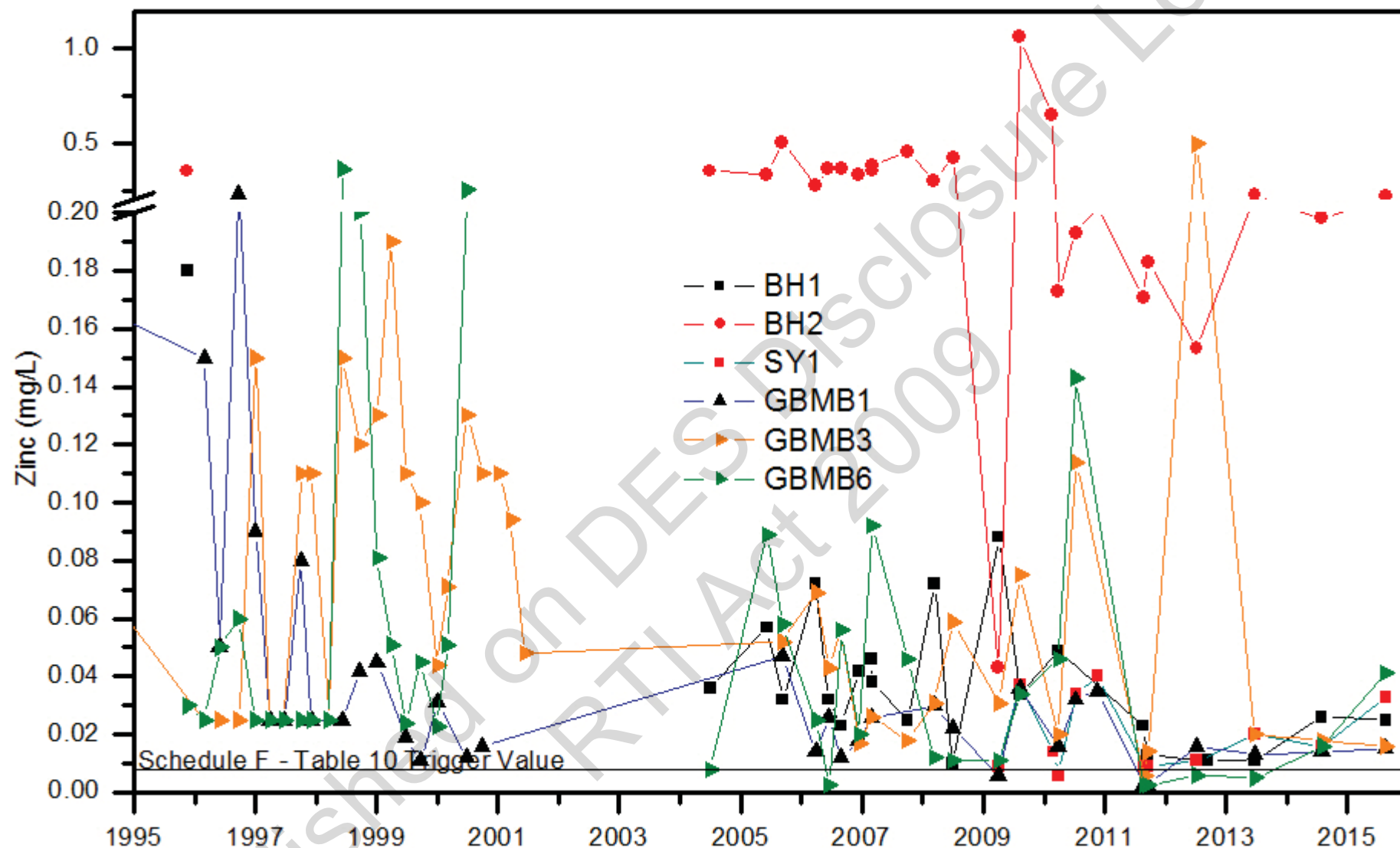


Figure 58: Golden Butterfly Pit Bores - Time Series Zinc

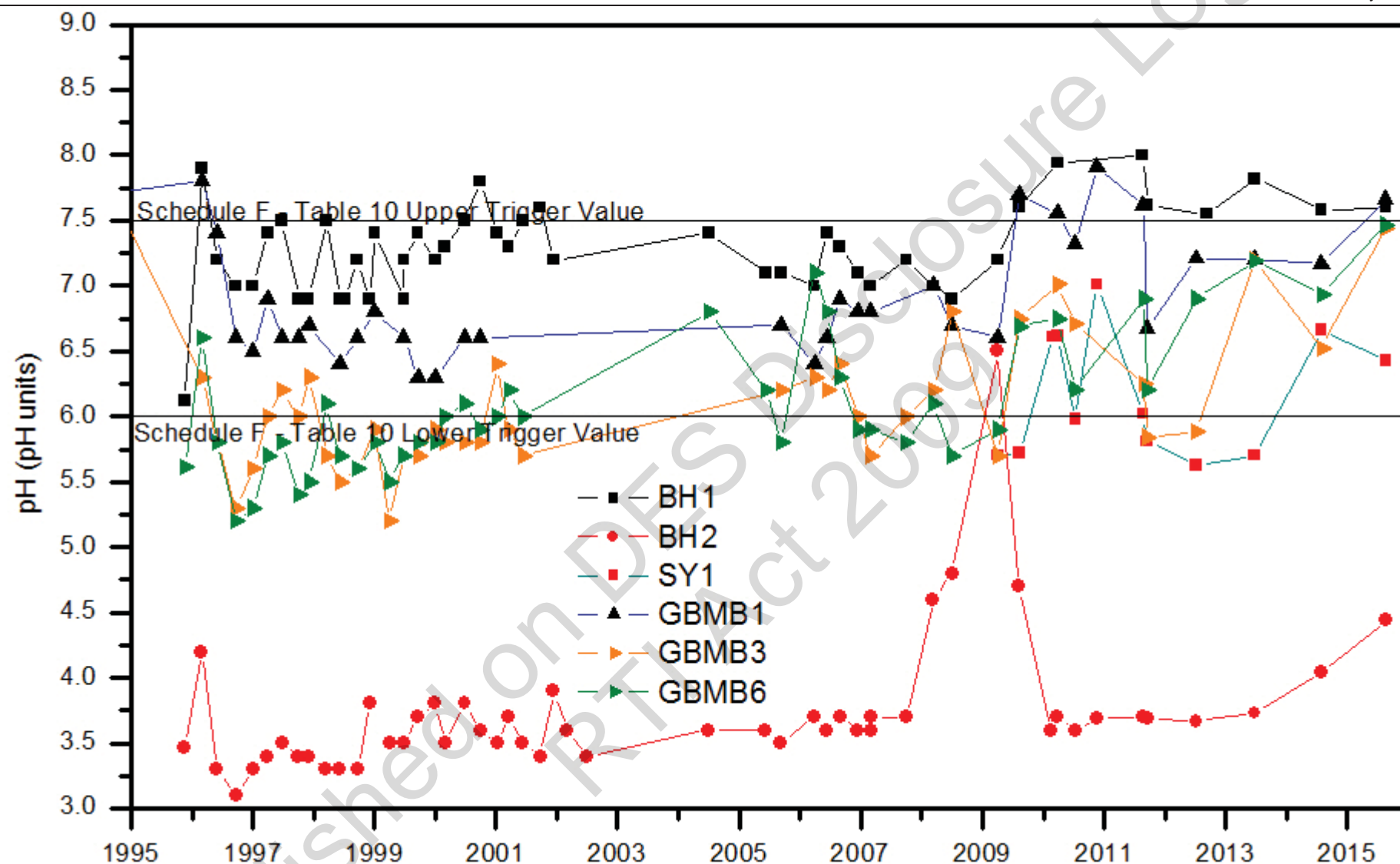


Figure 59: Golden Butterfly Pit Bores - Time Series pH

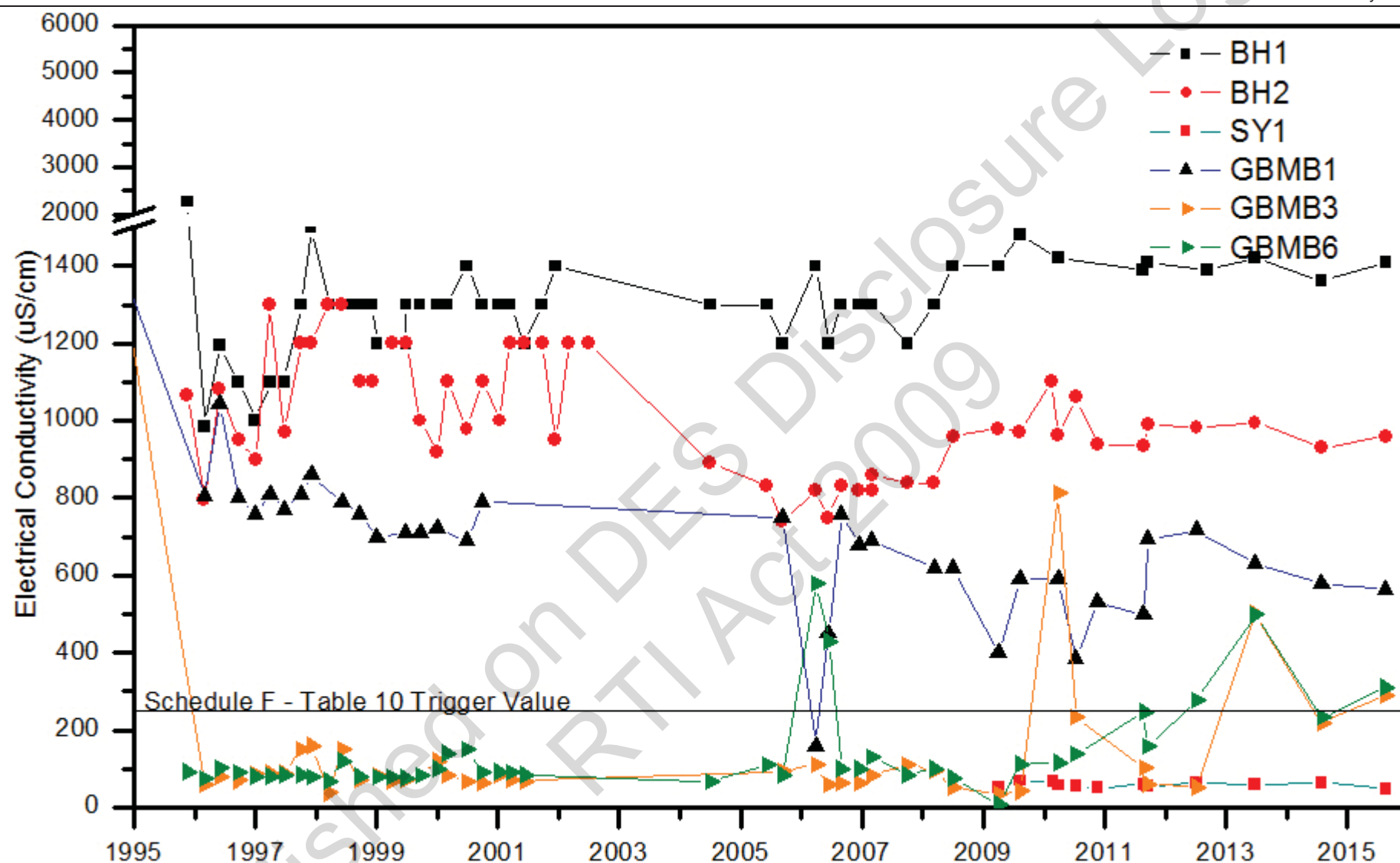


Figure 60: Golden Butterfly Pit Bores - Time Series E.C

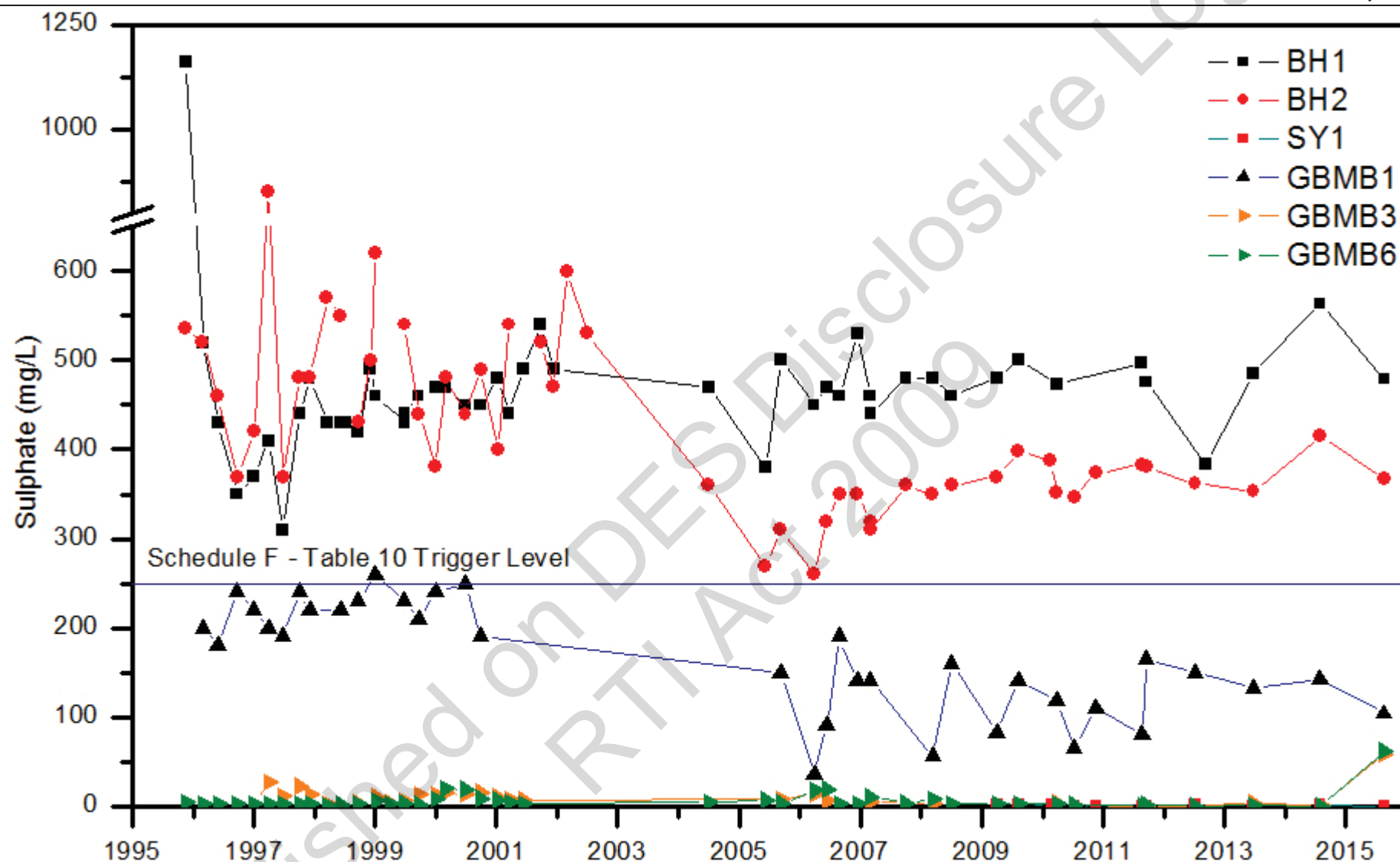


Figure 61: Golden Butterfly Pit Bores - Time Series Sulfate

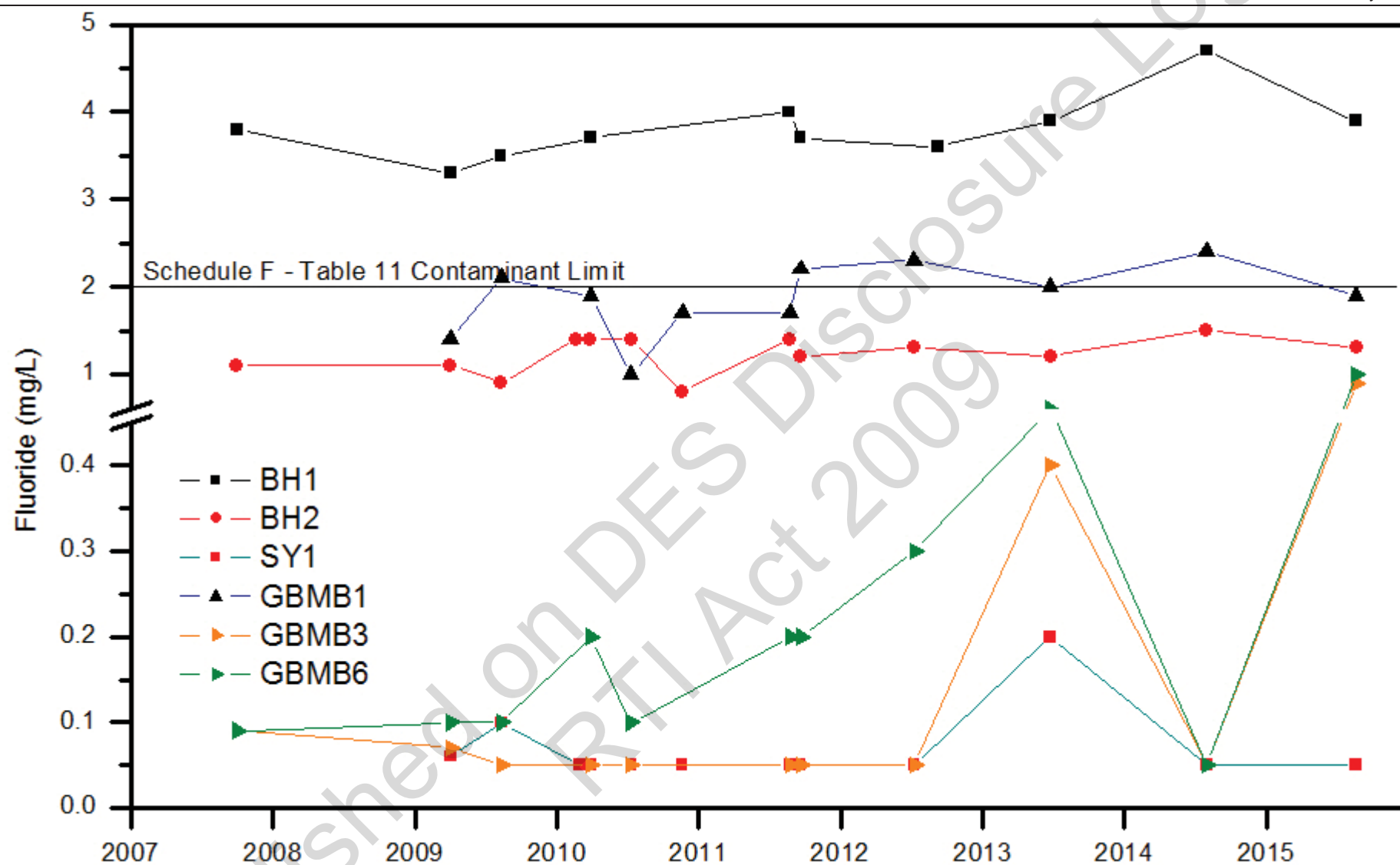


Figure 62: Golden Butterfly Pit Bores - Time Series Fluoride

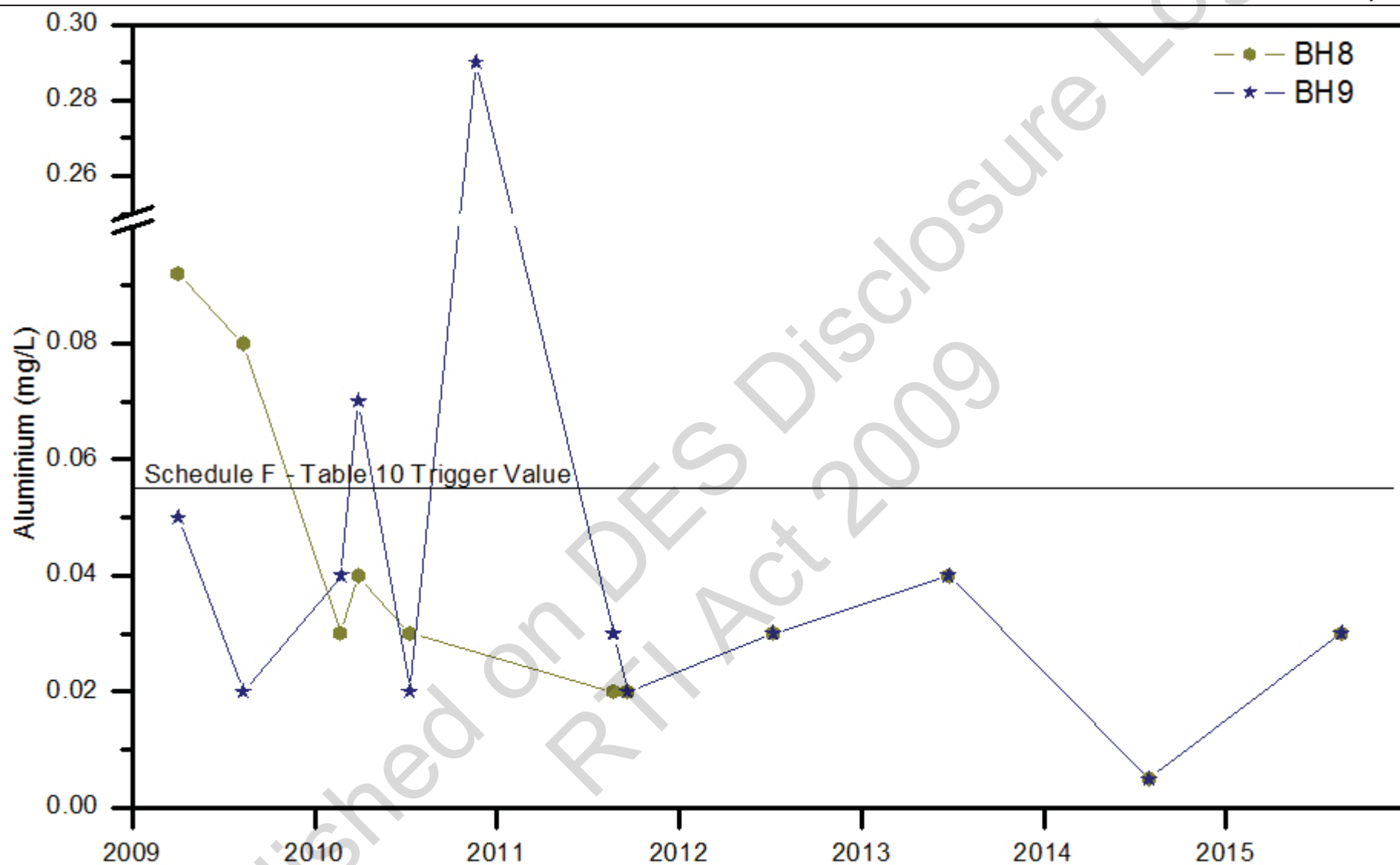


Figure 63: Golden Butterfly North Pit Bores - Time Series Aluminium

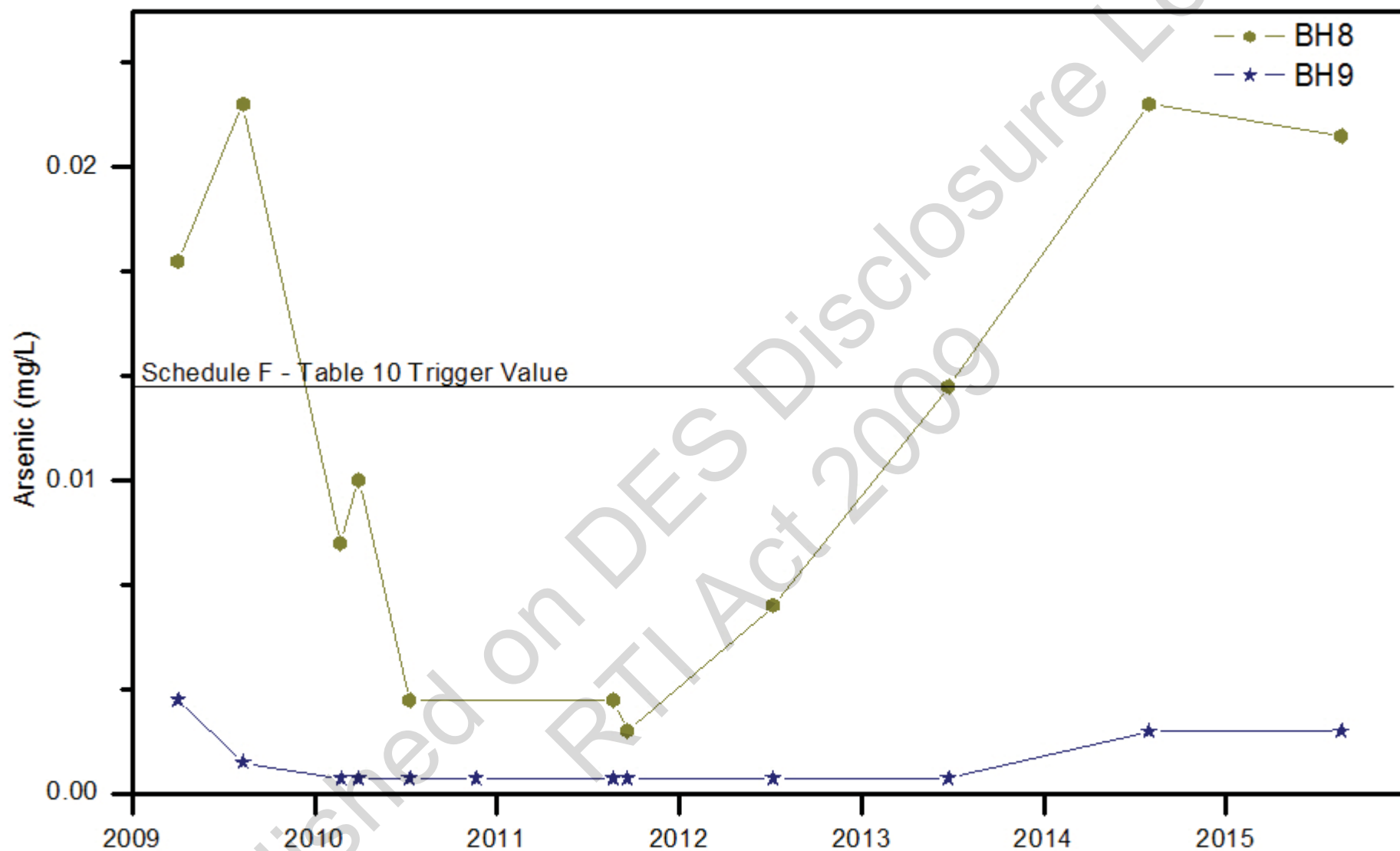


Figure 64: Golden Butterfly North Pit Bores - Time Series Arsenic

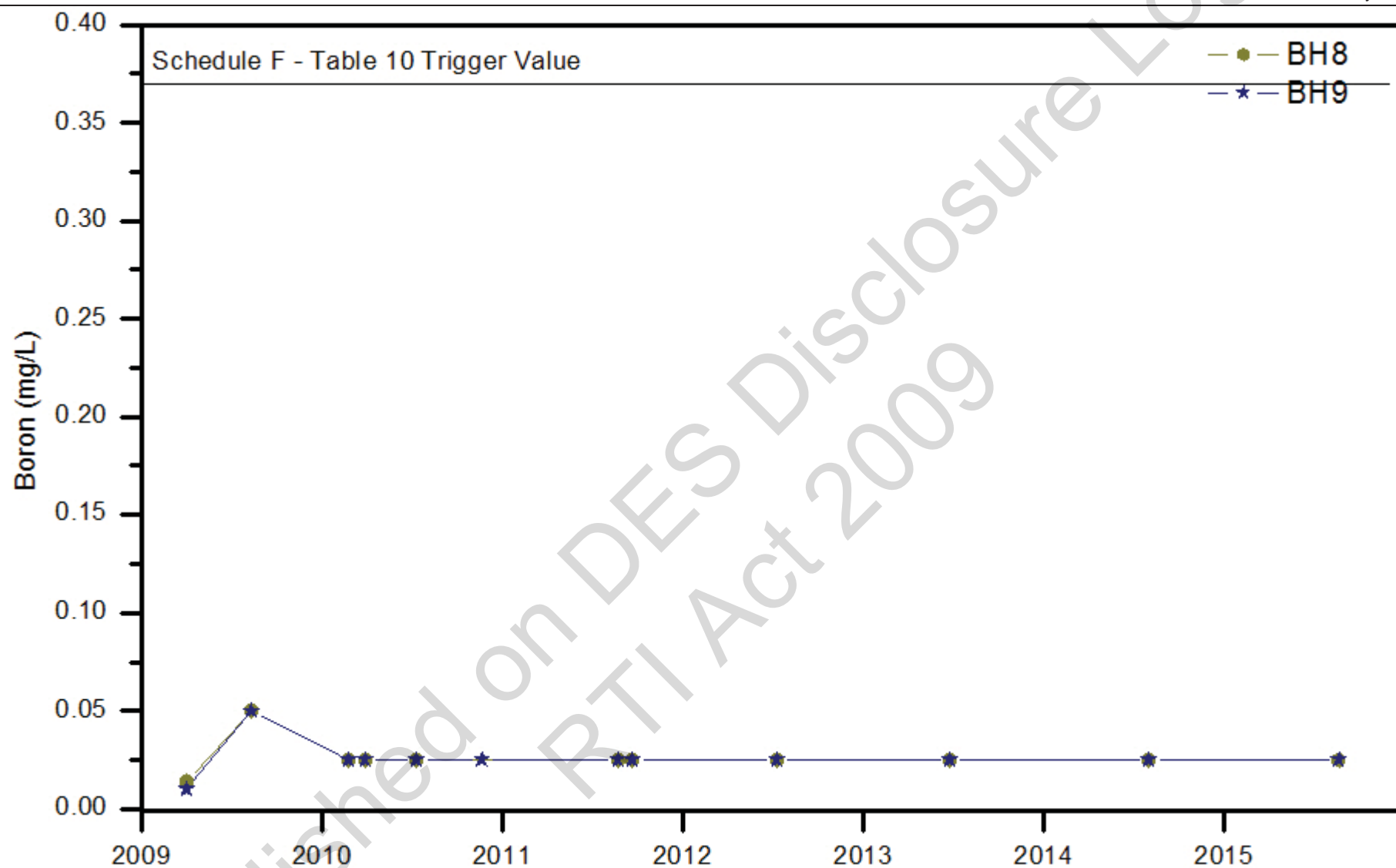


Figure 65: Golden Butterfly North Pit Bores - Time Series Boron

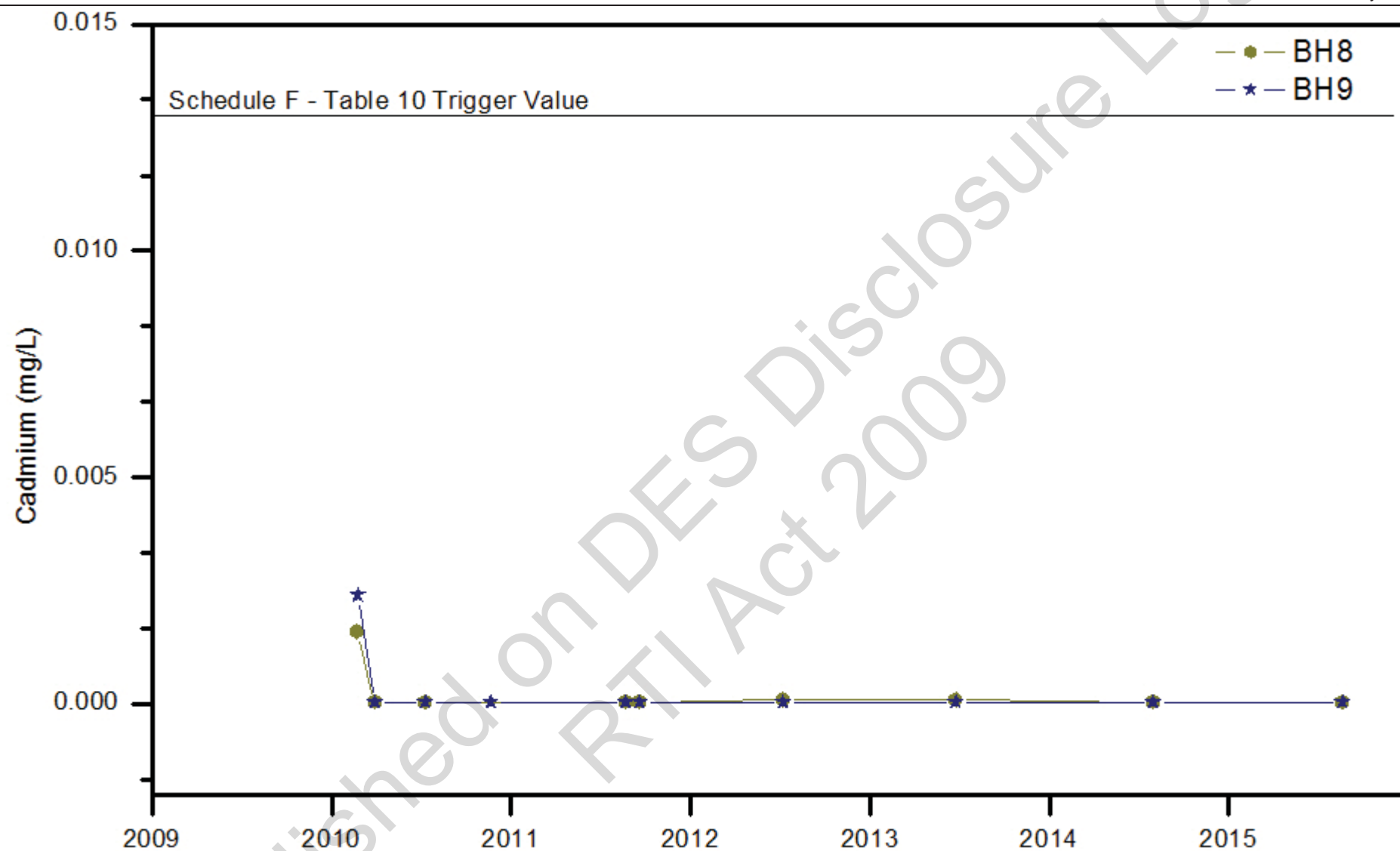


Figure 66: Golden Butterfly North Pit Bores - Time Series Cadmium

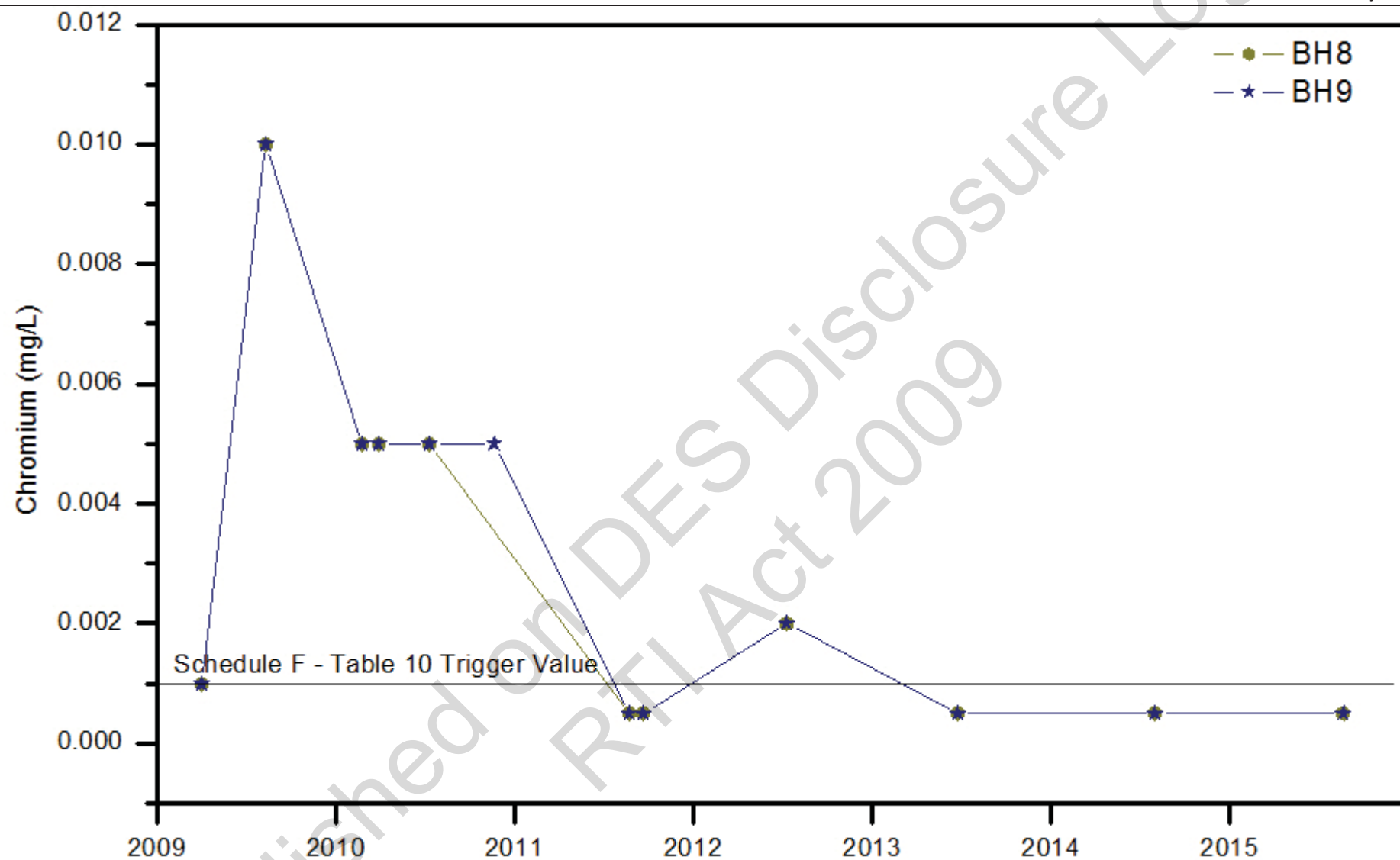


Figure 67: Golden Butterfly North Pit Bores - Time Series Chromium

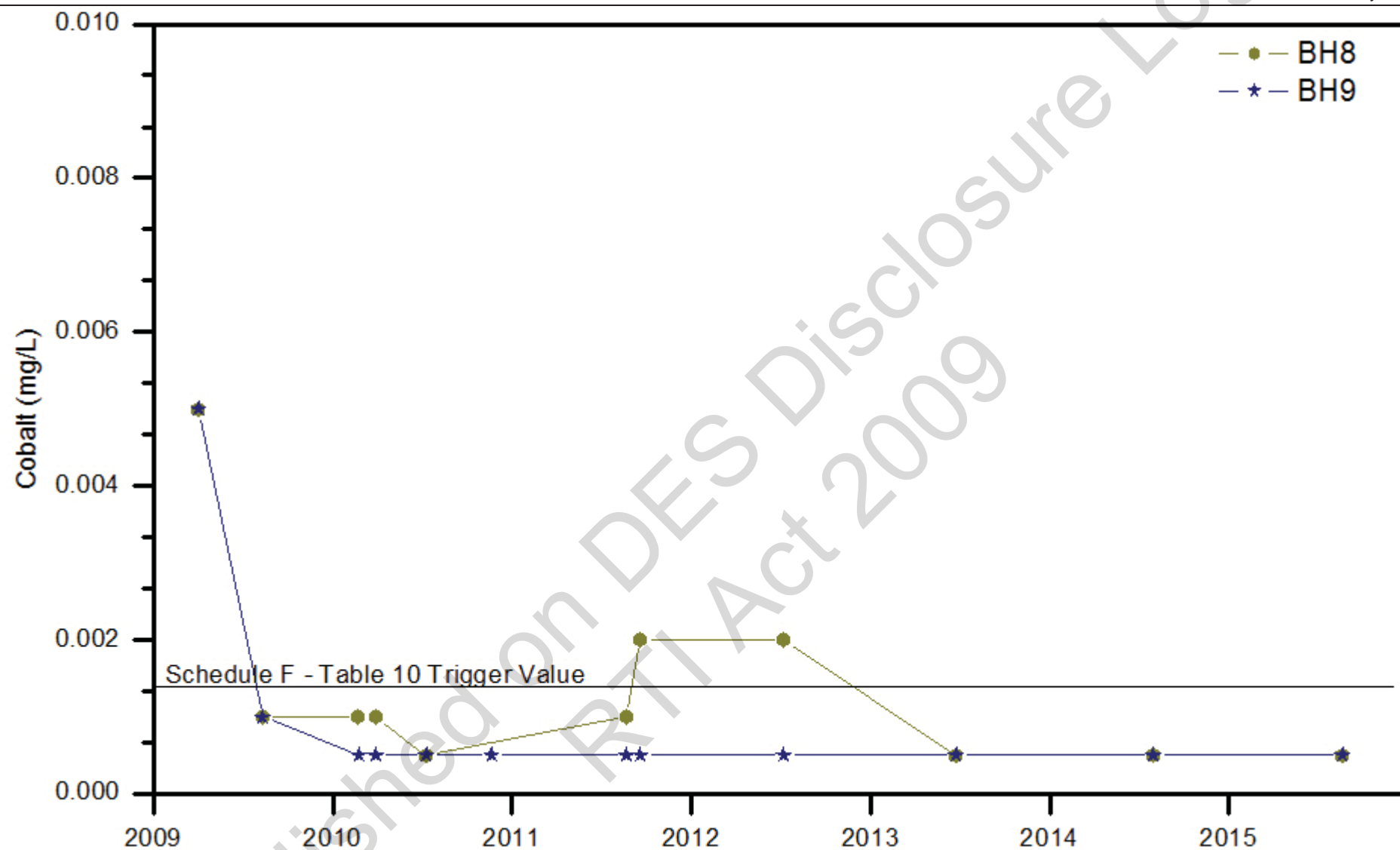


Figure 68: Golden Butterfly North Pit Bores - Time Series Cobalt

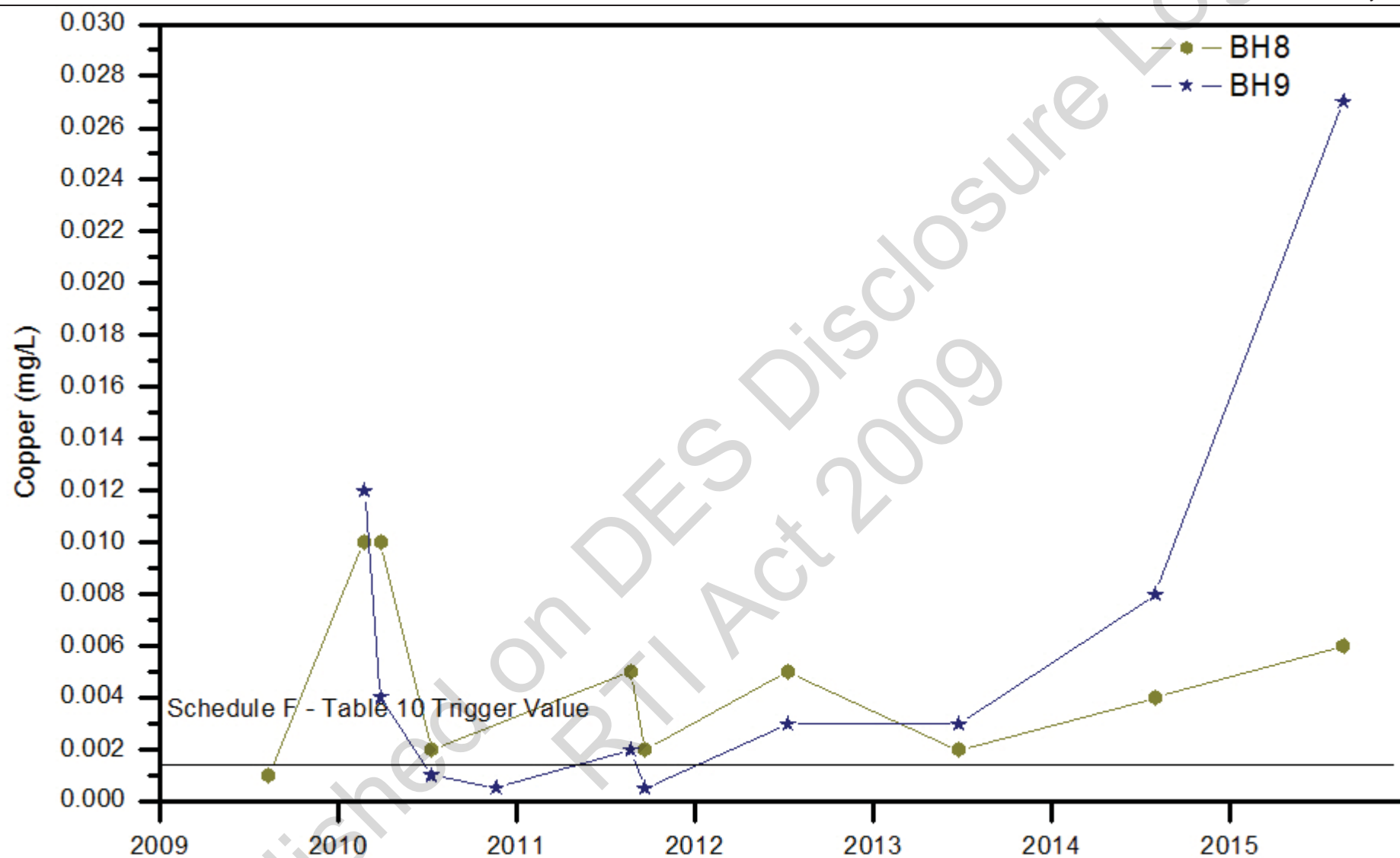


Figure 69: Golden Butterfly North Pit Bores - Time Series Copper

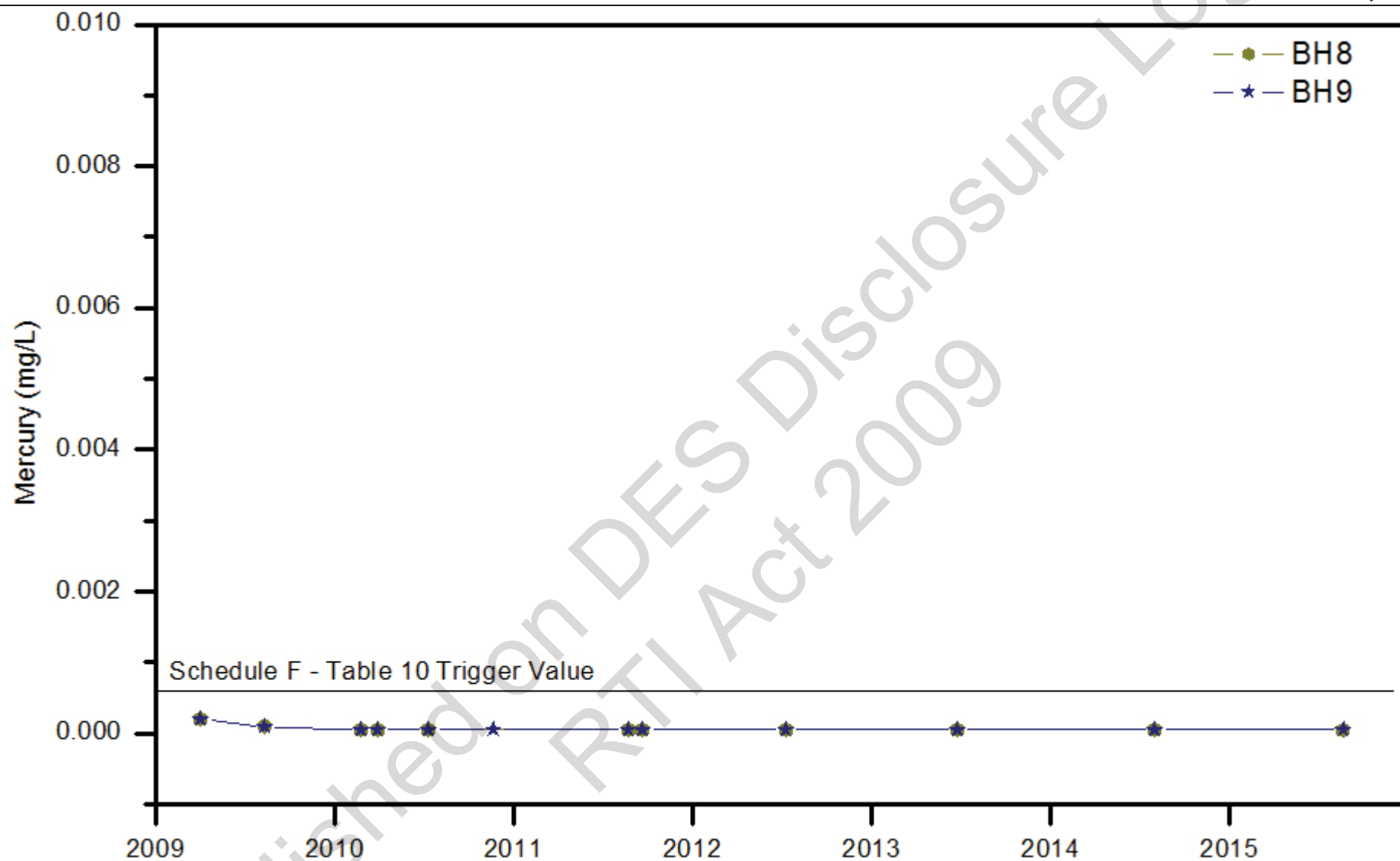


Figure 70: Golden Butterfly North Pit Bores - Time Series Mercury

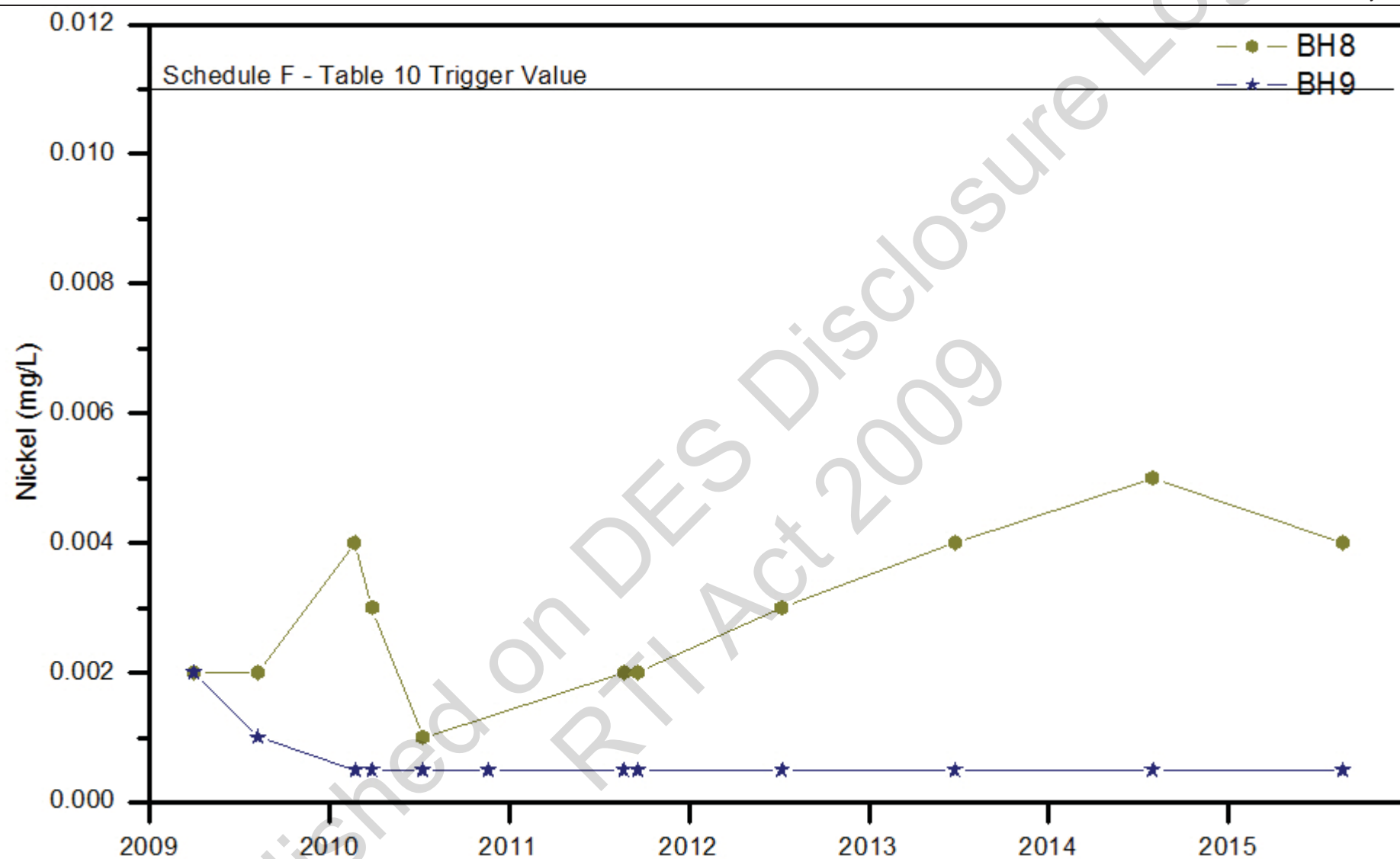


Figure 71: Golden Butterfly North Pit Bores - Time Series Nickel

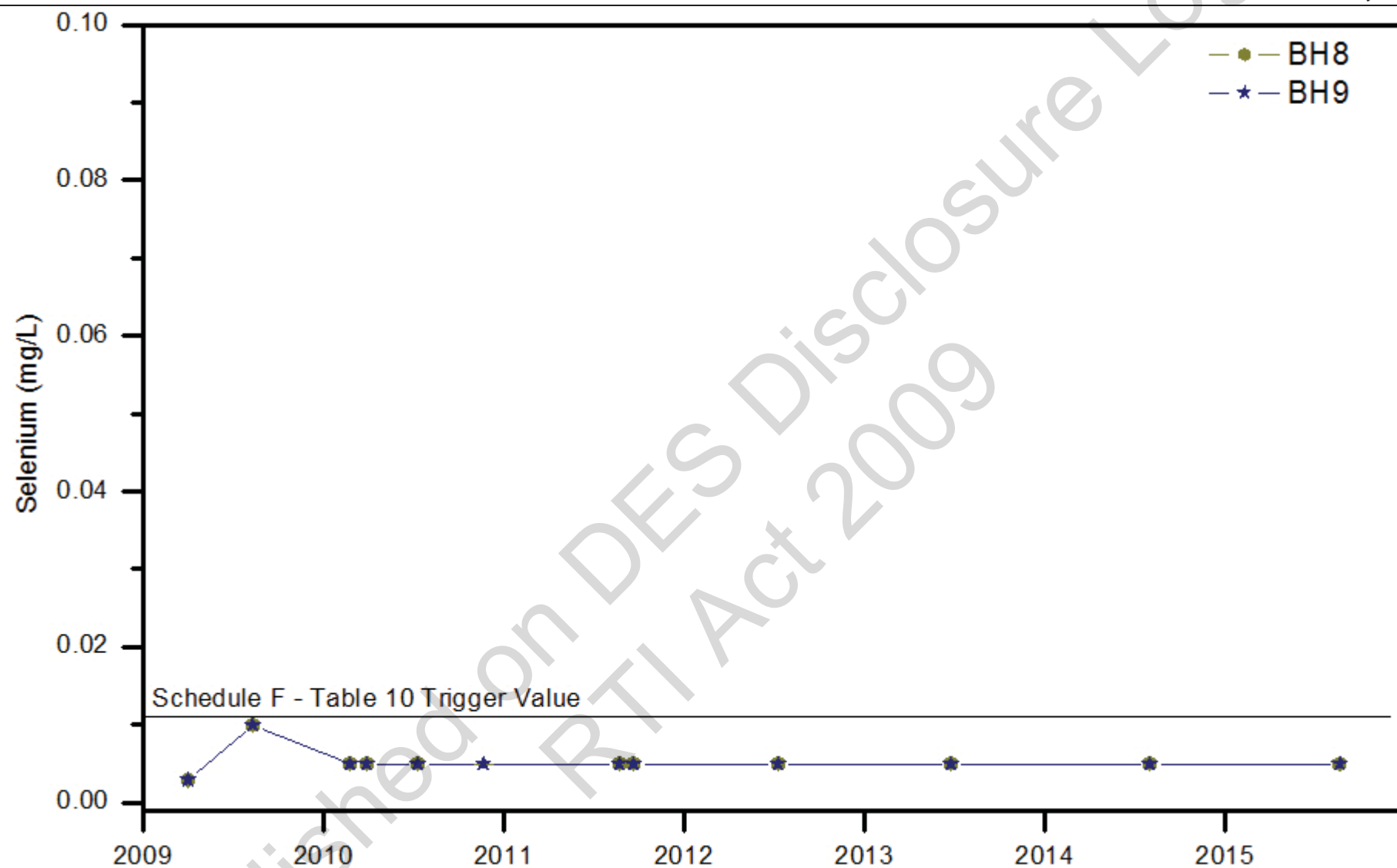


Figure 72: Golden Butterfly North Pit Bores - Time Series Selenium

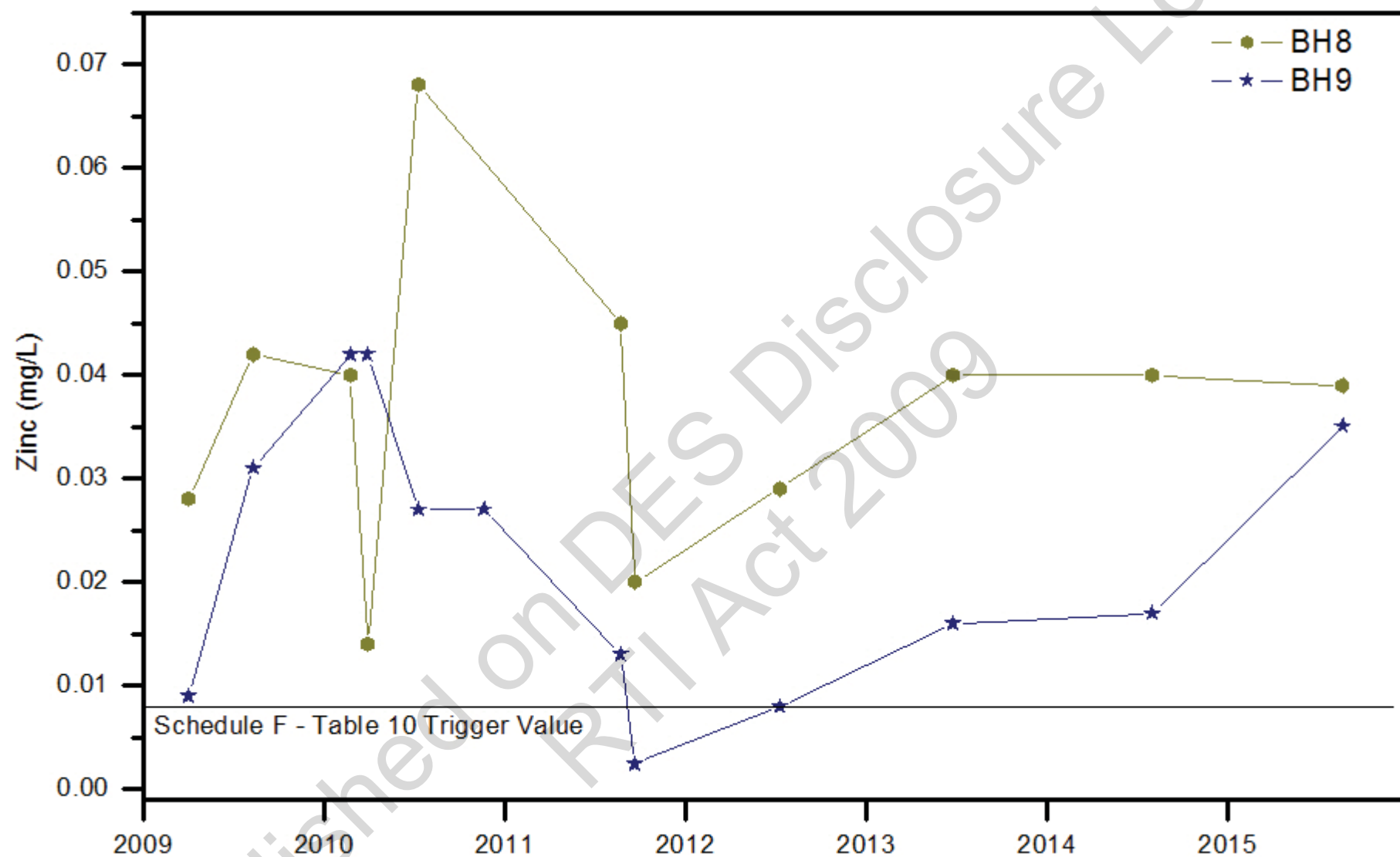


Figure 73: Golden Butterfly North Pit Bores - Time Series Zinc

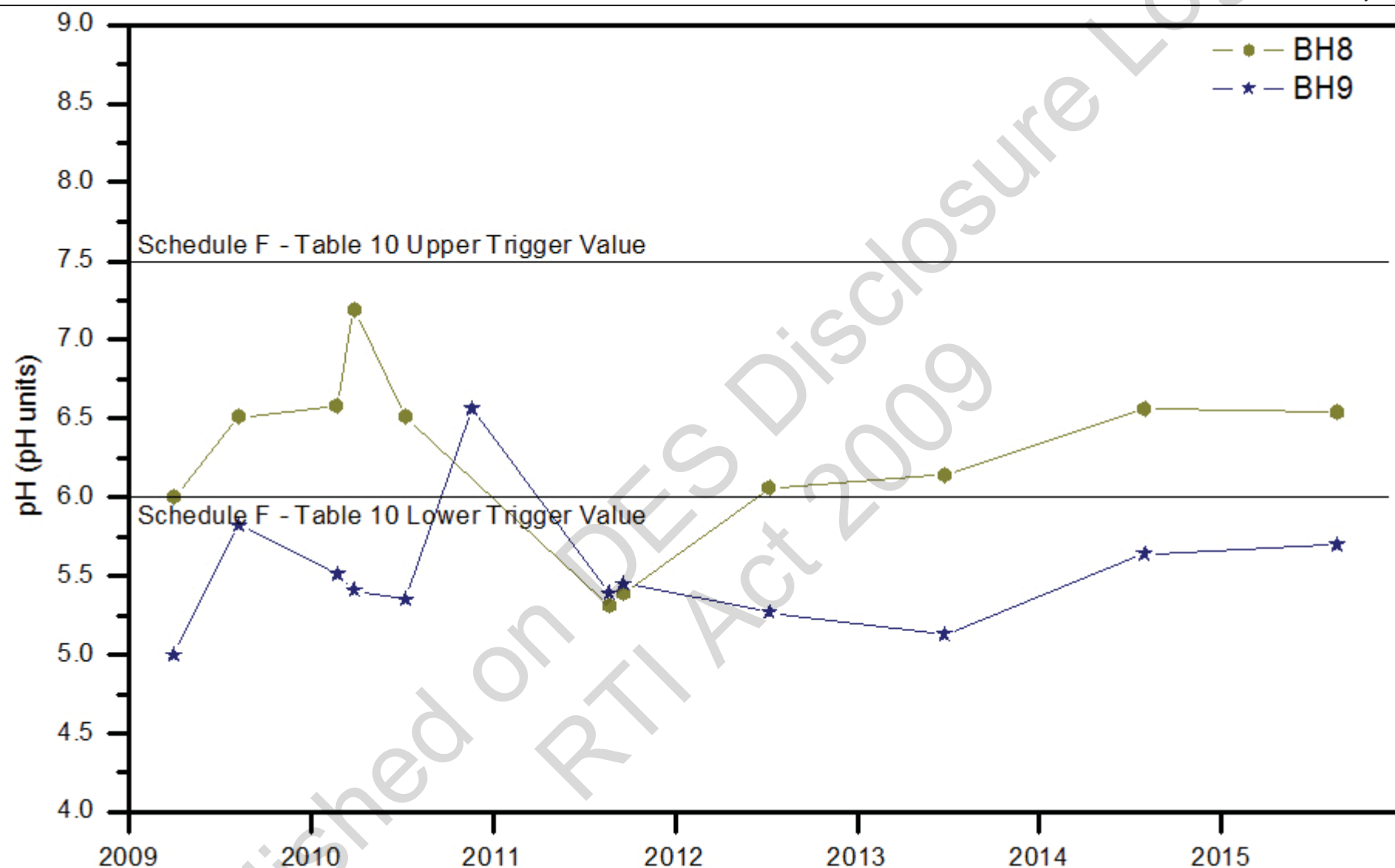


Figure 74: Golden Butterfly North Pit Bores - Time Series pH

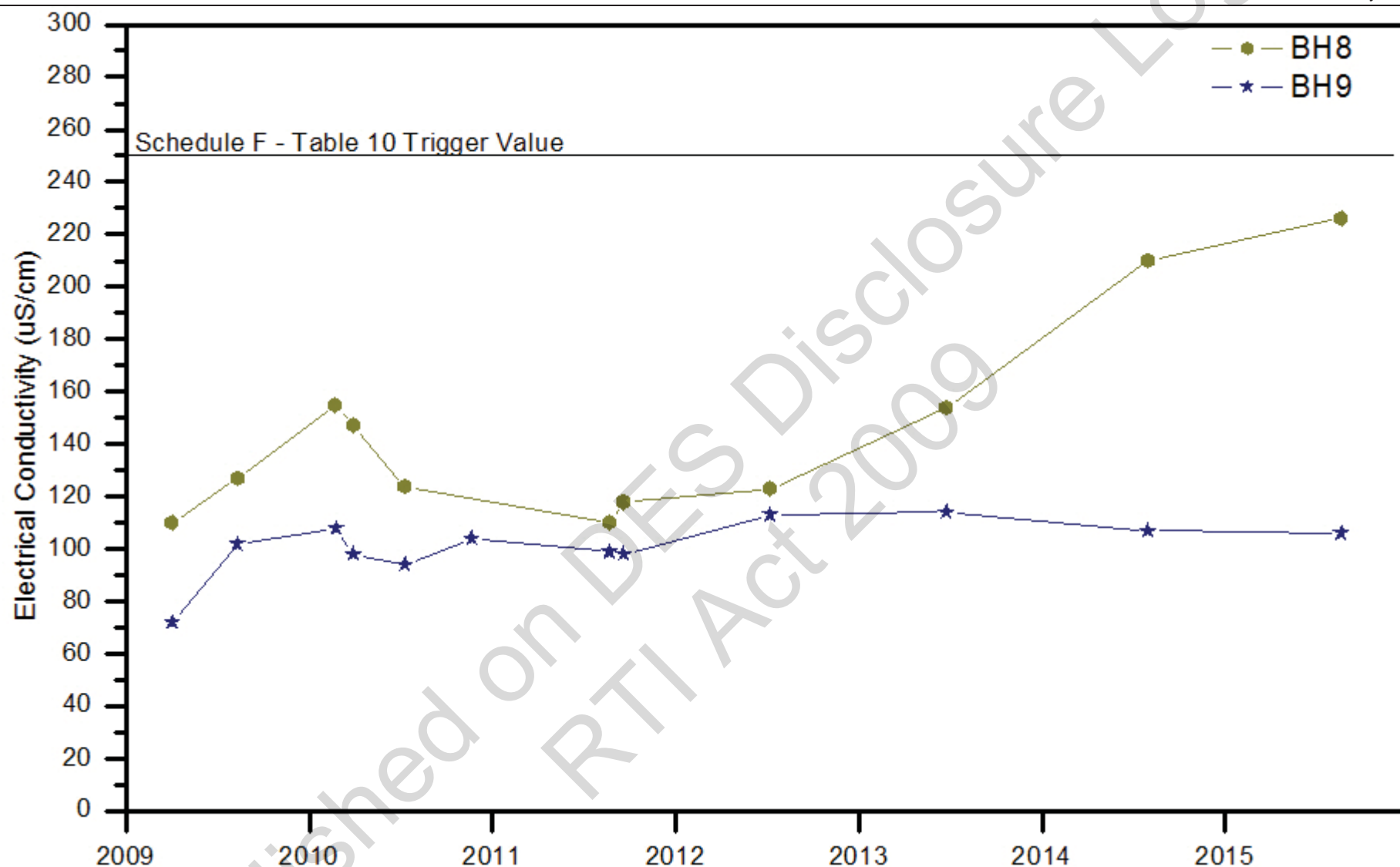


Figure 75: Golden Butterfly North Pit Bores - Time Series E.C

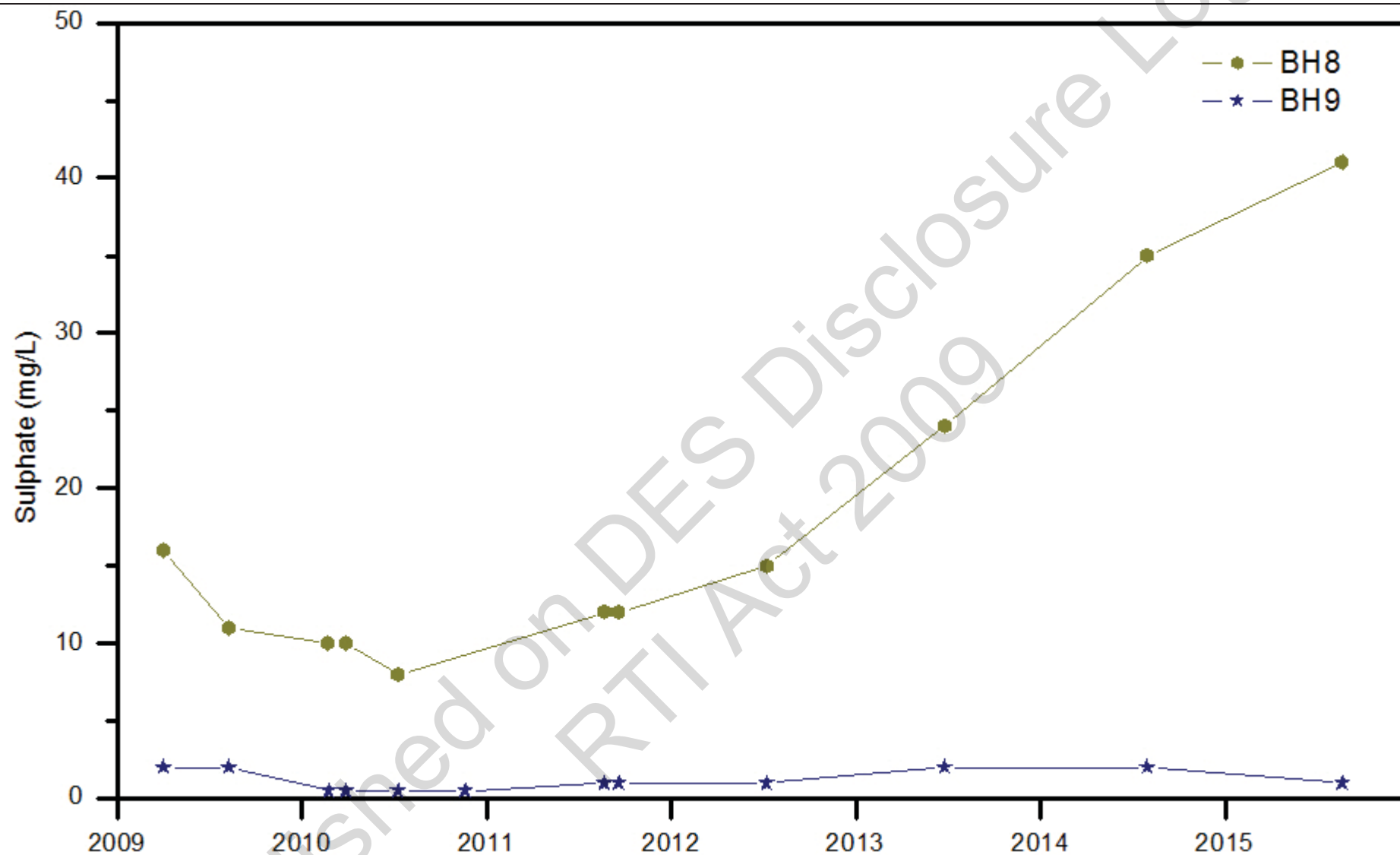


Figure 76: Golden Butterfly North Pit Bores - Time Series Sulfate

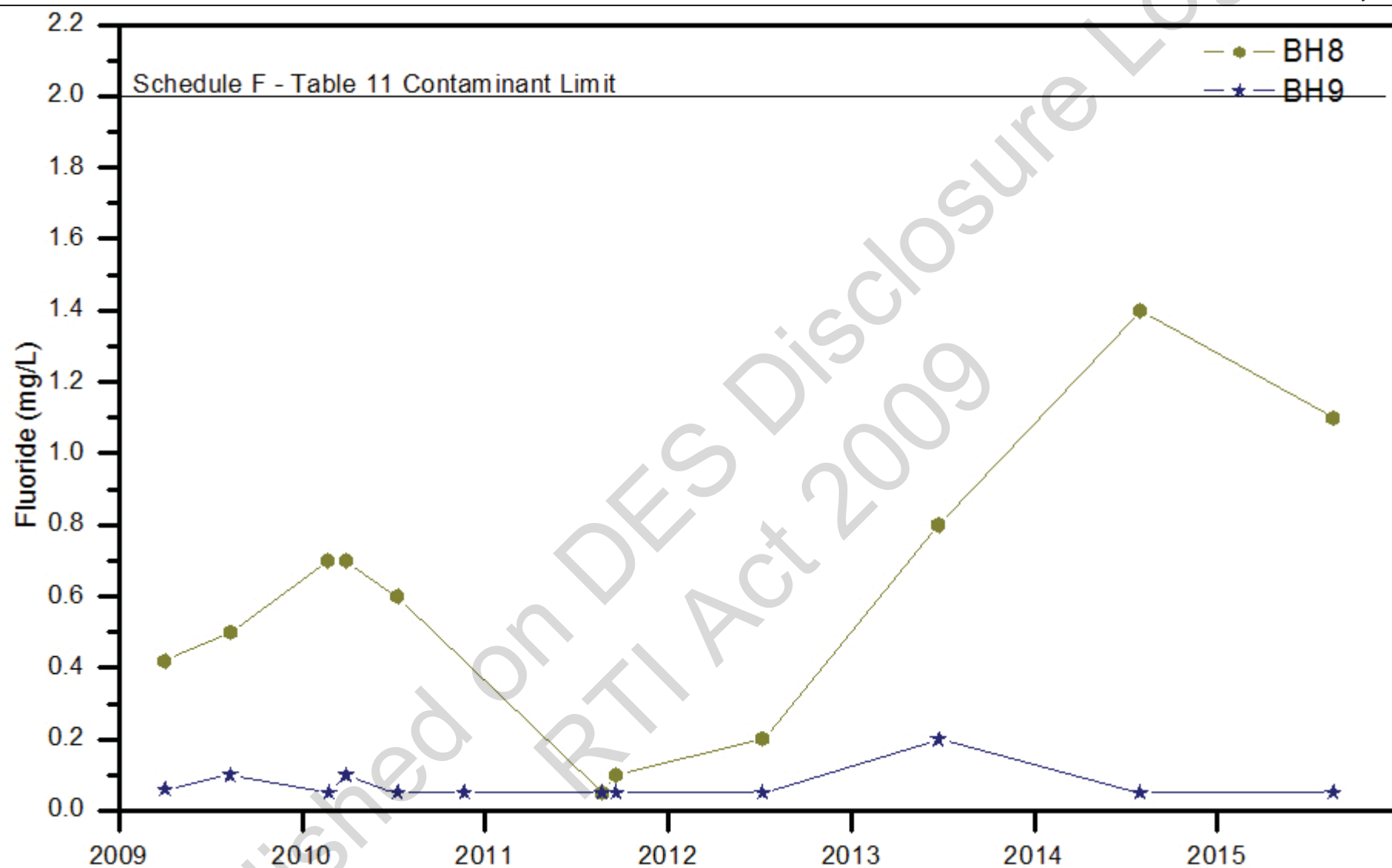


Figure 77: Golden Butterfly North Pit Bores - Time Series Fluoride

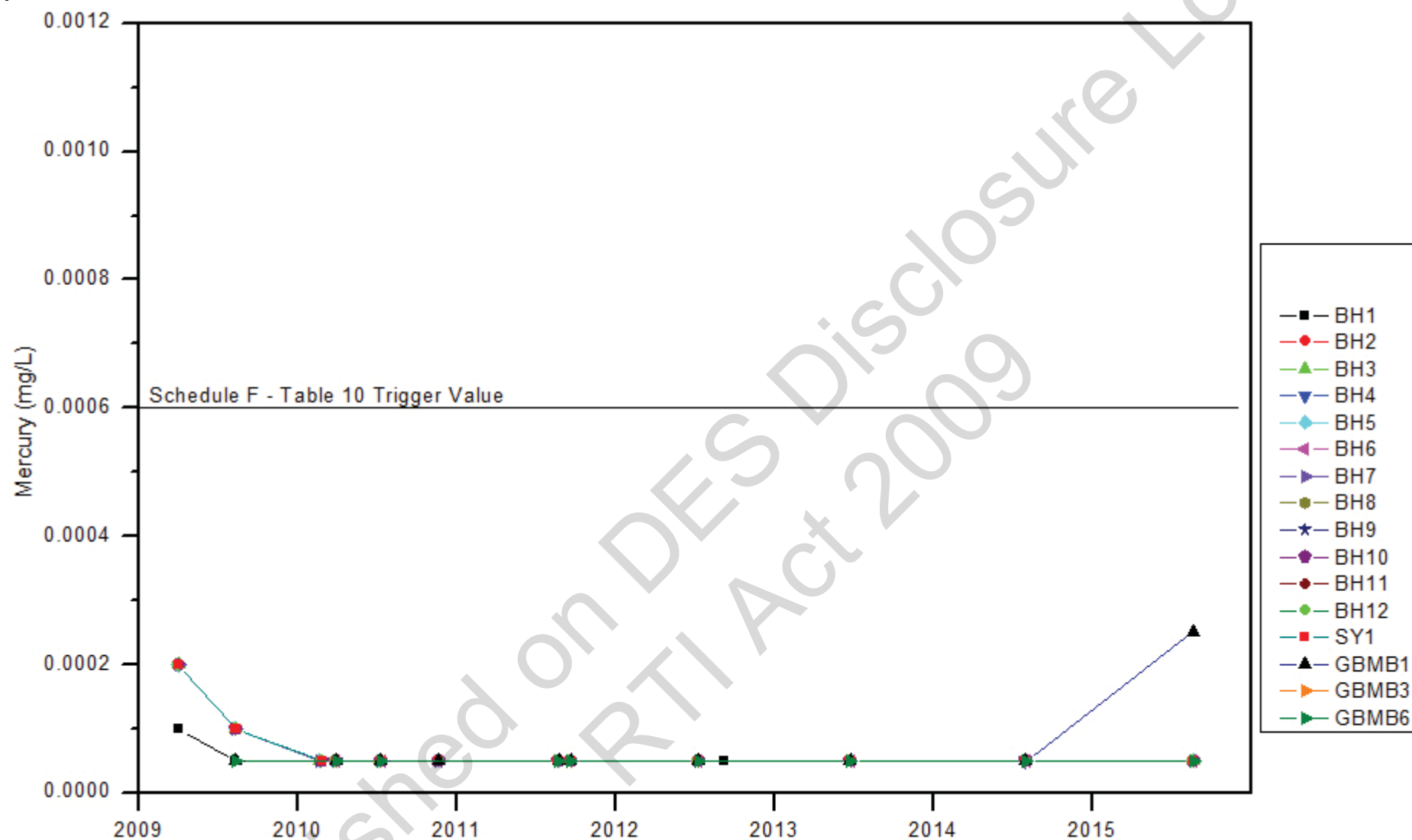


Figure 78: Time Series All Bores – Mercury

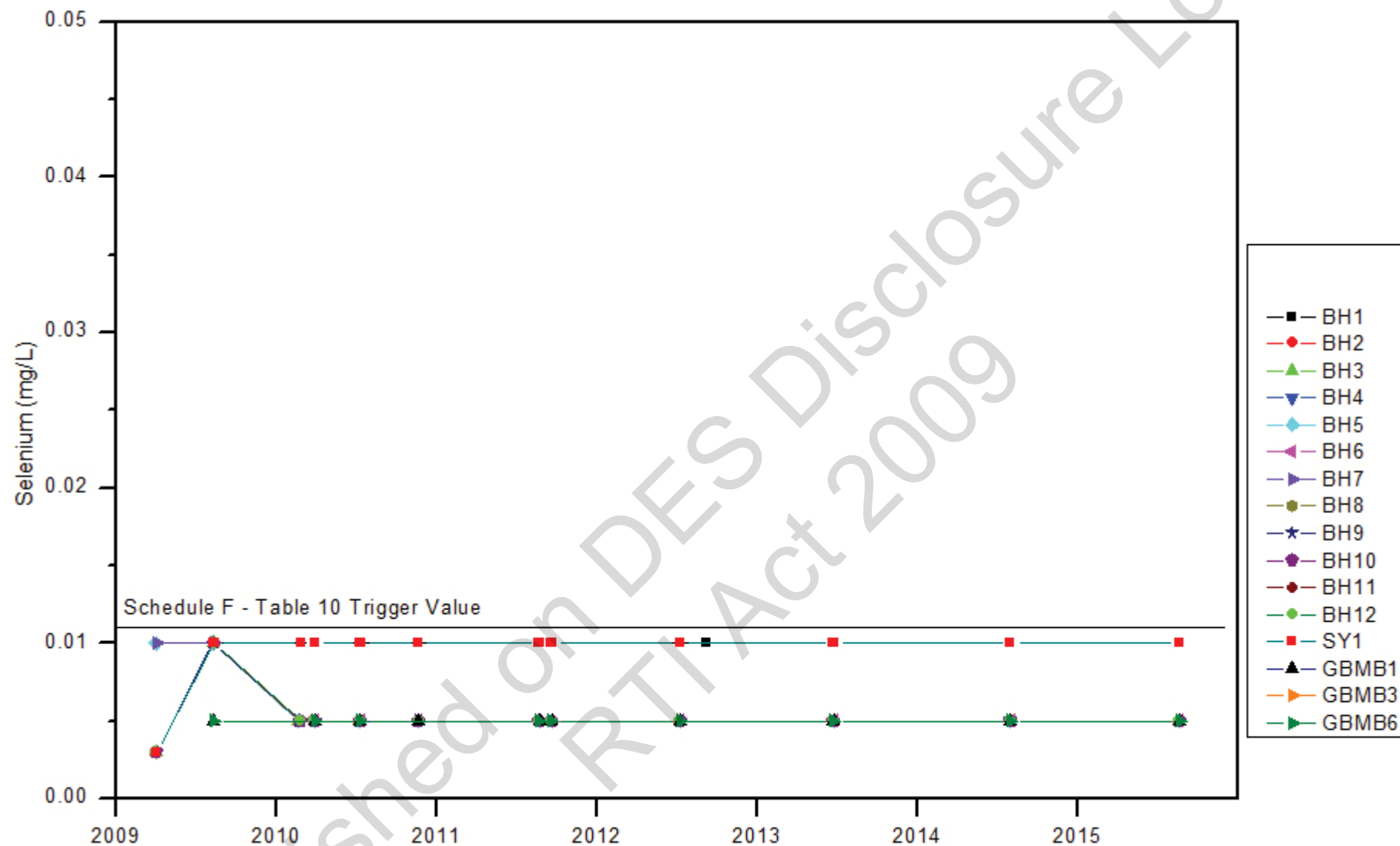


Figure 79: Time Series All Bores – Selenium

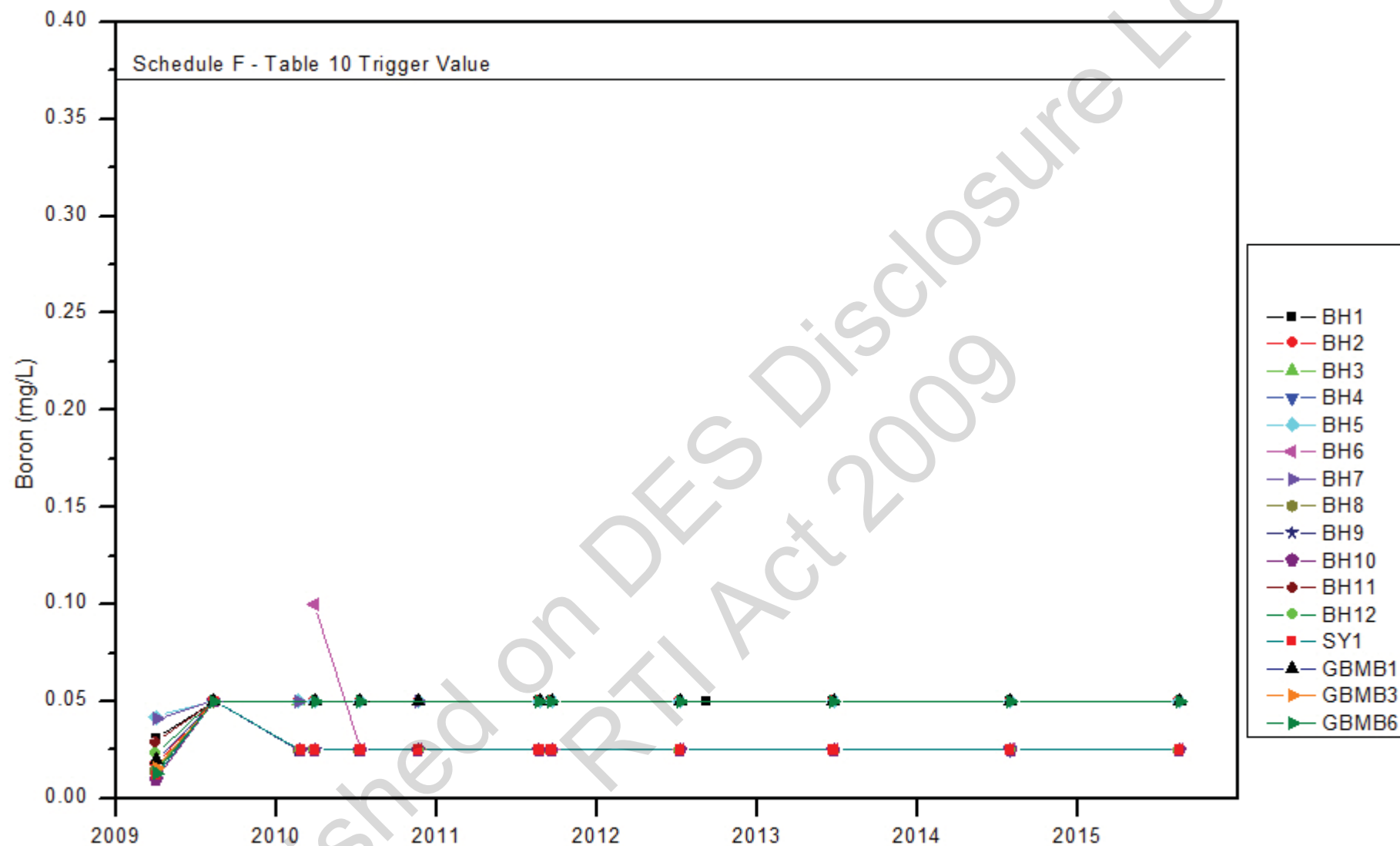


Figure 80: Time Series All Bores – Boron

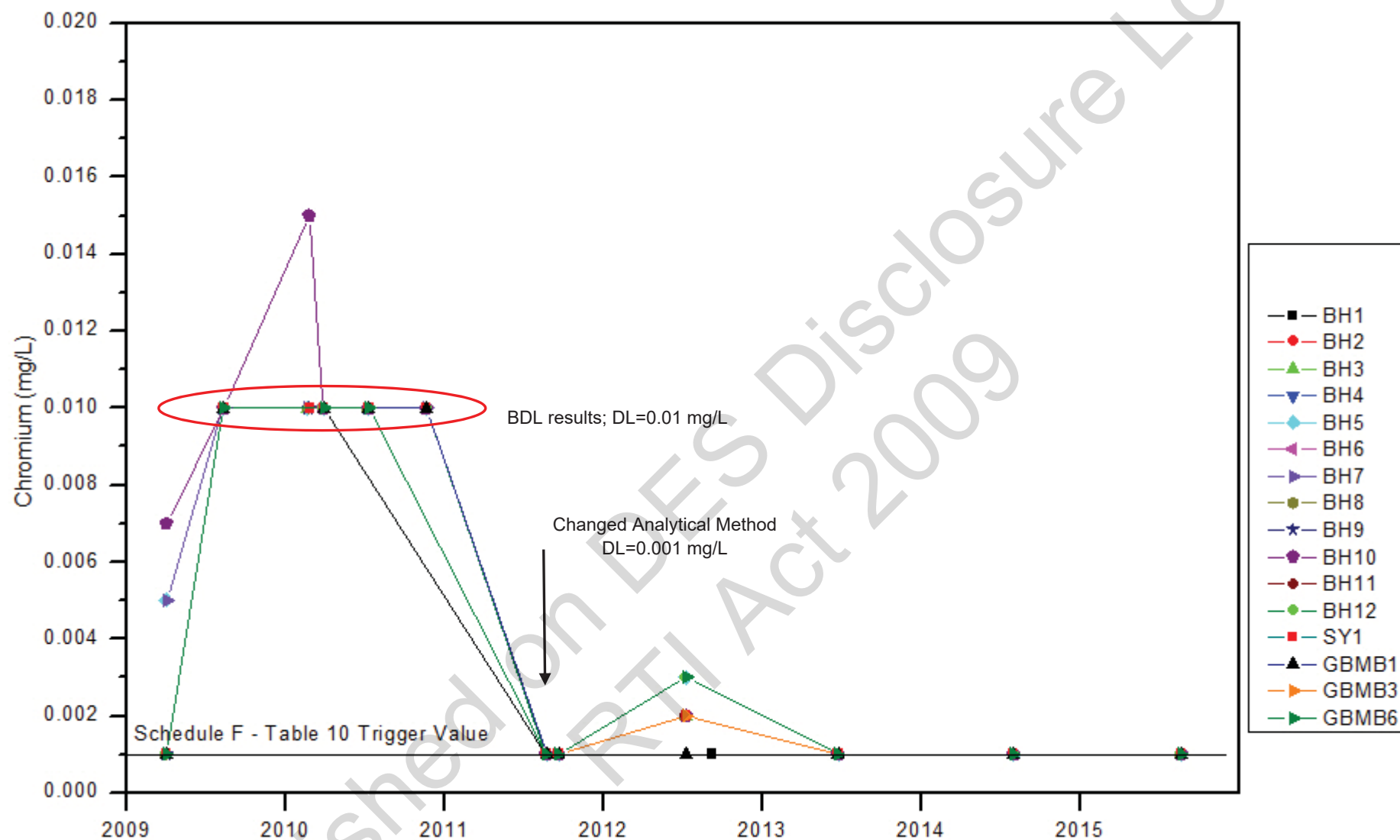


Figure 81: Time Series All Bores – Chromium

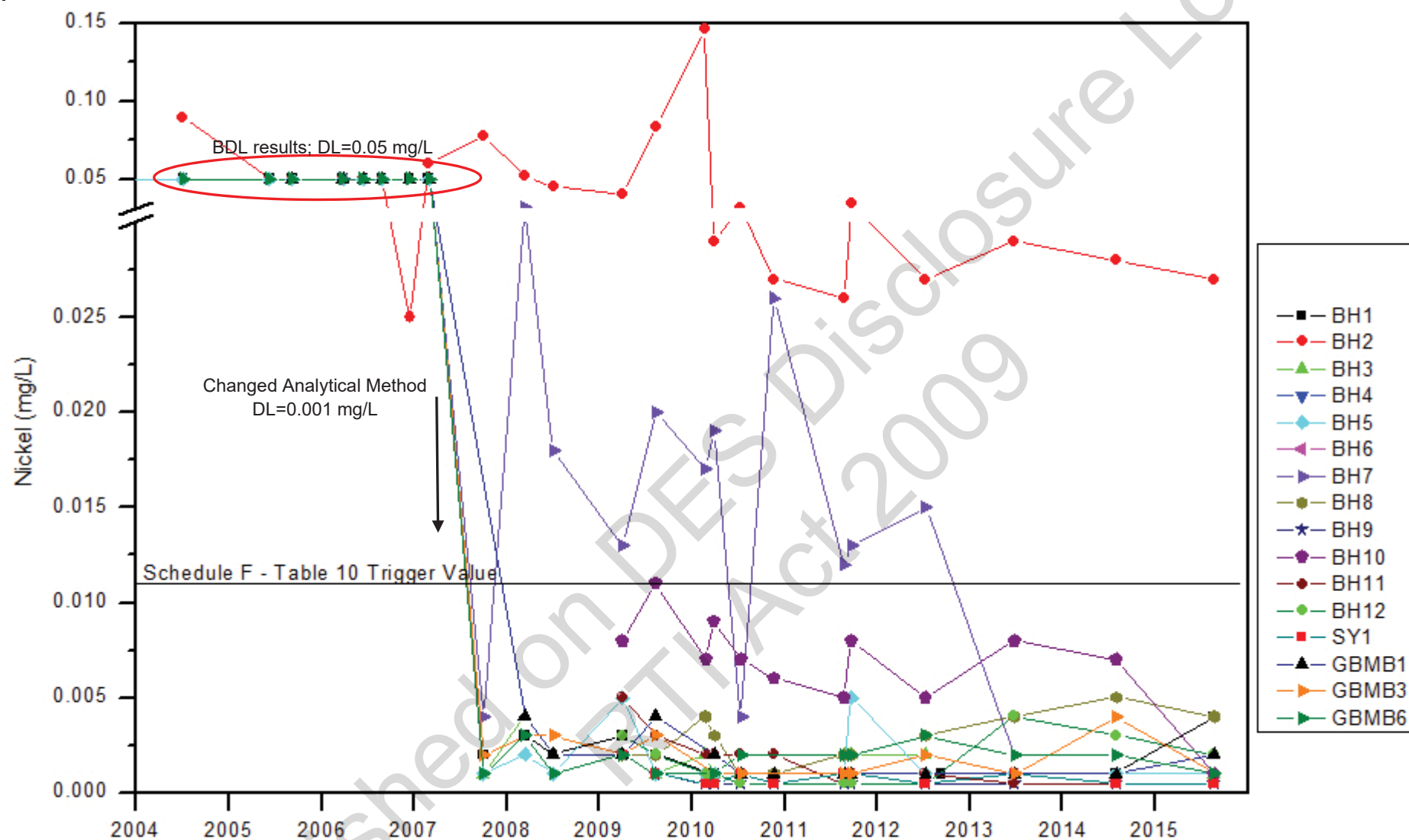


Figure 82: Time Series All Bores – Nickel

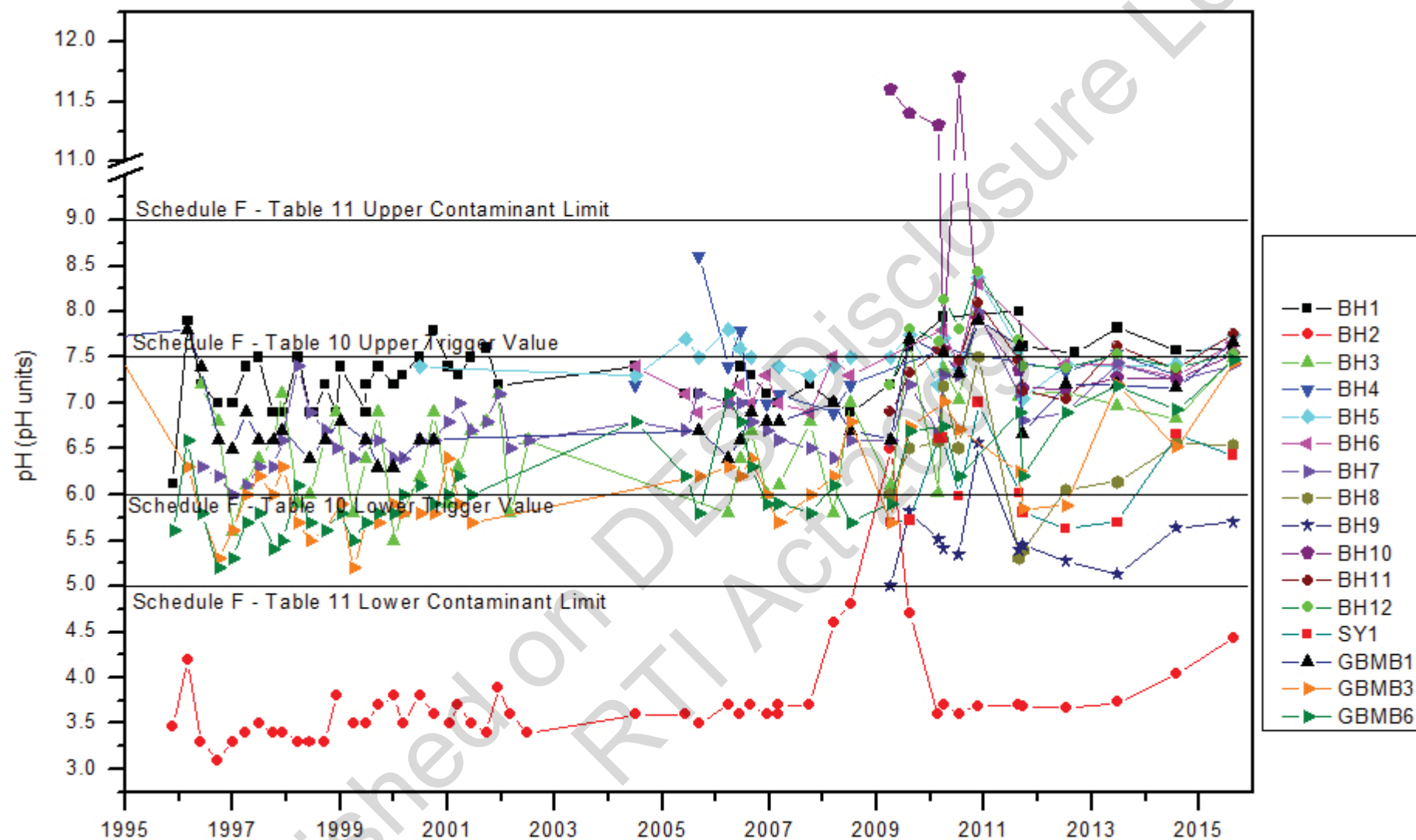


Figure 83: Time Series All Bores – pH

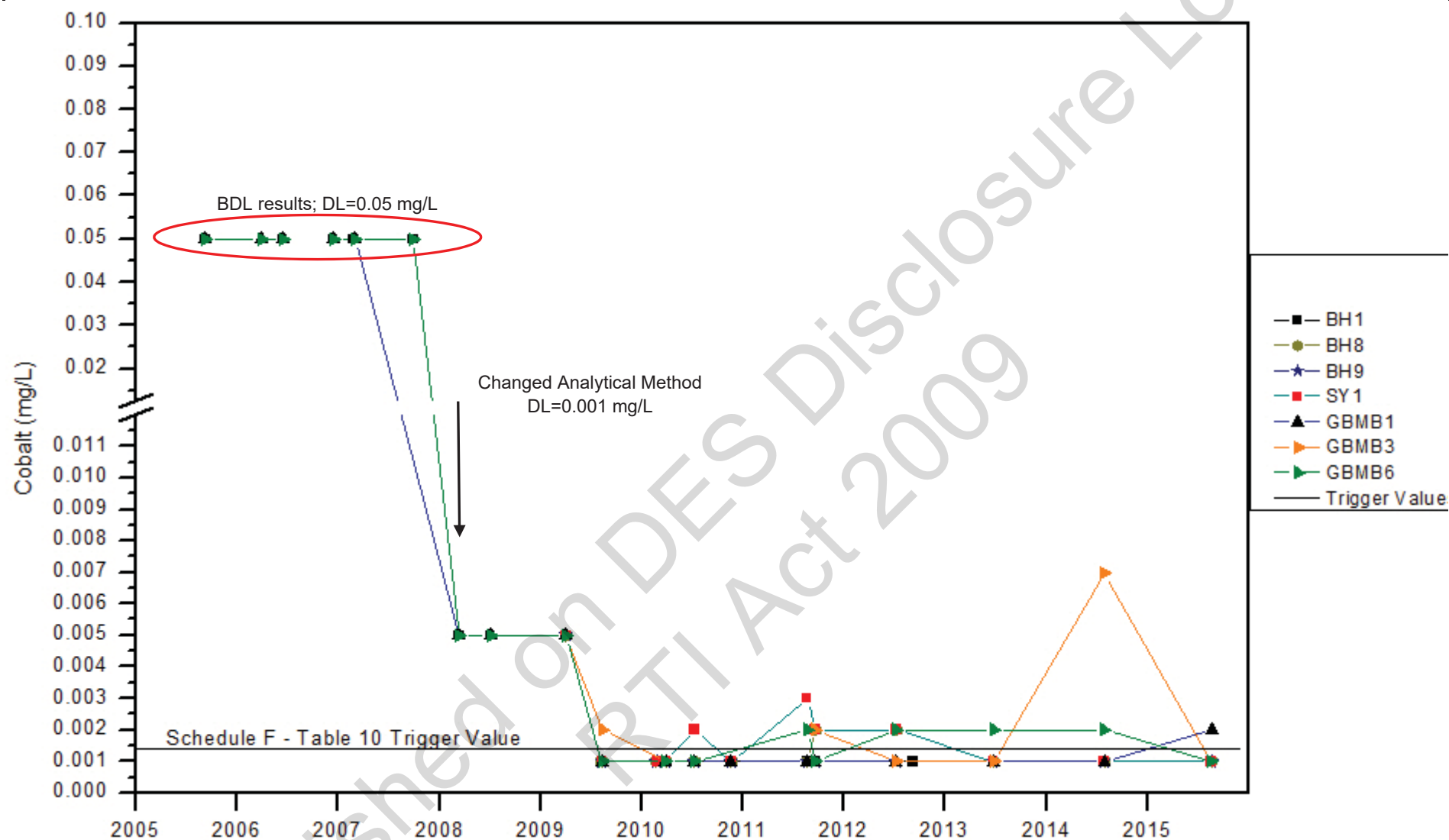


Figure 84: Time Series Chromium – Bores with BDL results

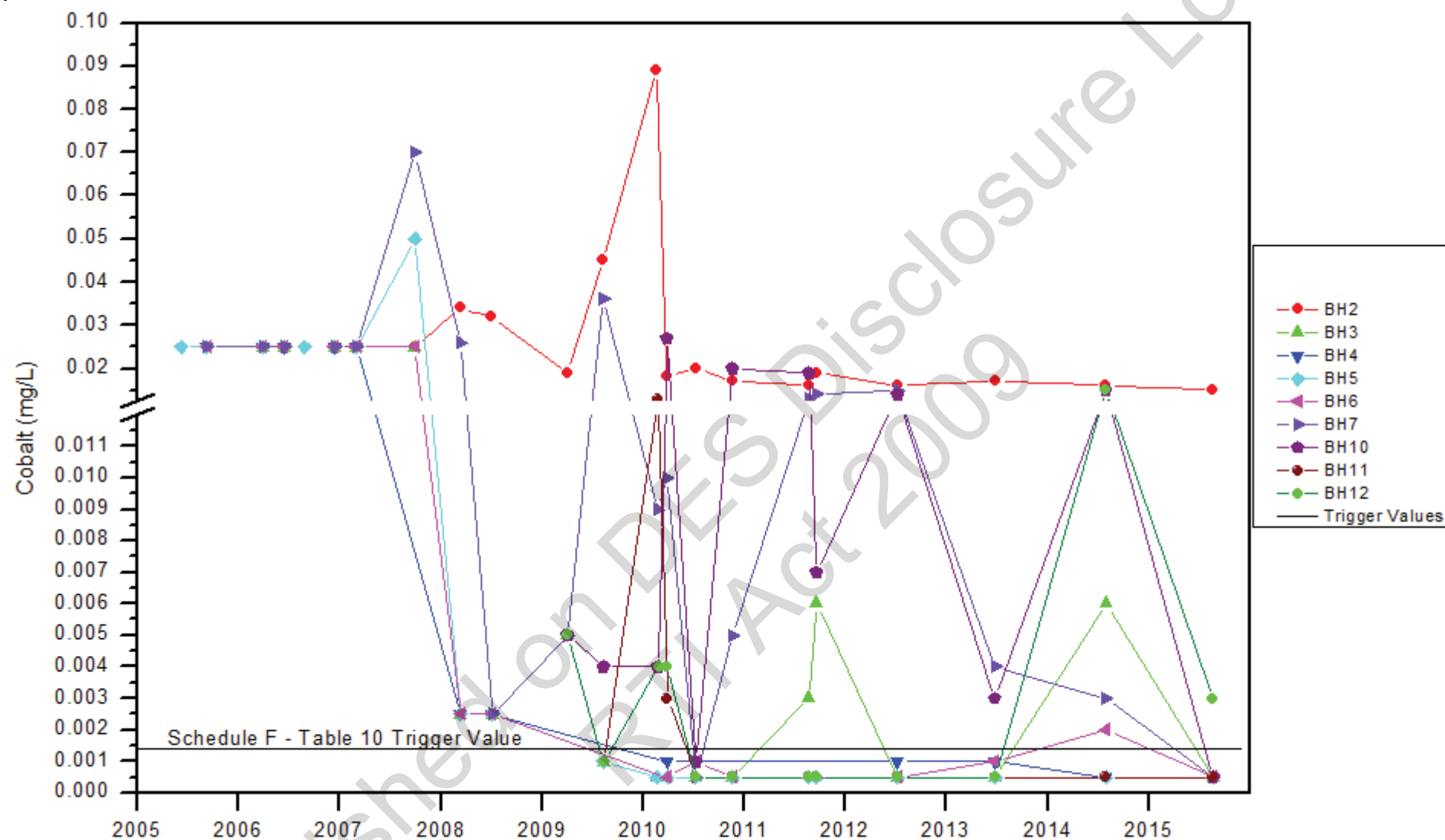


Figure 85: Time Series Chromium – Bores with above BDL results

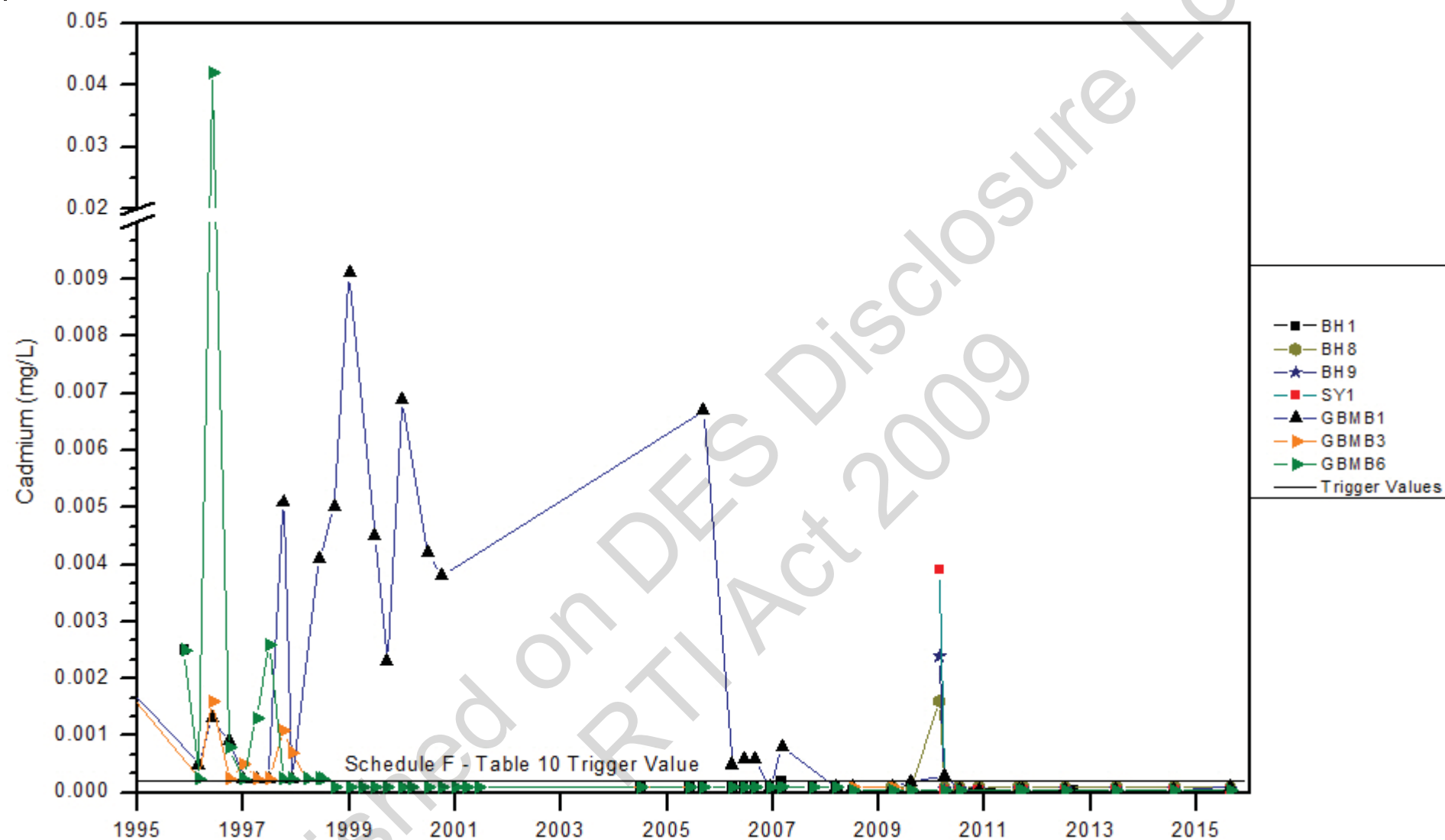


Figure 86: Time Series Cadmium – Bores with BDL results

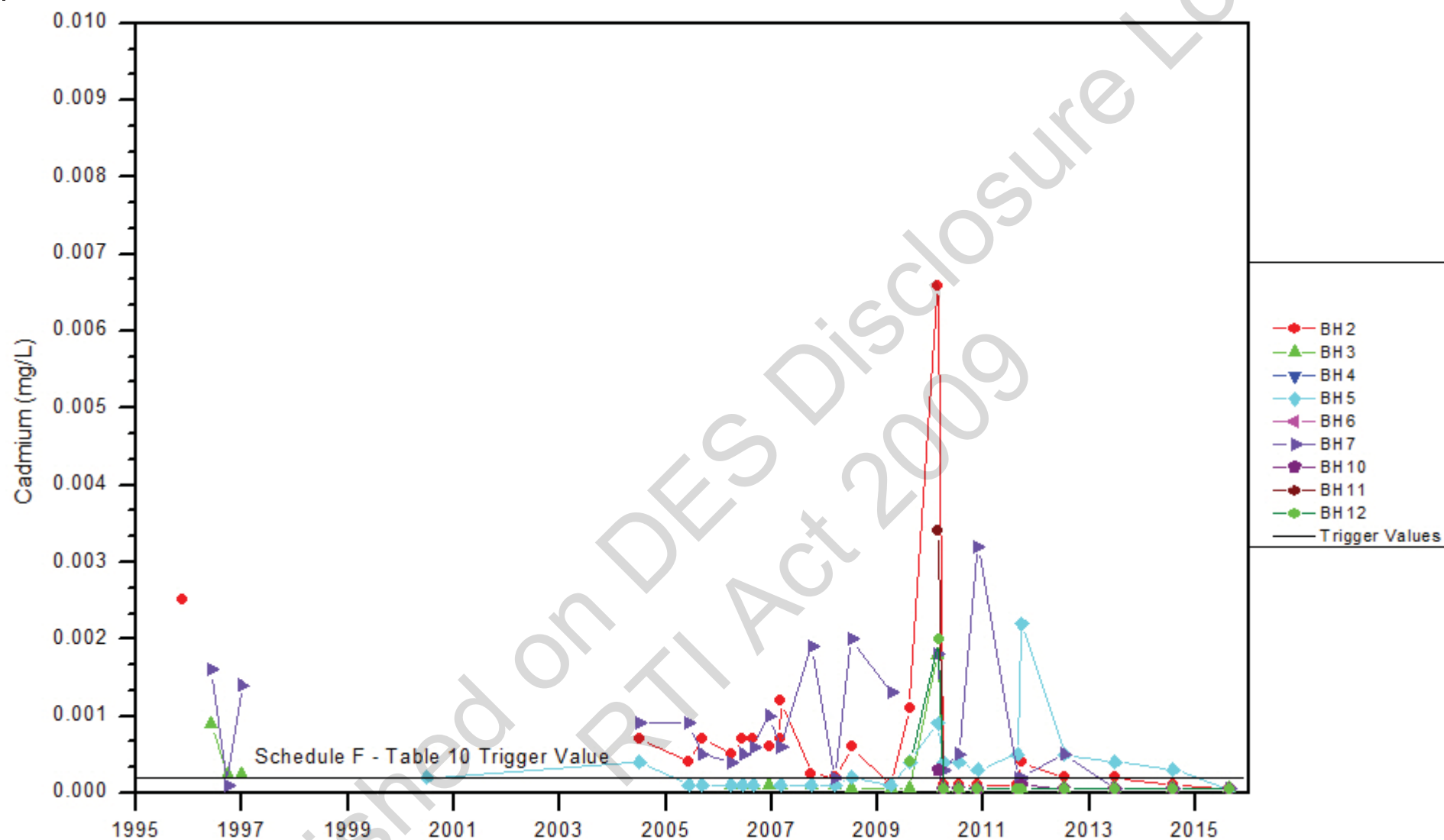


Figure 87: Time Series Cadmium – Bores with above BDL results

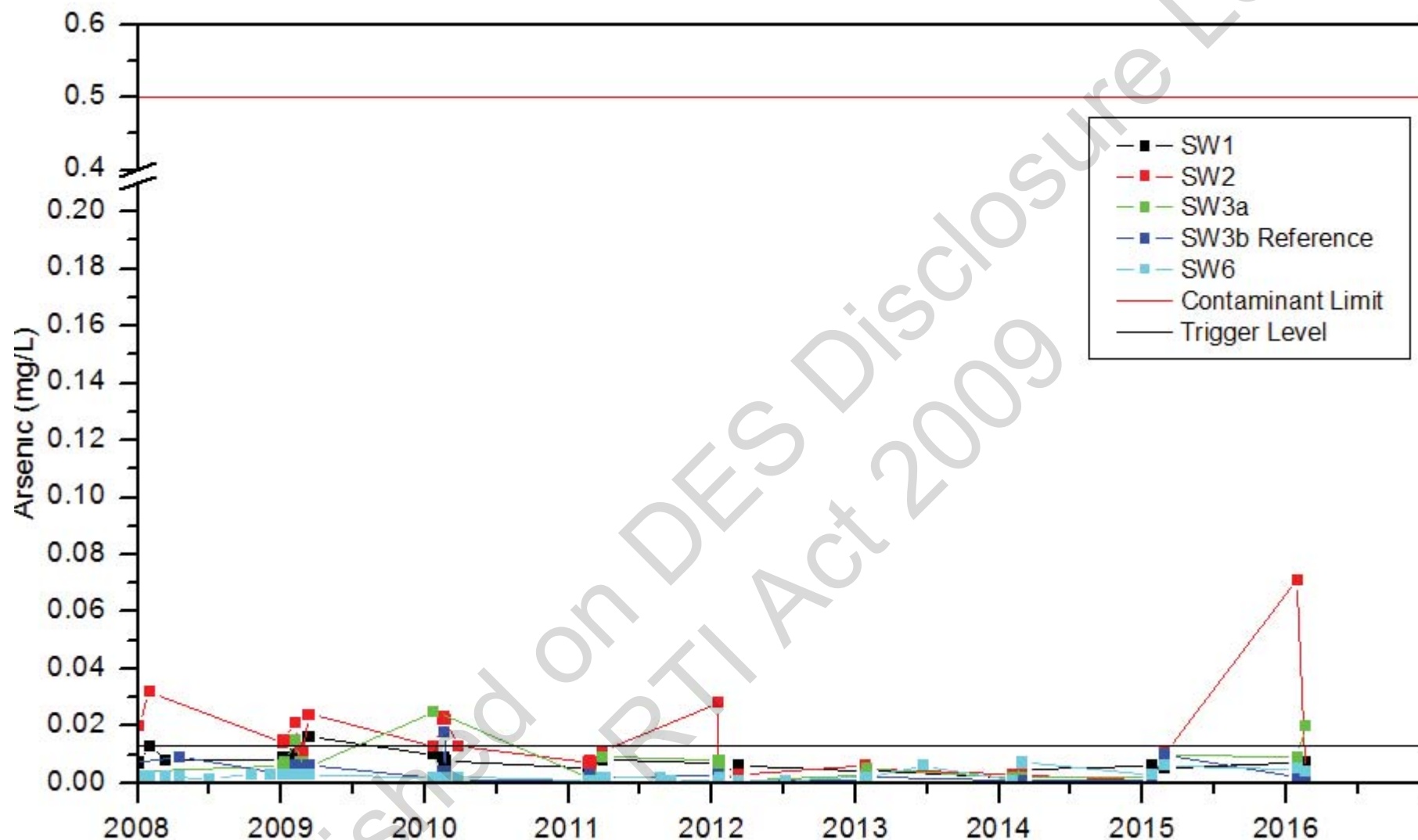


Figure 88: Surface Waters – All Sites Time Series for Arsenic

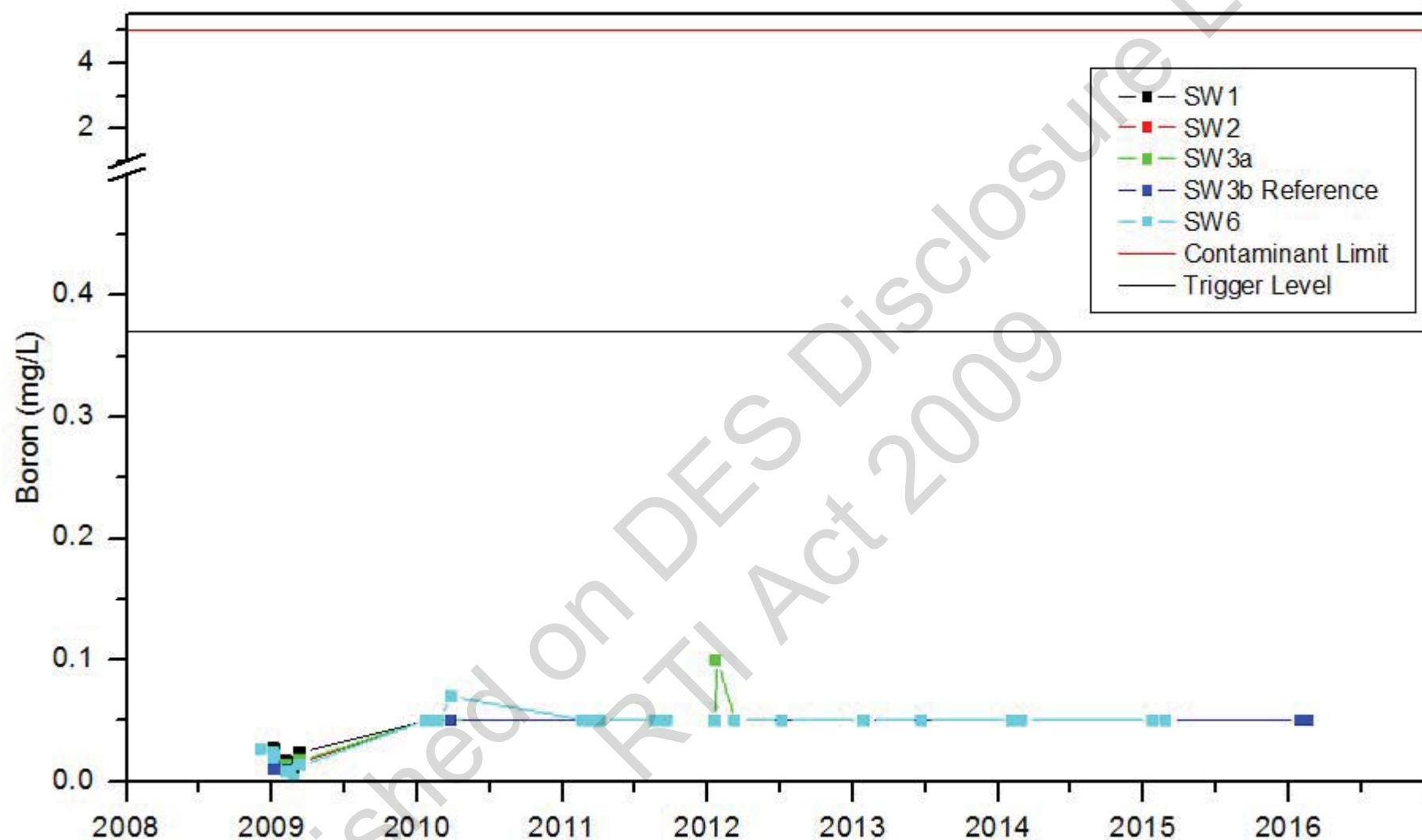


Figure 89: Surface Waters – All Sites Time Series for Boron

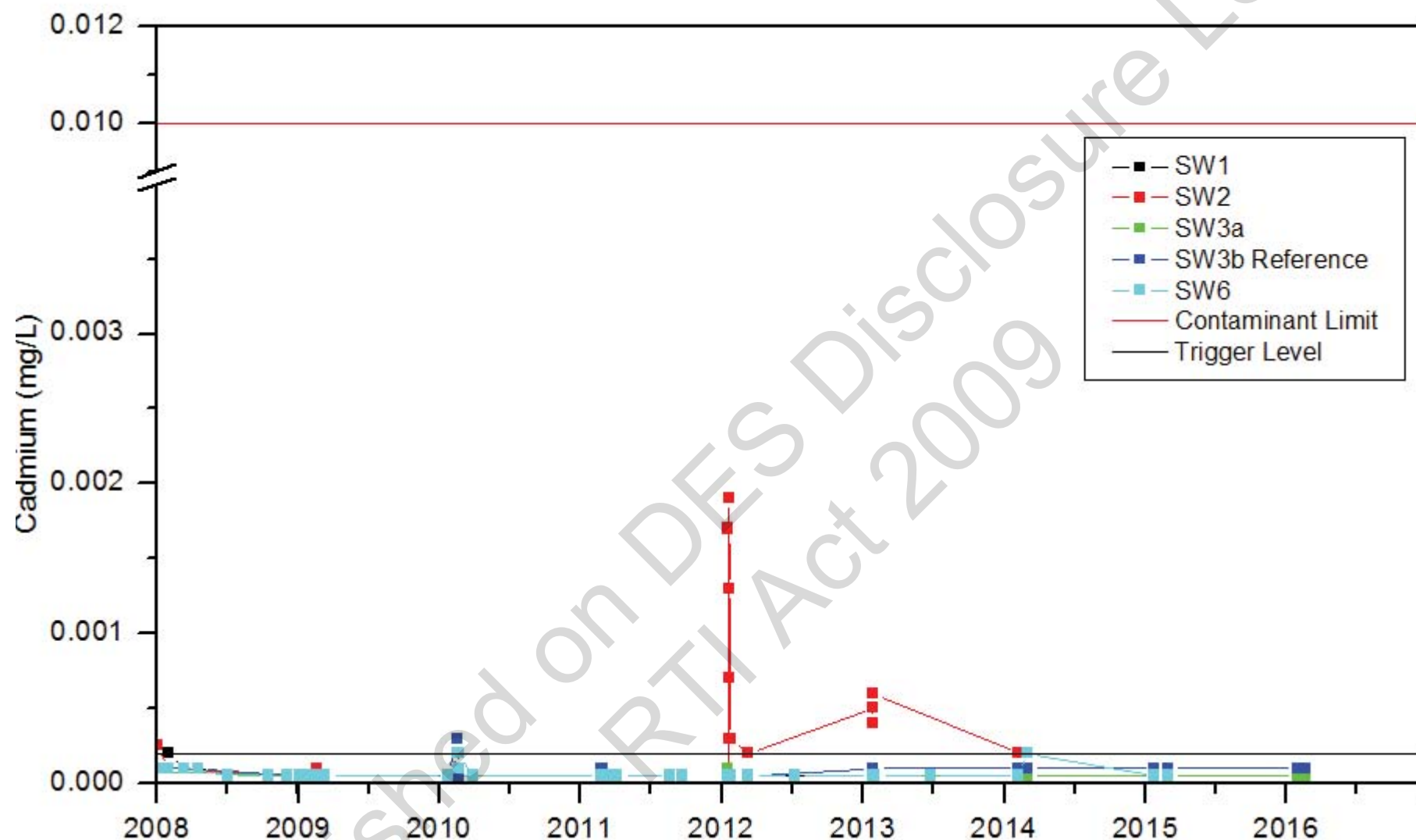


Figure 90: Surface Waters – All Sites Time Series for Cadmium

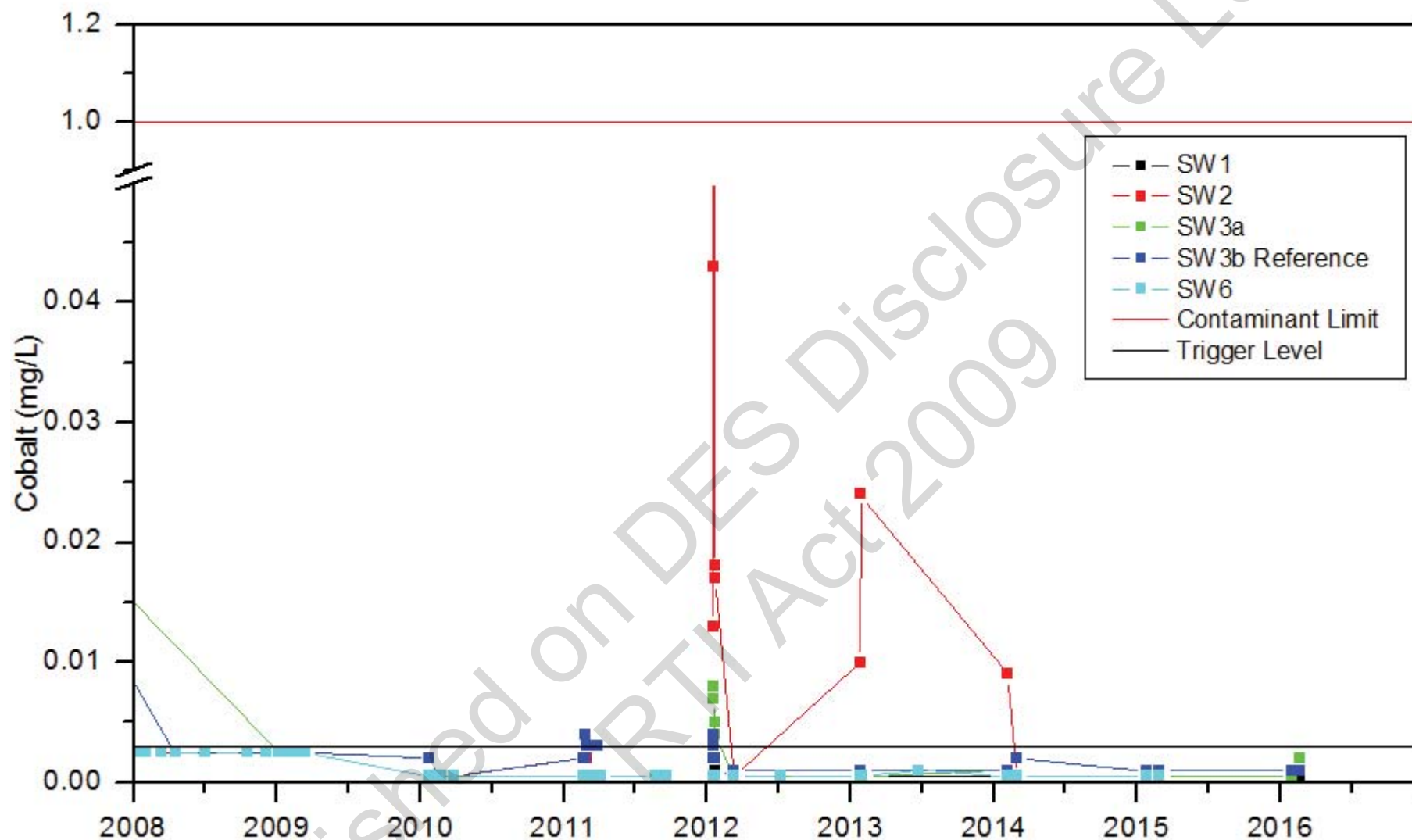


Figure 91: Surface Waters – All Sites Time Series for Cobalt

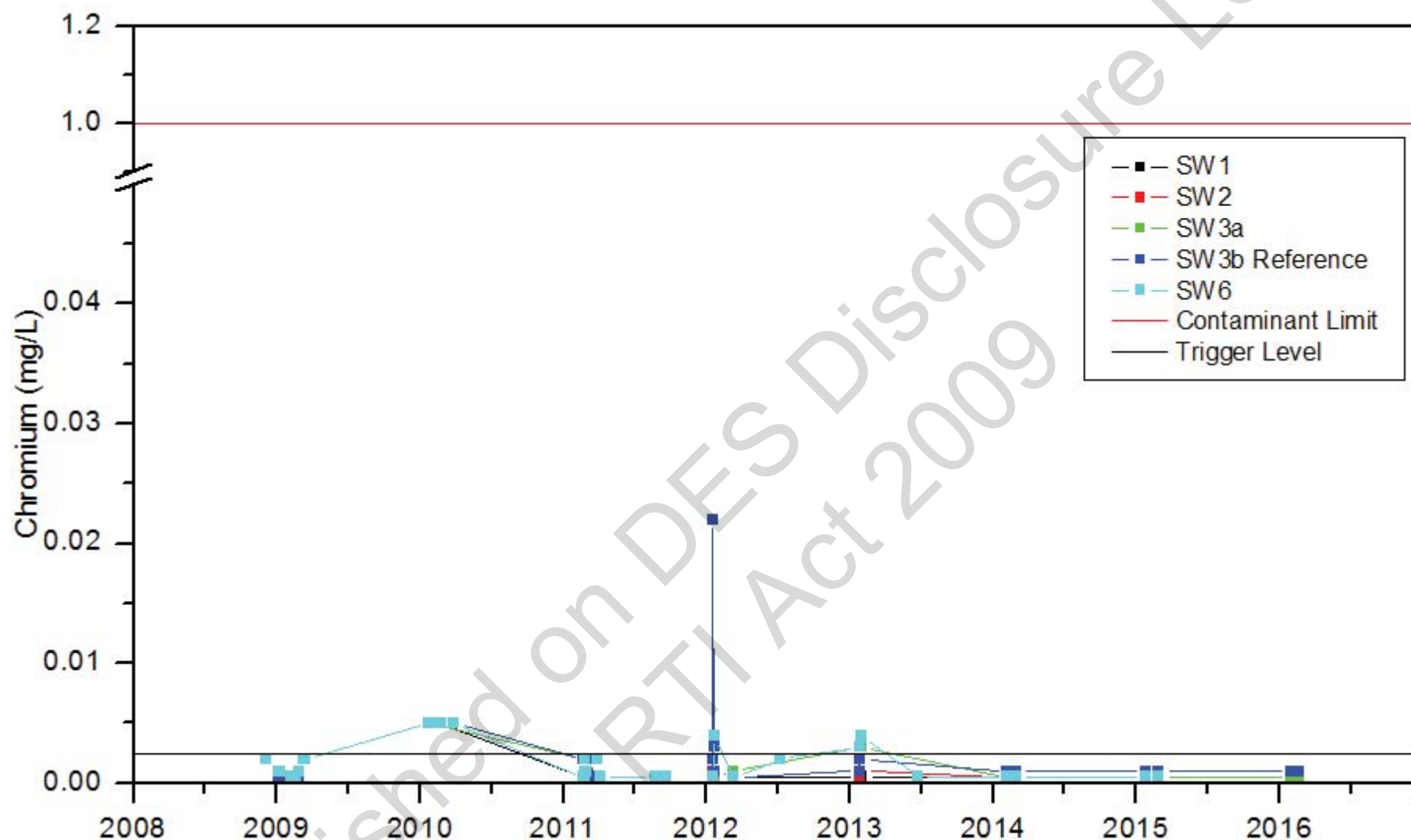


Figure 92: Surface Waters – All Sites Time Series for Chromium

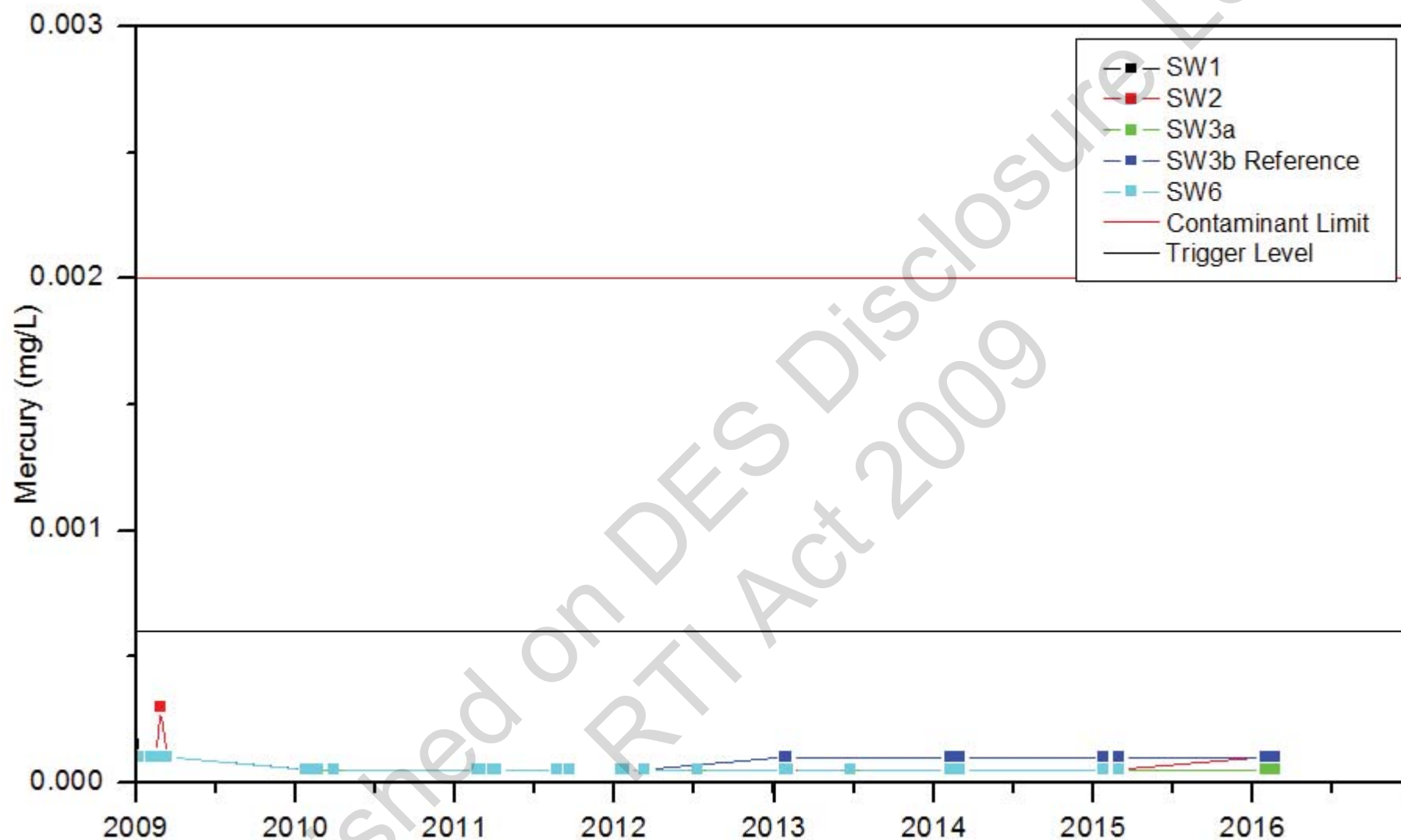


Figure 93: Surface Waters – All Sites Time Series for Mercury

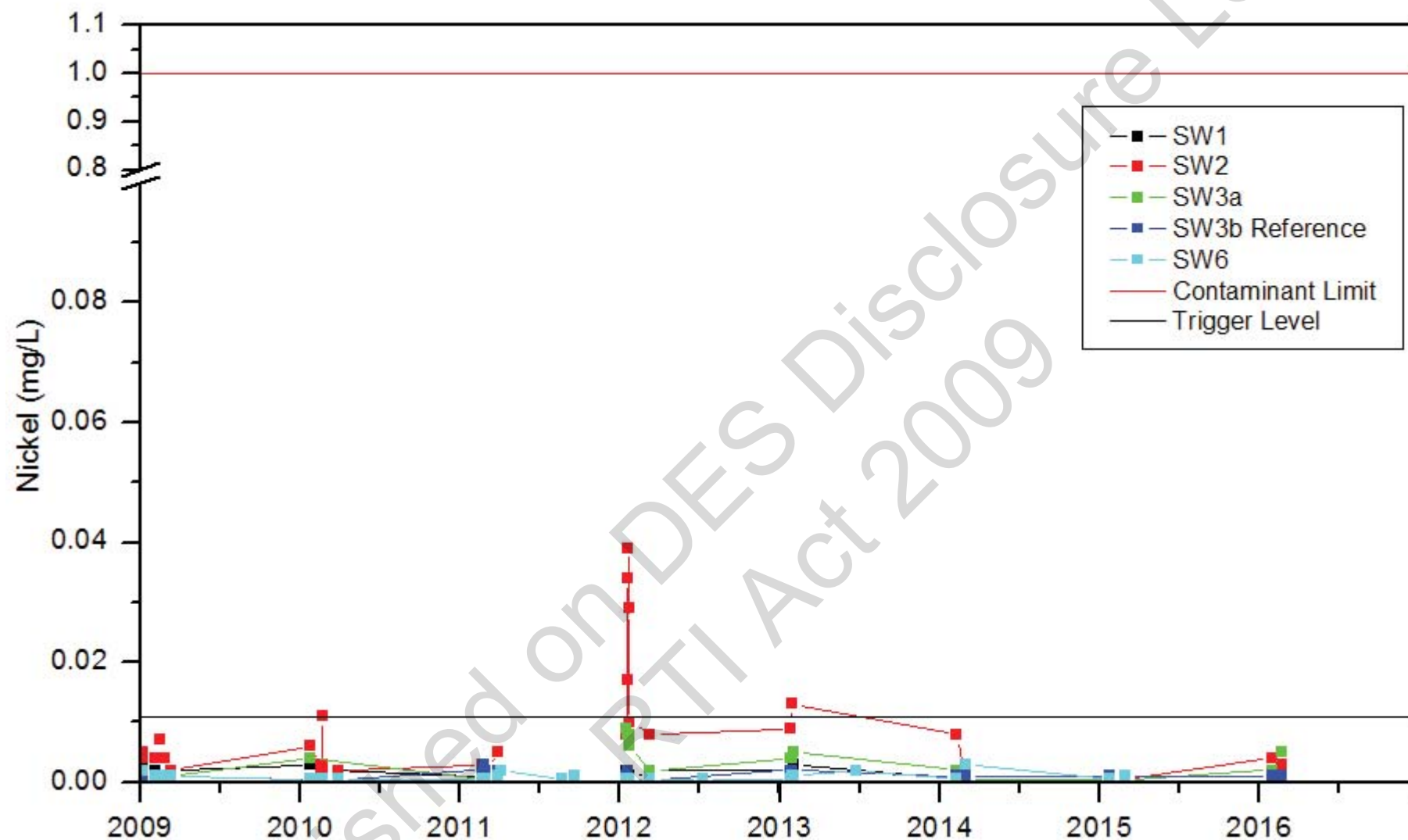


Figure 94: Surface Waters – All Sites Time Series for Nickel

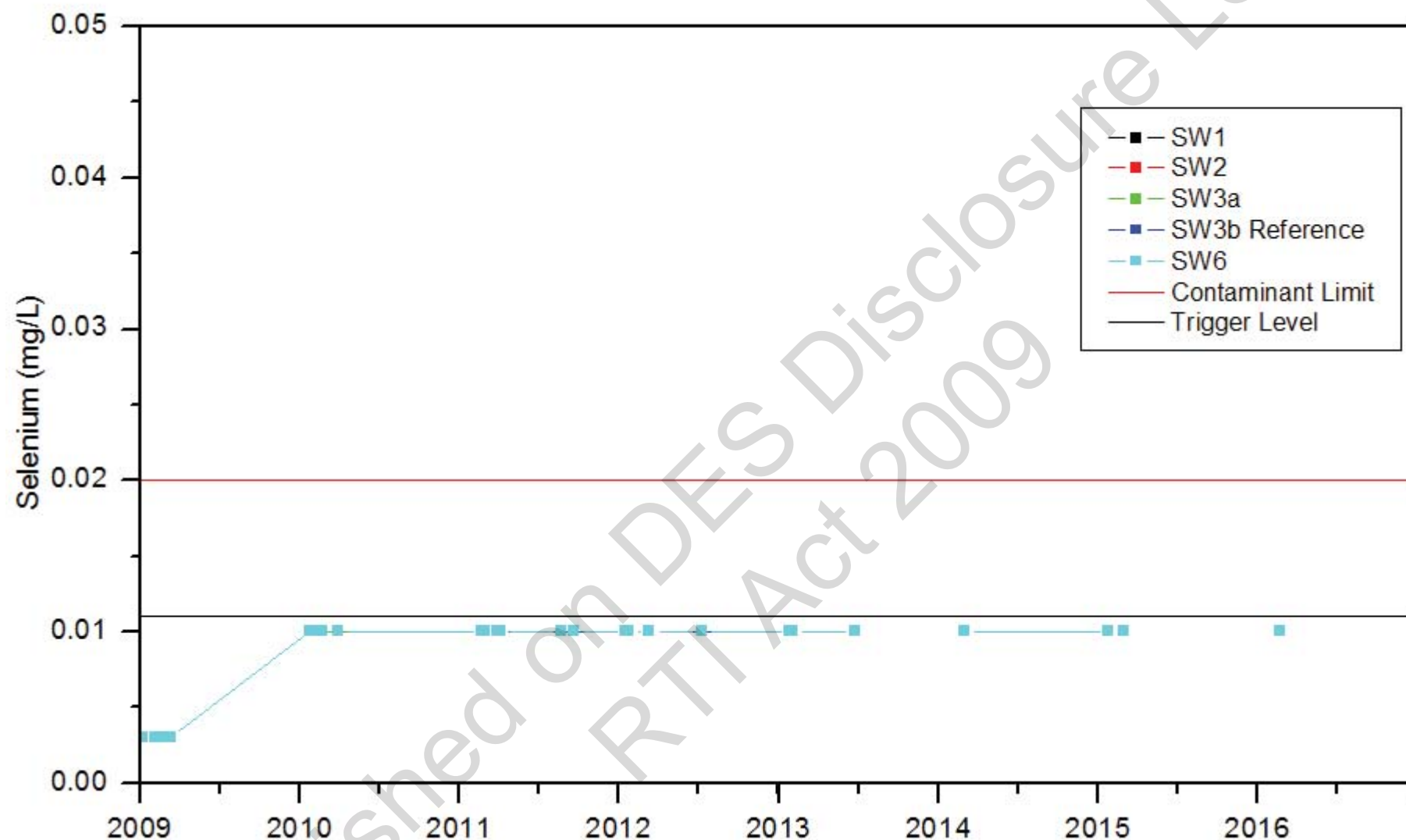


Figure 95: Surface Waters – All Sites Time Series for Selenium

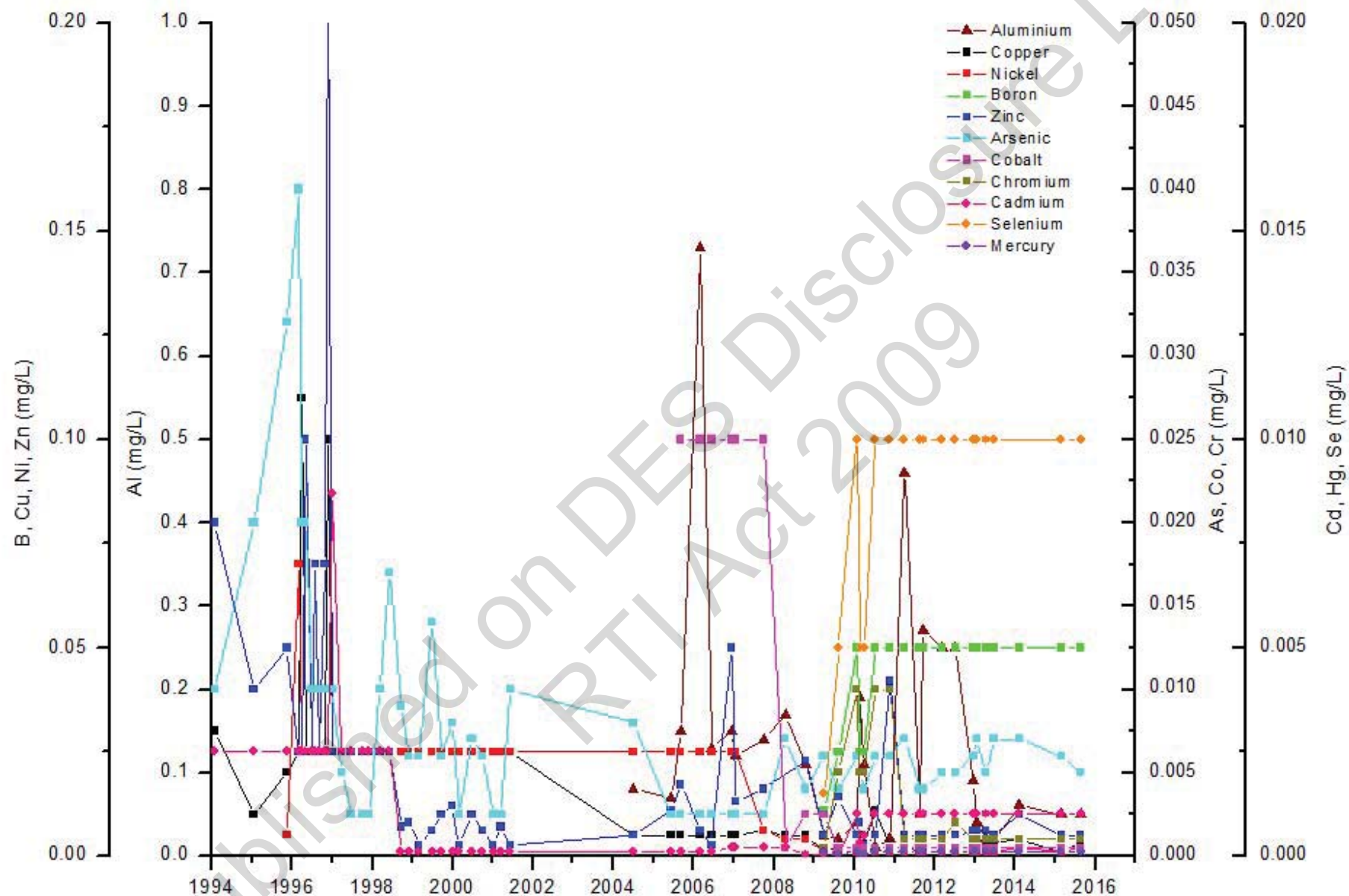


Figure 96: Golden Butterfly North Pit Lake – Metal concentration versus time

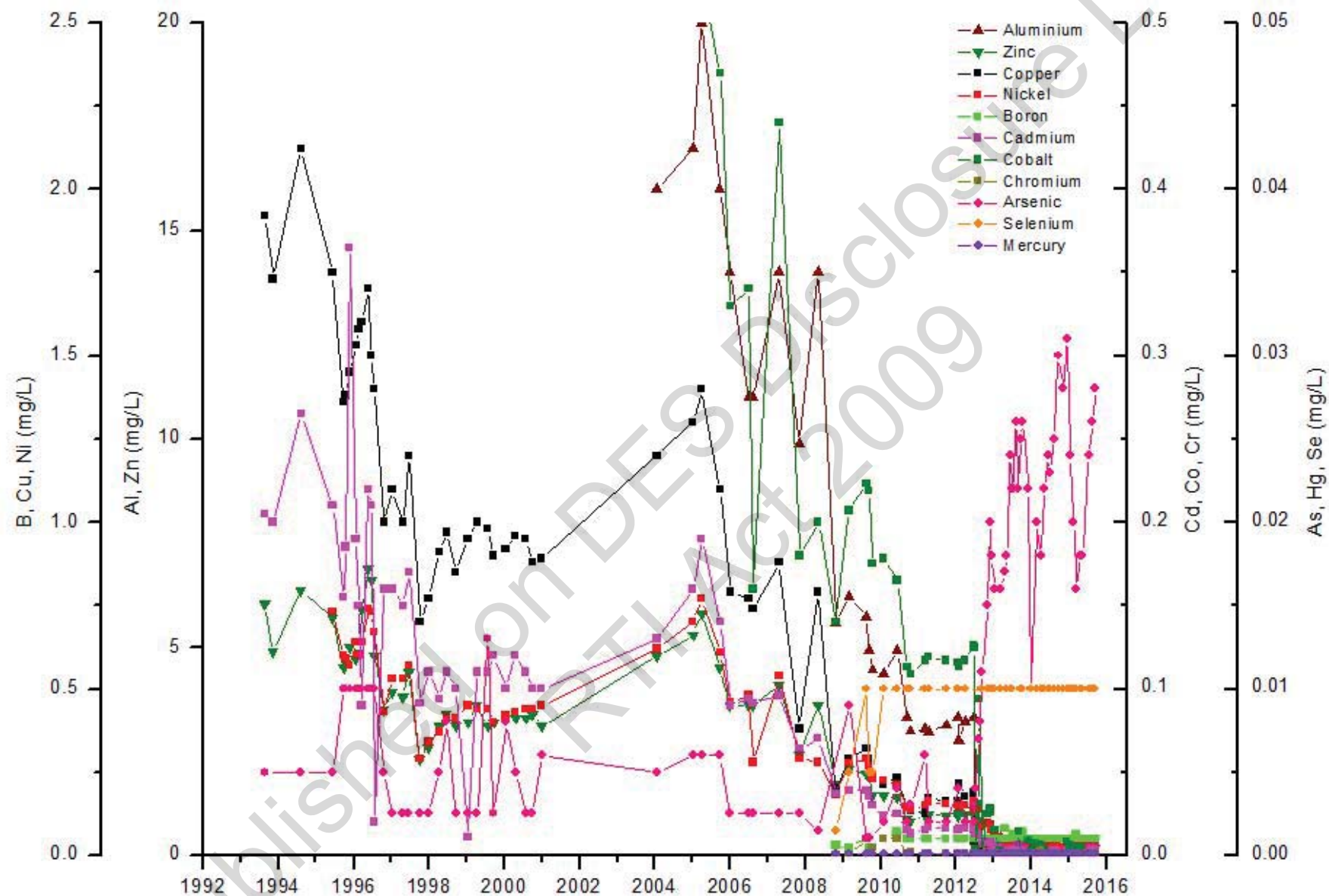


Figure 97: Lady Isabella Pit Lake – Metal concentration versus time

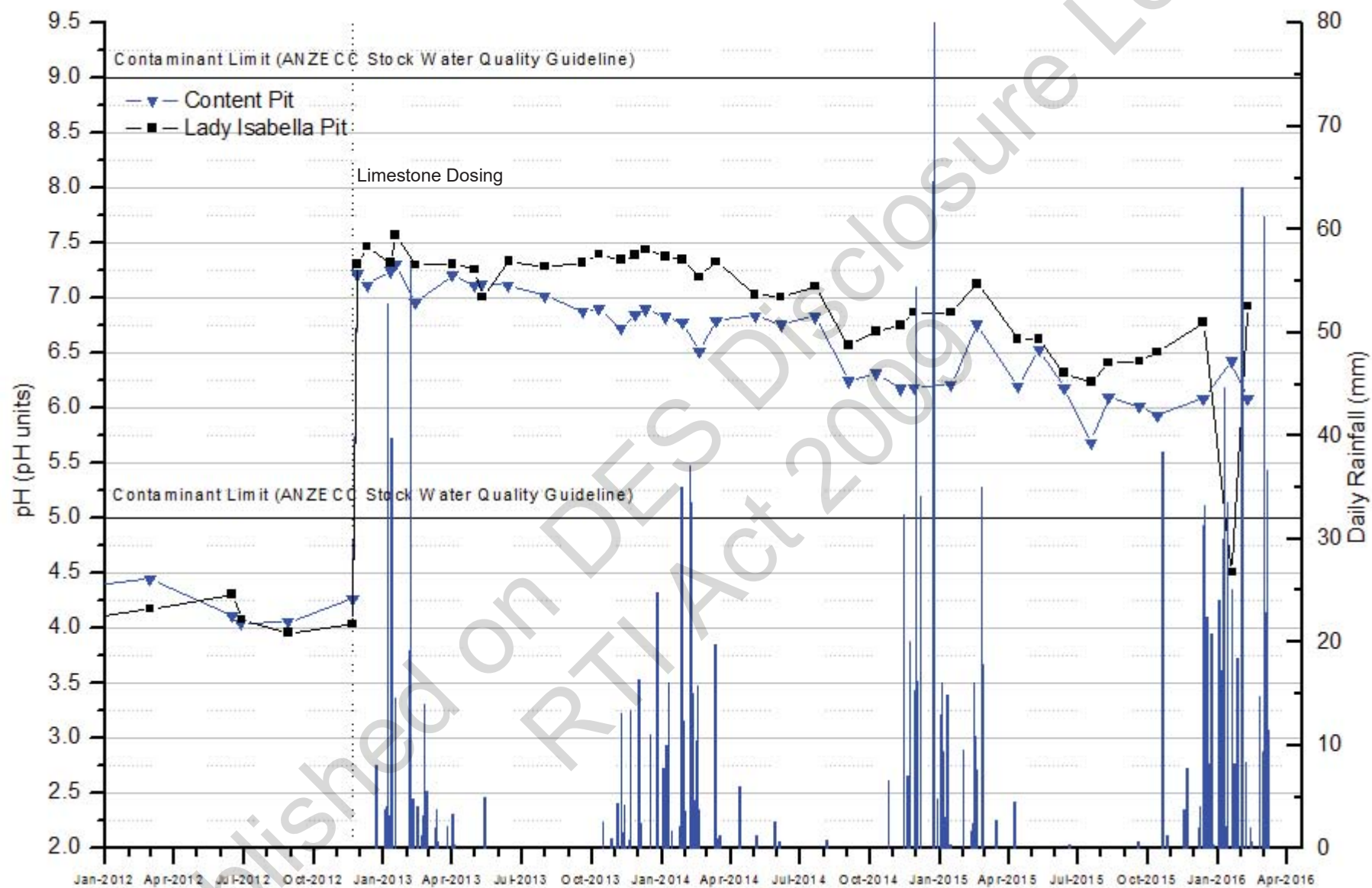


Figure 98: Lady Isabella Pit - pH versus Time

[illegible]

[illegible]

[illegible]





| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Aluminum<br>mg/L | Cadmium<br>mg/L | Calcium<br>mg/L | Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulfate<br>mg/L | Zinc<br>mg/L | Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium<br>mg/L | Chloride<br>mg/L | Hydroxide<br>mg/L | Carbonate<br>mg/L | Bicarbonate<br>mg/L | Total Alkal<br>mg/L | Total Iron<br>mg/L |       |
|------------|------|-------------|-------------|-----------------|------------------|-----------------|-----------------|----------------|--------------|--------------|-------------------|-------------------|----------------|----------------|-----------------|--------------|----------------|------------------|------------------|---------------|------------------|-----------------|------------------|-------------------|------------------|-------------------|-------------------|---------------------|---------------------|--------------------|-------|
| 20/4/2009  | 6    | 110         |             | <0.001          | <0.01            | <0.0001         |                 | <0.001         | <0.05        | <0.001       |                   |                   | <0.001         |                |                 |              |                |                  |                  |               | <0.05            | <0.001          | <0.001           | <0.01             |                  |                   |                   |                     |                     |                    |       |
| 10/8/2009  | 6.51 | 127         |             | 0.022           | 0.08             | <0.0001         |                 | 0.001          |              |              |                   |                   | 0.002          |                | 16              | 0.028        | <0.005         | 0.42             | 7                | 0.014         | <0.001           | <0.0002         | <0.003           |                   |                  |                   |                   |                     |                     |                    |       |
| 22/02/2010 | 6.58 | 155         |             | 0.008           | 0.03             | 0.0016          | 2               | 0.01           | <0.05        |              | <1                |                   | 0.004          | 23             | 10              | 0.04         | 0.001          | 0.7              | 0.5              | <0.05         | <0.010           | <0.001          | <0.01            | 4                 | 11               | <1                | <1                |                     | 36                  | 36                 |       |
| 29/03/2010 | 7.19 | 147         |             | 0.01            | 0.04             | <0.0001         |                 | 0.01           |              |              |                   |                   | 0.003          |                | 10              | 0.014        | 0.001          | 0.7              | 0.6              | <0.05         | <0.01            | <0.0001         | <0.001           |                   |                  |                   |                   |                     |                     |                    |       |
| 10/07/2010 | 6.51 | 124         |             | 0.003           | 0.03             | <0.0001         |                 |                | 0.002        | <0.05        | <1                |                   | 0.001          | 22             | 8               | 0.068        | <0.001         | 0.6              | 0.2              | <0.05         | <0.010           | <0.001          | <0.01            | 3                 | 12               | <1                | <1                |                     | 20                  | 20                 |       |
| 20/11/2010 | 7.5  | 118         |             | 0.018           | 0.04             | <0.0001         | <1              | <0.001         | <0.05        |              | <1                |                   | 0.001          | 20             | 13              | 0.056        | <0.001         | 0.5              | <0.1             | <0.05         | <0.010           | <0.001          | <0.01            | 3                 | 13               | <1                | <1                |                     | 15                  | 15                 | <0.05 |
| 22/08/2011 | 5.31 | 110         |             | 0.003           | 0.02             | <0.0001         |                 | 1              | 0.005        | <0.05        | <1                |                   | 0.002          | 16             | 12              | 0.045        | 0.001          | <0.1             | 1                | <0.05         | <0.001           | <0.001          | <0.01            | 2                 | 13               | <1                | <1                |                     | 20                  | 20                 |       |
| 20/09/2011 | 5.39 | 118         |             | 0.002           | 0.02             | <0.0001         |                 | 1              | 0.002        | <0.05        | <1                |                   | 0.002          | 18             | 12              | 0.02         | 0.002          | 0.1              | 0.6              | <0.05         | <0.001           | <0.001          | <0.01            | 2                 | 13               | <1                | <1                |                     | 14                  | 14                 |       |
| 08/07/2012 | 6.06 | 123         |             | 0.006           | 0.03             | 0.0001          | 3               | 0.005          | <0.05        |              | <1                |                   | 0.003          | 18             | 15              | 0.029        | 0.002          | 0.2              | 1.3              | <0.05         | 0.002            | <0.001          | <0.01            | 3                 | 12               | <1                | <1                |                     | 12                  | 12                 |       |
| 24/06/2013 | 6.14 | 154         |             | 0.013           | 0.04             | 0.0001          | 2               | 0.002          | <0.05        |              | <1                |                   | 0.004          | 23             | 24              | 0.04         | <0.001         | 0.8              | 1.3              | <0.05         | <0.001           | <0.001          | <0.01            | 3                 | 12               | <1                | <1                |                     | 25                  | 25                 |       |
| 31/7/2014  | 6.56 | 210         |             | 0.022           | <0.01            | <0.0001         |                 | 3              | 0.004        | <0.05        |                   | 1                 | 0.005          | 37             | 35              | 0.04         | <0.001         | 1.4              | 0.9              | <0.05         | <0.001           | <0.001          | <0.01            | 7                 | 15               | <1                | <1                |                     | 35                  | 35                 |       |
| 20/08/2015 | 6.54 | 226         |             | 0.021           | 0.03             | <0.0001         | 3               | 0.006          | <0.05        |              |                   | 1                 | 0.004          | 34             | 41              | 0.039        | <0.001         | 1.1              | 1.1              | <0.05         | <0.001           | <0.001          | <0.01            | 6                 | 21               | <1                | <1                |                     | 35                  | 35                 |       |

| DATE | pH | EC<br>uS/cm | TDS<br>mg/L | Asaric |        |       |         | Aluminum |       |         |      | Calcium<br>mg/L | Cadmium<br>mg/L | Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Manganese |      |        |      | Methylphenol<br>mg/L | Nickel |      |        |      | Sodium<br>mg/L | Sulfate<br>mg/L | Zinc   |      |        |      | Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron  |      |        |      | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium<br>mg/L | Chloride<br>mg/L | Hydroxide<br>mg/L | Carbonate<br>mg/L | Bicarbonate<br>mg/L | Total Alkal<br>mg/L | Iron - Total<br>mg/L |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |       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       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|----|-------------|-------------|--------|--------|-------|---------|----------|-------|---------|------|-----------------|-----------------|----------------|--------------|--------------|-----------|------|--------|------|----------------------|--------|------|--------|------|----------------|-----------------|--------|------|--------|------|----------------|------------------|------------------|--------|------|--------|------|------------------|-----------------|------------------|-------------------|------------------|-------------------|-------------------|---------------------|---------------------|----------------------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      |    |             |             | mg/L   | <0.001 | <0.01 | <0.0001 | mg/L     | <0.05 | <0.0001 | mg/L |                 |                 |                |              |              | <0.001    | mg/L | <0.001 | mg/L |                      | <0.001 | mg/L | <0.001 | mg/L |                |                 | <0.001 | mg/L | <0.001 | mg/L |                |                  |                  | <0.001 | mg/L | <0.001 | mg/L |                  |                 |                  |                   |                  |                   |                   |                     |                     |                      | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L | <0.001 | mg/L |

| DATE       | pH   | EC<br>µS/cm | TDS<br>mg/L | <0.001          |                  | <0.0001         | <0.001          |                | <0.001       | <0.05          | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | <0.001         |                 | <0.001       | <0.001         | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | <0.05            |                 | <0.0001        | <0.001  | <0.01 |    | Potassium<br>mg/L | Chloride<br>mg/L | Hydroxide<br>mg/L | Carbonate<br>mg/L | Bicarbonate<br>mg/L | Total Alkal<br>mg/L | Iron - Total<br>mg/L |
|------------|------|-------------|-------------|-----------------|------------------|-----------------|-----------------|----------------|--------------|----------------|--------------|-------------------|-------------------|--------------------|----------------|-----------------|--------------|----------------|------------------|------------------|---------------|------------------|-----------------|----------------|---------|-------|----|-------------------|------------------|-------------------|-------------------|---------------------|---------------------|----------------------|
|            |      |             |             | Arsenic<br>mg/L | Aluminum<br>mg/L | Cadmium<br>mg/L | Calcium<br>mg/L | Copper<br>mg/L | Iron<br>mg/L | Nickel<br>mg/L |              |                   |                   |                    | Sodium<br>mg/L | Sulfate<br>mg/L | Zinc<br>mg/L | Cobalt<br>mg/L |                  |                  |               | Chromium<br>mg/L | Mercury<br>mg/L | Silver<br>mg/L |         |       |    |                   |                  |                   |                   |                     |                     |                      |
| 2/04/2009  | 11.6 | 1900        |             | 0.003           | <0.05            | <0.0001         |                 | 0.007          |              |                |              |                   |                   |                    | 0.008          | 540             | <0.005       | <0.005         | 0.67             | 140              | 0.01          | 0.007            | <0.0002         | <0.003         |         |       |    |                   |                  |                   |                   |                     |                     |                      |
| 11/08/2009 | 11.4 | 1980        |             | 0.002           | 0.02             | <0.0001         |                 | 0.012          |              |                |              |                   |                   |                    | 0.011          | 554             | 0.012        | 0.004          | 0.5              | 6.8              | <0.05         | <0.010           | <0.0001         | <0.01          |         |       |    |                   |                  |                   |                   |                     |                     |                      |
| 24/02/2010 | 11.3 | 1760        |             | 0.002           | 0.1              | 0.0003          | 36              | 0.01           | <0.05        |                | <1           |                   |                   |                    | 0.007          | 209             | 505          | <0.005         | 0.004            | <0.1             | 5.3           | <0.05            | 0.015           | <0.0001        | <0.01   |       | 44 | 17                | <1               |                   | 24                | 4                   | 28                  |                      |
| 29/03/2010 | 7.58 | 2750        |             | 0.013           | <0.01            | <0.0001         |                 | 0.005          |              |                |              |                   |                   |                    | 0.009          | 1260            | 0.026        | 0.027          | 2.3              | 0.9              | <0.05         | <0.01            | <0.0001         | <0.01          |         |       |    |                   |                  |                   |                   |                     |                     |                      |
| 11/07/2010 | 11.7 | 2140        |             | 0.001           | <0.01            | <0.0001         | 101             | 0.007          | 0.1          |                |              |                   |                   |                    | 0.007          | 206             | 593          | 0.008          | 0.001            | 0.7              | 32            | <0.05            | <0.010          | <0.0001        | <0.01   |       | 43 | 18                | 155              | 37                | <1                |                     | 192                 |                      |
| 20/11/2010 | 7.92 | 2670        |             | 0.02            | <0.01            | <0.0001         | 367             | 0.002          | 0.35         |                |              |                   |                   |                    | 0.006          | 310             | 1280         | 0.035          | 0.02             | 2.4              | 24            | <0.05            | <0.010          | <0.0001        | <0.01   |       | 19 | 35                | <1               |                   | 261               | 261                 | 5.22                |                      |
| 22/08/2011 | 7.36 | 2700        |             | 0.012           | <0.01            | <0.0001         | 331             | 0.001          | 2.26         |                | 42           |                   |                   |                    | 0.005          | 302             | 1260         | 0.03           | 0.019            | 2.9              | 27            | <0.05            | <0.001          | <0.0001        | <0.01   |       | 18 | 34                | <1               |                   | 340               | 340                 |                     |                      |
| 20/09/2011 | 7.16 | 2680        |             | 0.004           | <0.01            | 0.0001          | 330             | 0.001          | <0.05        |                | 39           |                   |                   |                    | 0.008          | 298             | 1190         | 0.078          | 0.007            | 2.9              | 3             | <0.05            | <0.001          | <0.0001        | <0.01   |       | 22 | 35                | <1               |                   | 334               | 334                 |                     |                      |
| 08/07/2012 | 7.15 | 2730        |             | 0.003           | <0.01            | <0.0001         | 332             | 0.002          | <0.05        |                | 39           |                   |                   |                    | 0.005          | 284             | 1290         | 0.015          | 0.014            | 3                | 20            | <0.05            | 0.002           | <0.0001        | <0.01   |       | 20 | 34                | <1               |                   | 320               | 320                 |                     |                      |
| 24/06/2013 | 7.28 | 2580        |             | 0.008           | <0.01            | <0.0001         | 308             | 0.002          | 0.16         |                | 36           |                   |                   |                    | 0.008          | 270             | 1250         | 0.043          | 0.003            | 3.2              | 4.6           | <0.05            | <0.001          | <0.0001        | <0.01   |       | 15 | 43                | <1               |                   | 278               | 278                 |                     |                      |
| 31/7/2014  | 7.26 | 2530        |             | 0.047           | <0.01            | <0.0001         | 327             | 0.002          | 3.6          |                | 40           |                   |                   |                    | 0.007          | 331             | 1230         | 0.015          | 0.015            | 3.7              | 7.8           | <0.05            | <0.001          | <0.0001        | <0.01   |       | 20 | 37                | <1               |                   | 281               | 281                 |                     |                      |
| 20/08/2015 | 7.53 | 2610        |             | 0.007           | <0.01            | <0.0001         | 287             | 0.011          | <0.05        |                | 34           |                   |                   |                    | 0.001          | 272             | 968          | 0.027          | <0.001           |                  | 3             | 0.9              | <0.05           | <0.001         | <0.0001 | <0.01 |    | 16                | 32               | <1                |                   | 270                 | 270                 |                      |

| DATE | pH | EC | TDS | Arsenic |       | Aluminum |       | Cadmium | Calcium | Copper | Iron   |       | Lead | Magnesium | Manganese | Nickel | Sodium | Sulfate | Zinc | Cobalt |       | Fluoride | NTU | Totality | Bromine |        | Chlorine |        | Mercury | Selenium | Potassium | Chloride | Hydroxide | Carbonate | Bicarbonate | Total Alkal | Iron - Total |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   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       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------|----|----|-----|---------|-------|----------|-------|---------|---------|--------|--------|-------|------|-----------|-----------|--------|--------|---------|------|--------|-------|----------|-----|----------|---------|--------|----------|--------|---------|----------|-----------|----------|-----------|-----------|-------------|-------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      |    |    |     | <0.001  | <0.01 | <0.001   | <0.05 |         |         |        | <0.001 | <0.05 |      |           |           |        |        |         |      | <0.001 | <0.05 |          |     |          | <0.001  | <0.001 | <0.05    | <0.001 |         |          |           |          |           |           |             |             |              | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Ammonia<br>mg/L | Cadmium<br>mg/L | Calcium<br>mg/L | Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulphate<br>mg/L | Zinc<br>mg/L | Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Bromine<br>mg/L | Chlorine<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium<br>mg/L | Chloride<br>mg/L | Hydroxide<br>mg/L | Carbonate<br>mg/L | Bicarbonate<br>mg/L | Total Alkalinity<br>mg/L | Iron - Total<br>mg/L |  |  |
|------------|------|-------------|-------------|-----------------|-----------------|-----------------|-----------------|----------------|--------------|--------------|-------------------|-------------------|--------------------|----------------|----------------|------------------|--------------|----------------|------------------|------------------|-----------------|------------------|-----------------|------------------|-------------------|------------------|-------------------|-------------------|---------------------|--------------------------|----------------------|--|--|
| 2004/2009  | 7.2  | 1800        |             | <0.001          | <0.01           | <0.0001         |                 | <0.001         | <0.05        | <0.001       |                   |                   |                    | <0.001         |                |                  |              |                |                  |                  | <0.05           | <0.001           | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |
| 11/06/2009 | 7.81 | 1680        |             | 0.020           | <0.05           | <0.0001         |                 | 0.002          |              |              |                   |                   |                    | 0.002          | 200            | 0.017            | <0.005       | 4.4            | 15               | 0.023            | <0.001          | <0.0002          | <0.0003         |                  |                   |                  |                   |                   |                     |                          |                      |  |  |
| 26/02/2010 | 7.67 | 1610        |             | 0.015           | <0.01           | 0.0004          |                 | 0.001          |              |              |                   |                   |                    | 0.002          | 202            | 0.018            | <0.001       | 4.1            | 11               | <0.05            | <0.010          | <0.0001          | <0.01           |                  |                   |                  |                   |                   |                     |                          |                      |  |  |
| 29/03/2010 | 8.13 | 1530        |             | 0.044           | <0.01           | <0.0001         |                 | 0.003          |              |              |                   |                   |                    | 0.001          | 187            | <0.005           | 0.004        | 4.5            | 55               | <0.05            | <0.010          | <0.0001          | <0.01           |                  |                   |                  |                   |                   |                     |                          |                      |  |  |
| 11/07/2010 | 7.81 | 1640        |             | 0.017           | <0.01           | <0.0001         |                 | 28             | <0.001       | 0.05         |                   |                   |                    | <0.001         | 282            | 176              | 0.03         | <0.001         | 3.8              | 0.1              | <0.05           | <0.010           | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |
| 20/11/2010 | 8.44 | 1400        |             | 0.024           | <0.01           | <0.0001         |                 | 28             | <0.001       | <0.05        |                   |                   |                    | <0.001         | 287            | 186              | 0.025        | <0.001         | 4.2              | 85               | <0.05           | <0.010           | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |
| 22/06/2011 | 7.69 | 1380        |             | 0.019           | <0.01           | <0.0001         |                 | 25             | 0.001        | <0.05        |                   |                   |                    | <0.001         | 272            | 182              | 0.022        | <0.001         | 4.9              | 45               | <0.05           | <0.001           | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |
| 20/09/2011 | 7.4  | 1380        |             | 0.017           | <0.01           | <0.0001         |                 | 25             | <0.001       | <0.05        |                   |                   |                    | <0.001         | 280            | 173              | <0.005       | <0.001         | 4.6              | 2.6              | <0.05           | <0.001           | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |
| 08/07/2012 | 7.39 | 1450        |             | 0.019           | <0.01           | <0.0001         |                 | 26             | 0.002        | <0.05        |                   |                   |                    | <0.001         | 252            | 191              | 0.008        | <0.001         | 4.6              | 3.3              | <0.05           | 0.003            | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |
| 24/06/2013 | 7.53 | 1450        |             | 0.017           | 0.01            | <0.0001         |                 | 26             | 0.004        | <0.05        |                   |                   |                    | 0.004          | 247            | 174              | 0.014        | <0.001         | 4.6              | 1.5              | <0.05           | <0.001           | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |
| 31/7/2014  | 7.39 | 1540        |             | 0.094           | <0.01           | <0.0001         |                 | 30             | 0.002        | 3.62         |                   |                   |                    | 0.003          | 337            | 200              | 0.009        | 0.015          | 5.2              | 5.7              | <0.05           | <0.001           | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |
| 20/06/2015 | 7.54 | 1550        |             | 0.02            | 0.02            | <0.0001         |                 | 25             | 0.018        | <0.05        |                   |                   |                    | 0.002          | 262            | 159              | 0.03         | 0.003          | 4.5              | 1.6              | <0.05           | <0.001           | <0.0001         | <0.01            |                   |                  |                   |                   |                     |                          |                      |  |  |

|  |  |  |  | <0.001 | <0.001 | <0.001 | <0.001 | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.05 | <0.001 | <0.001 | <0.001 | <0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | < |
|--|--|--|--|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----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|--|--|--|--|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----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[illegible]

| pH   | EC   | TDS | <0.001 |      | <0.01   |       | <0.05  |       | <0.1  |        | <0.01  |         | <0.01 |        | <0.01  |       | <0.01  |      | Fluoride | Turbidity | Barium | Chromium | Mercury | Selenium | Potassium | Chloride | Alkalinity | Alkalinity | Alkalinity | Alkalinity as CaCO3 |
|------|------|-----|--------|------|---------|-------|--------|-------|-------|--------|--------|---------|-------|--------|--------|-------|--------|------|----------|-----------|--------|----------|---------|----------|-----------|----------|------------|------------|------------|---------------------|
|      |      |     | mg/L   | mg/L | mg/L    | mg/L  | mg/L   | mg/L  | mg/L  | mg/L   | mg/L   | mg/L    | mg/L  | mg/L   | mg/L   | mg/L  | mg/L   | mg/L |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.18 | 5460 |     | 0.005  |      | 0.0025  |       | 0.03   | 0.5   | 0.03  |        | 0.09   |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.3  | 50   |     | 0.01   |      | 0.0025  |       | 0.025  | 8     | 0.1   |        |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.8  | 70   |     | 0.01   |      | 0.0016  |       | 0.025  | 0.13  | 0.025 |        |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.3  | 70   |     | 0.01   |      | 0.00025 |       | 0.025  | 2.4   | 0.025 |        |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.6  | 88   |     | 0.01   |      | 0.0005  |       | 0.025  | 5.8   | 0.07  |        |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6    | 89   |     | 0.005  |      | 0.00025 |       | 0.025  | 3.3   | 0.041 |        | 0.025  |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.2  | 89   |     | 0.0025 |      | 0.00025 |       | 0.025  | 2.4   | 0.029 |        |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6    | 150  |     | 0.016  |      | 0.0011  |       | 0.025  | 3.8   | 0.043 |        | 0.28   |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.3  | 160  |     | 0.008  |      | 0.0007  |       | 0.025  | 1.5   | 0.018 |        | 0.25   |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.7  | 38   |     | 0.0025 |      | 0.00025 |       | 0.025  | 1.7   | 0.014 |        | 0.025  |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.5  | 150  |     | 0.0025 |      | 0.00025 |       | 0.025  | 1.2   | 0.018 |        | 0.025  |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.6  | 71   |     | 0.018  |      | 0.0001  |       | 0.025  | 1.4   | 0.017 |        | 0.025  |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.9  | 83   |     | 0.022  |      | 0.0001  |       | 0.025  | 1.9   | 0.012 |        | 0.08   |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.2  | 68   |     | 0.016  |      | 0.0001  |       | 0.025  | 1.5   | 0.037 |        | 0.07   |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.7  | 71   |     | 0.013  |      | 0.0001  |       | 0.025  | 2.2   | 0.012 |        | 0.025  |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.7  | 82   | 180 | 0.018  |      | 0.0001  | 1.4   | 0.025  | 3.1   | 0.008 | 0.8    | 0.025  |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.9  | 120  | 250 | 0.011  |      | 0.0001  | 2     | 0.025  | 3     | 0.013 | 1.2    | 0.16   |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.8  | 82   | 180 | 0.006  |      | 0.0001  | 0.8   | 0.025  | 2     | 0.013 | 0.25   | 0.05   |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.8  | 66   | 150 | 0.005  |      | 0.0001  | 0.6   | 0.025  | 2.3   | 0.014 | 0.6    | 0.05   |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.8  | 65   |     | 0.008  |      | 0.0001  | 0.025 | 2.1    | 0.006 |       | 0.05   |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.4  | 83   |     | 0.009  |      | 0.0001  | 0.025 | 2.2    | 0.014 |       | 0.14   |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.9  | 72   |     | 0.01   |      | 0.0001  | 0.025 | 3      | 0.008 |       | 0.09   |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.7  | 69   |     | 0.012  |      | 0.0001  | 0.025 | 1.6    | 0.005 |       | 0.025  |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.2  | 94   |     | 0.007  | 0.12 | 0.0001  | 0.005 | 2.3    | 0.009 |       | 0.12   | 0.025  | <0.05   |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.3  | 110  |     | 0.008  | 4.8  | 0.0001  | 0.005 | 2.5    | 0.018 |       | 0.15   | 0.025  | <0.05   |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.2  | 58   |     | 0.006  | 0.29 | 0.0001  | 0.005 | 1.4    | 0.004 |       | 0.025  | 0.025  | <0.05   |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.4  | 64   |     | 0.0025 | 0.83 | 0.0001  | 0.01  | 0.93   | 0.005 |       | 0.025  | 0.025  | <0.05   |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6    | 64   |     | 0.0025 | 2.3  | 0.0001  | 0.005 |        | 0.008 |       | 0.025  | 0.025  | <0.05   |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.2  | 92   |     | 0.0025 | 0.27 | 0.0001  | 0.005 |        | 0.005 |       | 0.025  | 0.025  | <0.05   |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6    | 110  |     | 0.0025 | 0.07 | 0.0001  | 0.001 | 0.002  | 0.002 | 0.002 | <0.002 | 0.018  | <0.05   |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.7  | 85   |     | 0.0025 | 0.26 | 0.0001  | 0.004 | 0.004  | 0.004 |       | 0.025  | 0.003  | 4       | 0.031 | <0.005 |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.8  | 53   |     | 0.003  | 0.2  | <0.0001 | 0.006 |        | 0.002 | 0.012 |        | 0.0025 | <0.0001 |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.7  | 34   |     | 0.005  | 0.05 | <0.0001 | 0.002 |        |       |       |        |        |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.75 | 183  |     | 0.021  | 0.07 | <0.0001 | 0.002 |        |       |       |        | 0.003  |         |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 7.01 | 813  |     | 0.005  | 0.2  | <0.0001 | 0.002 |        |       |       |        | <0.001 | <0.001  |       |        |        |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.71 | 233  |     | 0.009  | 0.15 | <0.0001 | <1    | 0.003  | 0.92  | <1    |        | <0.001 | 8       | 1     | 0.114  | <0.001 |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.16 | 102  |     | 0.017  | 0.07 | <0.0001 | <1    | 0.003  | 1.48  | <1    |        | <0.001 | 6       | 1     | 0.062  | <0.001 |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.84 | 61   |     | 0.016  | 0.21 | <0.0001 | 1     | <0.001 | 5.23  | <1    |        | <0.001 | 7       | <1    | 0.014  | 0.002  | <1    |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 5.80 | 33   |     | 0.003  | 3.76 | <0.0001 | <1    | <0.001 | 0.74  | <1    |        | <0.001 | 5       | 11    | 0.11   | <0.001 |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 7.2  | 501  |     | 0.013  | 0.71 | <0.0001 | 1     | 0.002  | 5.62  |       |        |        |         |       |        | 1      | 0.002 | <0.001 |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 6.52 | 218  |     | 0.038  | 2.2  | <0.0001 | 2     | 0.001  | 18.2  | 2     |        | 0.004  | 14      | 1     | 0.018  | 0.007  | <1    |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |
| 7.44 | 292  |     | 0.019  | 0.06 | <0.0001 | 7     | 0.004  | 0.39  | 4     |        | 0.001  | 91      | 59    | 0.002  | <0.001 |       |        |      |          |           |        |          |         |          |           |          |            |            |            |                     |



[illegible]





|            |      |      |      |      |      |        |        |         |         |        |         |         |         |        |        |       |
|------------|------|------|------|------|------|--------|--------|---------|---------|--------|---------|---------|---------|--------|--------|-------|
| 2013/2010  | 6.7  | 87.0 | 0.2  | 14.0 | 2.6  | 0.0    | -0.001 | -0.26   | -0.0001 | -0.01  | -0.001  | 0.002   | -0.0001 | -0.001 | -0.001 | 0.007 |
| 2013/2011  | 6.7  | 82.9 | 0.1  | 13.0 | 4.1  | 0.0    | -0.001 | -0.20   | -0.0001 | 0.0    | 0.002   | 0.004   | -0.0001 | 0.002  | -0.01  | 0.011 |
| 2013/2011  | 6.3  | 84.0 | 0.3  | 13.0 | 4.0  | 0.0    | -0.001 | -0.20   | -0.0001 | 0.0    | 0.002   | 0.000   | -0.0001 | 0.001  | -0.01  | 0.011 |
| 2013/2011  | 6.1  | 86.0 | 0.2  | 14.0 | 4.4  | 0.0    | -0.001 | -0.20   | 0.0     | -0.0   | 0.002   | 0.004   | -0.0001 | 0.002  | -0.01  | 0.012 |
| 2013/2011  | 6.1  | 86.0 | 0.2  | 13.0 | 4.1  | 0.0    | -0.001 | -0.20   | 0.0     | -0.0   | 0.002   | 0.004   | -0.0001 | 0.002  | -0.01  | 0.012 |
| 21/02/2011 | 6.7  | 86.0 | 0.3  | 11.0 | 2.6  | 0.0    | -0.001 | -0.20   | -0.0001 | 0.0    | 0.002   | 0.019   | -0.0001 | 0.002  | -0.01  | 0.013 |
| 30/03/2011 | 6.6  | 86.0 | 0.3  | 12.0 | 3.5  | 0.0    | -0.001 | -0.20   | -0.0001 | -0.001 | 0.017   | -0.0001 | 0.002   | -0.01  | 0.013  | 0.013 |
| 01/03/2011 | 6.0  | 86.0 | 0.3  | 10.0 | 3.0  | 0.0    | -0.001 | -0.20   | 0.0     | 0.0    | 0.002   | 0.017   | -0.0001 | 0.002  | -0.01  | 0.013 |
| 30/03/2011 | 6.2  | 87.0 | -0.1 | 10.0 | 11.0 | -0.01  | 0.002  | -0.20   | -0.0001 | -0.001 | 0.003   | 0.002   | -0.0001 | 0.002  | -0.01  | 0.011 |
| 17-Jan-12  | 6.9  | 86.0 | 0.3  | 17.0 | 10.0 | 0.3    | 0.003  | -0.20   | -0.0001 | -0.001 | 0.002   | -0.0001 | 0.001   | -0.01  | -0.005 |       |
| 18-Jan-12  | 6.2  | 87.0 | 0.1  | 10.0 | 10.0 | 0.0    | -0.001 | -0.20   | -0.0001 | 0.0    | 0.002   | 0.002   | -0.0001 | 0.001  | -0.01  | 0.010 |
| 19-Jan-12  | 6.8  | 87.0 | 0.2  | 17.0 | 8.0  | 0.3    | 0.003  | -0.20   | -0.0001 | -0.001 | 0.004   | -0.0001 | 0.002   | -0.01  | -0.005 |       |
| 20-Jan-12  | 6.3  | 86.0 | 0.1  | 7.0  | 78.0 | 0.4    | 0.002  | -0.20   | -0.0001 | 0.0    | 0.002   | 0.001   | -0.0001 | -0.001 | -0.005 |       |
| 21-Jan-12  | 6.6  | 86.0 | 0.2  | 12.0 | 30.0 | 0.6    | 0.002  | -0.20   | -0.0001 | 0.0    | 0.002   | 0.002   | -0.0001 | -0.001 | -0.005 |       |
| 22-Jan-12  | 6.2  | 10.0 | -0.1 | 2.0  | 36.0 | 0.6    | -0.001 | -0.20   | -0.0001 | 0.0    | -0.001  | -0.001  | -0.0001 | -0.001 | -0.005 |       |
| 23-Jan-12  | 6.4  | 86.0 | 0.1  | 4.0  | 89.0 | 0.0    | -0.001 | -0.20   | -0.0001 | 0.0    | -0.001  | -0.001  | -0.0001 | -0.001 | -0.005 |       |
| 30/03/2012 | 6.16 | 71   | 0.2  | 18   | 121  | 0.16   | -0.001 | -0.20   | -0.0001 | -0.001 | 0.001   | -0.0001 | -0.001  | -0.01  | -0.005 |       |
| 20/01/2013 | 6.34 | 83   | 0.2  | 8    | 34   | 0.36   | 0.001  | -0.20   | -0.0001 | -0.001 | 0.002   | -0.0001 | 0.002   | -0.01  | 0.010  |       |
| 20/01/2013 | 6.32 | 83   | 0.2  | 8    | 36   | 0.46   | -0.001 | -0.20   | -0.0001 | -0.001 | -0.002  | -0.0001 | 0.002   | -0.01  | 0.004  |       |
| 27/01/2013 | 6.1  | 84   | 0.2  | 13   | 18   | 0.30   | -0.001 | -0.20   | -0.0001 | -0.001 | 0.002   | -0.0001 | 0.002   | -0.01  | 0.015  |       |
| 01/02/2014 | 7.28 | 82   | 0.2  | 18   | 0.19 | -0.001 | -0.20  | -0.0001 | -0.001  | -0.002 | -0.0001 | -0.001  | -0.001  | -0.01  | -0.005 | 0.146 |
| 01/03/2014 | 6.37 | 120  | -0.1 | 11   | 51   | 0.14   | -0.001 | -0.20   | -0.0001 | -0.001 | 0.002   | -0.0001 | -0.001  | -0.01  | -0.005 | 0.146 |
| 20/01/2015 | 6.88 | 126  | -0.1 | 6    | 104  | 0.12   | 0.001  | -0.20   | -0.0001 | -0.001 | 0.004   | -0.0001 | -0.001  | -0.01  | -0.012 | 0.146 |
| 20/02/2015 | 7.62 | 80   | 0.2  | 13   | 13.3 | 0.38   | 0.01   | -0.05   | -0.0001 | -0.001 | 0.002   | -0.0001 | -0.001  | -0.01  | -0.005 | 0.146 |
| 20/01/2016 | 6.69 | 140  | 0.2  | 6    | 36.1 | 0.36   | 0.002  | -0.20   | -0.0001 | -0.001 | 0.002   | -0.0001 | -0.001  | -0.01  | -0.005 | 0.146 |
| 19/02/2016 | 7.15 | 120  | 0.2  | 7    | 18.7 | 0.42   | 0.001  | -0.05   | -0.0001 | -0.001 | 0.001   | -0.0001 | -0.001  | -0.01  | -0.005 | 0.146 |

[illegible]



[illegible]

Published on DES Disclosure Log  
RTI Act 2009

Published on DES Disclosure Log  
RTI Act 2009

**From:** CTPI 49-Sch4  
**To:** HUGHES Hazel; FABRIS Fred  
**Cc:** Baumann, Walter; CTPI 49-Sch4; Bornstein, Dan; Alto, Jim; Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** RE: CROYDON EA AMENDMENT APPLICATION  
**Date:** Friday, 29 April 2016 4:03:56 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image004.png](#)  
[image007.png](#)  
[Croydon Surface Water.xlsx](#)  
[Croydon Groundwater.xls](#)

---

Hi Hazel,

As requested, attached are two spreadsheets with the surface water and groundwater raw data.

Regards

CTPI 49-S

---

**From:** HUGHES Hazel [mailto:Hazel.Hughes@ehp.qld.gov.au]  
**Sent:** Wednesday, 27 April 2016 3:23 PM  
**To:** FABRIS Fred; CTPI 49-Sch4  
**Cc:** Baumann, Walter; CTPI 49-Sch4; Bornstein, Dan; Alto, Jim; Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** RE: CROYDON EA AMENDMENT APPLICATION

Dear CTPI 49-S

Thank you for the information to support the proposed environmental authority amendment for the Croydon Gold Mine, April 2016.

The following has been identified from a preliminary review of this information:

- Please provide the raw data for the surface sample sites used to justify the proposed amendments to the environmental authority.
- Certain parameters are proposed to be removed from Schedule F Table 4, please clarify if these amendments are also proposed to Schedule F Table 2.
- Please provide the raw data for the bore sample sites used to justify the proposed amendments to the environmental authority.
- Certain parameters such as fluoride, sulphate, electrical conductivity and pH are proposed to be removed at certain groundwater bore locations. These amendments are proposed only to Schedule F Table 11, please clarify if these amendments are also proposed to Schedule F Table 10.
- The changes proposed in section 2.3 – F11-2(e) is set out in the current environmental authority. Please find attached the current environmental authority.
- Section 2.4 - Partial surrender of the Lease Area should not be included in the application to amend an environmental authority. The application to surrender part of the environmental authority is assessed under sections 257-264 of the *Environmental Protection Act 1994* (EP Act) which available at:

<https://www.legislation.qld.gov.au/LEGISLTN/CURRENT/E/EnvProtA94.pdf>. The surrender application is made with an application form – Application to surrender or partial surrender of an environmental authority – resource activity.

If department approves the partial surrender it will then amend your environmental authority to reflect the approved changes. Information on the surrender application is available at: <https://www.business.qld.gov.au/business/running/environment/licences-permits/surrendering-transferring-environmental-authority/surrender>

Should you require further information, please do not hesitate to contact me on (07) 4222 5308.

Kind Regards

**Hazel Hughes**

Senior

Environmental

Officer

**Minerals &**

**North**

**Queensland**

**Compliance**

**Environmental**

**Services &**

**Regulation**

Department of

Environment

and Heritage

Protection

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P 07 4222

5308 F 07

4222 5070

5b Sheridan

Street Cairns

QLD 4870

PO Box 7230

Cairns QLD

4870

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**From:** FABRIS Fred

**Sent:** Wednesday, 27 April 2016 2:13 PM

**To:** [CTPI 49-Sch4] HUGHES Hazel

**Cc:** Baumann, Walter; [CTPI 49-Sch4] Bornstein, Dan; Alto, Jim; Cadwell, Curtis; Trezise, Teresa; Pitts, Karen

**Subject:** RE: CROYDON EA AMENDMENT APPLICATION

Hi [CTPI 49-Sch4]

We have now been able to download the supporting information, thanks for that. We will review and get advice on the information provided. In the meeting it was suggested it needed to be

read in conjunction with the annual hydrogeological report. Is the document you are referring to the "Croydon Gold Mine Hydrogeological Impact Assessment, Revision 1" dated September 2015 (attached)?

Regards,

**Fred Fabris**

Senior Environmental Officer

**Minerals & North Queensland Compliance | Environmental Services & Regulation**

Department of Environment and Heritage Protection

**Phone:** 07 4222 5335    **Facsimile:** (07) 4222 5070

**Email:** [fred.fabris@ehp.qld.gov.au](mailto:fred.fabris@ehp.qld.gov.au)

5b Sheridan Street, Cairns QLD 4870    Postal address: PO Box 7230, Cairns QLD 4870

---

**From:** [CTPI 49-Sch4] [barrick.com](mailto:barrick.com)  
**Sent:** Wednesday, 27 April 2016 9:32 AM  
**To:** FABRIS Fred; HUGHES Hazel  
**Cc:** Baumann, Walter; [CTPI 49-Sch4] Bornstein, Dan; Alto, Jim; Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** RE: CROYDON EA AMENDMENT APPLICATION

Hi Fred and Hazel,

It seems the upload to the FTP server hasn't worked – my apologies for the glitch and the delay in getting the report to you. I am on-site at present and will try again.

We ticked the box for a major amendment as we thought we would submit the draft supporting documentation and wait for feedback from you on the classification as a minor or major amendment. Of course, we would prefer it to be a minor amendment with lower fees payable.

Regards

[CTPI 49-S]

---

**From:** FABRIS Fred [<mailto:Fred.Fabris@ehp.qld.gov.au>]  
**Sent:** Wednesday, 27 April 2016 9:18 AM  
**To:** [CTPI 49-Sch4] HUGHES Hazel  
**Cc:** Baumann, Walter; [CTPI 49-Sch4] Bornstein, Dan; Alto, Jim; Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** RE: CROYDON EA AMENDMENT APPLICATION

Hi [CTPI 49-S]

I was just double checking that you had not sent a 2<sup>nd</sup> email with the supporting information yet for us to review. I have had a chance to review the draft application form. I note that you have ticked the box for a major amendment. Without looking at the supporting information, first thoughts is that it could be a minor amendment, though I would suggest you look at s223 of the *Environmental Protection Act 1994* to review the criteria. You will need to justify that the amendment application can meet the minor amendment criteria. The fees are significantly higher for a major amendment (includes 30% of the annual fee for the activity).

I also have to inform you that a recent change of the assessment team has Hazel Hughes now looking after Croydon, however in any case I will be working with her on this amendment. Her email is [hazel.hughes@ehp.qld.gov.au](mailto:hazel.hughes@ehp.qld.gov.au) and number is 42225308 but feel free to contact myself

also in the meantime if you have any questions.

Regards,

**Fred Fabris**

Senior Environmental Officer

**Minerals & North Queensland Compliance | Environmental Services & Regulation**

Department of Environment and Heritage Protection

**Phone:** 07 4222 5335    **Facsimile:** (07) 4222 5070

**Email:** [fred.fabris@ehp.qld.gov.au](mailto:fred.fabris@ehp.qld.gov.au)

5b Sheridan Street, Cairns QLD 4870    Postal address: PO Box 7230, Cairns QLD 4870

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**From:** [CTPI 49-Sch4]@barrick.com]  
**Sent:** Thursday, 14 April 2016 5:42 PM  
**To:** FABRIS Fred  
**Cc:** Baumann, Walter; [CTPI 49-Sch4] Bornstein, Dan; Alto, Jim;  
Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** CROYDON EA AMENDMENT APPLICATION

Hi Fred,

As discussed at the meeting on Tuesday, we are submitting the draft EA amendment documents in order to receive feedback on the application. Attached is a copy of the completed EA Application form. I will upload to our FTP site a copy of the report supporting the EA amendment, together with the 2015 Annual Groundwater Report. You will receive a separate email with instructions for downloading the documents from the FTP site.

Regards

[CTPI 49]

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The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

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If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

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**From:** CTPI 49-Sch  
**To:** [HUGHES Hazel](#); [FABRIS Fred](#)  
**Cc:** [Baumann, Walter](#); ["walter benko" \(wladyslawbenko@gmail.com\)](#); [Bornstein, Dan](#); [Alto, Jim](#); [Cadwell, Curtis](#); [Trezise, Teresa](#); [Pitts, Karen](#)  
**Subject:** RE: CROYDON EA AMENDMENT APPLICATION  
**Date:** Friday, 29 April 2016 4:03:56 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image004.png](#)  
[image007.png](#)  
[Croydon Surface Water.xlsx](#)  
[Croydon Groundwater.xls](#)

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Hi Hazel,

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Regards

CTPI 49-Sch

---

**From:** HUGHES Hazel [<mailto:Hazel.Hughes@ehp.qld.gov.au>]  
**Sent:** Wednesday, 27 April 2016 3:23 PM  
**To:** FABRIS Fred; CTPI 49-Sch4  
**Cc:** Baumann, Walter; CTPI 49-Sch4; Bornstein, Dan; Alto, Jim; Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** RE: CROYDON EA AMENDMENT APPLICATION

Dear CTPI 49-S

Thank you for the information to support the proposed environmental authority amendment for the Croydon Gold Mine, April 2016.

The following has been identified from a preliminary review of this information:

- Please provide the raw data for the surface sample sites used to justify the proposed amendments to the environmental authority.
- Certain parameters are proposed to be removed from Schedule F Table 4, please clarify if these amendments are also proposed to Schedule F Table 2.
- Please provide the raw data for the bore sample sites used to justify the proposed amendments to the environmental authority.
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<https://www.legislation.qld.gov.au/LEGISLTN/CURRENT/E/EnvProtA94.pdf>. The surrender application is made with an application form – Application to surrender or partial surrender of an environmental authority – resource activity.

If department approves the partial surrender it will then amend your environmental authority to reflect the approved changes. Information on the surrender application is available at: <https://www.business.qld.gov.au/business/running/environment/licences-permits/surrendering-transferring-environmental-authority/surrender>

Should you require further information, please do not hesitate to contact me on (07) 4222 5308.

Kind Regards

**Hazel Hughes**

Senior

Environmental

Officer

**Minerals &**

**North**

**Queensland**

**Compliance**

**Environmental**

**Services &**

**Regulation**

Department of

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and Heritage

Protection

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P 07 4222

5308 F 07

4222 5070

5b Sheridan

Street Cairns

QLD 4870

PO Box 7230

Cairns QLD

4870

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**From:** FABRIS Fred

**Sent:** Wednesday, 27 April 2016 2:13 PM

**To:** [CTPI 49-Sch4] HUGHES Hazel

**Cc:** Baumann, Walter; [CTPI 49-Sch4] Bornstein, Dan; Alto, Jim; Cadwell, Curtis; Trezise, Teresa; Pitts, Karen

**Subject:** RE: CROYDON EA AMENDMENT APPLICATION

Hi [CTPI 49-Sch4]

We have now been able to download the supporting information, thanks for that. We will review and get advice on the information provided. In the meeting it was suggested it needed to be

read in conjunction with the annual hydrogeological report. Is the document you are referring to the "Croydon Gold Mine Hydrogeological Impact Assessment, Revision 1" dated September 2015 (attached)?

Regards,

**Fred Fabris**

Senior Environmental Officer

**Minerals & North Queensland Compliance | Environmental Services & Regulation**

Department of Environment and Heritage Protection

**Phone:** 07 4222 5335    **Facsimile:** (07) 4222 5070

**Email:** [fred.fabris@ehp.qld.gov.au](mailto:fred.fabris@ehp.qld.gov.au)

5b Sheridan Street, Cairns QLD 4870    Postal address: PO Box 7230, Cairns QLD 4870

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**From:** [CTPI 49-Sch4] [barrick.com](mailto:barrick.com)  
**Sent:** Wednesday, 27 April 2016 9:32 AM  
**To:** FABRIS Fred; HUGHES Hazel  
**Cc:** Baumann, Walter; [CTPI 49-Sch4] Bornstein, Dan; Alto, Jim;  
Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** RE: CROYDON EA AMENDMENT APPLICATION

Hi Fred and Hazel,

It seems the upload to the FTP server hasn't worked – my apologies for the glitch and the delay in getting the report to you. I am on-site at present and will try again.

We ticked the box for a major amendment as we thought we would submit the draft supporting documentation and wait for feedback from you on the classification as a minor or major amendment. Of course, we would prefer it to be a minor amendment with lower fees payable.

Regards

[CTPI 49-S]

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**From:** FABRIS Fred [<mailto:Fred.Fabris@ehp.qld.gov.au>]  
**Sent:** Wednesday, 27 April 2016 9:18 AM  
**To:** [CTPI 49-Sch4] HUGHES Hazel  
**Cc:** Baumann, Walter; [CTPI 49-Sch4] Bornstein, Dan; Alto, Jim;  
Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** RE: CROYDON EA AMENDMENT APPLICATION

Hi [CTPI 49-S]

I was just double checking that you had not sent a 2<sup>nd</sup> email with the supporting information yet for us to review. I have had a chance to review the draft application form. I note that you have ticked the box for a major amendment. Without looking at the supporting information, first thoughts is that it could be a minor amendment, though I would suggest you look at s223 of the *Environmental Protection Act 1994* to review the criteria. You will need to justify that the amendment application can meet the minor amendment criteria. The fees are significantly higher for a major amendment (includes 30% of the annual fee for the activity).

I also have to inform you that a recent change of the assessment team has Hazel Hughes now looking after Croydon, however in any case I will be working with her on this amendment. Her email is [hazel.hughes@ehp.qld.gov.au](mailto:hazel.hughes@ehp.qld.gov.au) and number is 42225308 but feel free to contact myself

also in the meantime if you have any questions.

Regards,

**Fred Fabris**

Senior Environmental Officer

**Minerals & North Queensland Compliance | Environmental Services & Regulation**

Department of Environment and Heritage Protection

**Phone:** 07 4222 5335    **Facsimile:** (07) 4222 5070

**Email:** [fred.fabris@ehp.qld.gov.au](mailto:fred.fabris@ehp.qld.gov.au)

5b Sheridan Street, Cairns QLD 4870    Postal address: PO Box 7230, Cairns QLD 4870

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**From:** [CTPI 49-Sch4] [barrick.com](mailto:barrick.com)  
**Sent:** Thursday, 14 April 2016 5:42 PM  
**To:** FABRIS Fred  
**Cc:** Baumann, Walter; [CTPI 49-Sch4] Bornstein, Dan; Alto, Jim;  
Cadwell, Curtis; Trezise, Teresa; Pitts, Karen  
**Subject:** CROYDON EA AMENDMENT APPLICATION

Hi Fred,

As discussed at the meeting on Tuesday, we are submitting the draft EA amendment documents in order to receive feedback on the application. Attached is a copy of the completed EA Application form. I will upload to our FTP site a copy of the report supporting the EA amendment, together with the 2015 Annual Groundwater Report. You will receive a separate email with instructions for downloading the documents from the FTP site.

Regards

[CTPI 49-S]

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| DATE       |      |             |             |                 |                   |                   |
|------------|------|-------------|-------------|-----------------|-------------------|-------------------|
|            | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Aluminium<br>mg/L | Cadmium<br>mg/L   |
| 21/11/1995 | 6.12 | 2260        |             | <0.001<br>0.01  | <0.01             | <0.0001<br>0.0025 |
| 1/03/1996  | 7.9  | 985         |             |                 |                   |                   |
| 31/05/1996 | 7.2  | 1195        |             |                 |                   |                   |
| 23/09/1996 | 7    | 1100        |             |                 |                   |                   |
| 2/01/1997  | 7    | 1000        |             |                 |                   |                   |
| 31/03/1997 | 7.4  | 1100        |             |                 |                   |                   |
| 24/06/1997 | 7.5  | 1100        |             |                 |                   |                   |
| 4/10/1997  | 6.9  | 1300        |             |                 |                   |                   |
| 5/12/1997  | 6.9  | 1500        |             |                 |                   |                   |
| 18/03/1998 | 7.5  | 1300        |             |                 |                   |                   |
| 7/06/1998  | 6.9  | 1300        |             |                 |                   |                   |
| 6/07/1998  | 6.9  | 1300        |             |                 |                   |                   |
| 21/09/1998 | 7.2  | 1300        |             |                 |                   |                   |
| 6/12/1998  | 6.9  | 1300        |             |                 |                   |                   |
| 4/01/1999  | 7.4  | 1200        |             |                 |                   |                   |
| 28/06/1999 | 6.9  | 1200        | 970         |                 |                   |                   |
| 28/06/1999 | 7.2  | 1300        | 1000        |                 |                   |                   |
| 20/09/1999 | 7.4  | 1300        | 1100        |                 |                   |                   |
| 1/01/2000  | 7.2  | 1300        | 1100        |                 |                   |                   |
| 1/03/2000  | 7.3  | 1300        | 1100        |                 |                   |                   |
| 28/06/2000 | 7.5  | 1400        | 1100        |                 |                   |                   |
| 29/09/2000 | 7.8  | 1300        | 1100        |                 |                   |                   |
| 7/01/2001  | 7.4  | 1300        |             |                 |                   |                   |
| 15/03/2001 | 7.3  | 1300        |             |                 |                   |                   |
| 11/06/2001 | 7.5  | 1200        |             |                 |                   |                   |
| 24/09/2001 | 7.6  | 1300        |             |                 |                   |                   |
| 13/12/2001 | 7.2  | 1400        |             |                 |                   |                   |
| 3/07/2004  | 7.4  | 1300        |             | 0.022           | <0.05             | 0.0001            |
| 9/06/2005  | 7.1  | 1300        |             | 0.013           | <0.05             | 0.0001            |
| 8/09/2005  | 7.1  | 1200        |             | 0.013           | <0.05             | 0.0001            |
| 28/03/2006 | 7    | 1400        |             | 0.012           | <0.05             | 0.0001            |
| 14/06/2006 | 7.4  | 1200        |             | 0.016           | <0.05             | 0.0001            |
| 28/08/2006 | 7.3  | 1300        |             | 0.015           | <0.05             | 0.0001            |
| 14/12/2006 | 7.1  | 1300        |             | 0.017           | <0.05             | 0.0001            |
| 27/02/2007 | 7    | 1300        |             | 0.015           | 0.09              | 0.0002            |
| 2/03/2007  | 7    | 1300        |             | 0.014           | <0.05             | 0.0001            |
| 1/10/2007  | 7.2  | 1200        |             | 0.017           | <0.05             | 0.0001            |
| 12/03/2008 | 7    | 1300        |             | 0.014           | 0.25              | 0.0001            |
| 3/07/2008  | 6.9  | 1400        |             | 0.013           | <0.05             | <0.0001           |
| 2/04/2009  | 7.2  | 1400        |             | 0.012           | <0.05             | <0.0001           |
| 10/08/2009 | 7.61 | 1480        |             | 0.012           | 0.02              | <0.0001           |
| 29/03/2010 | 7.94 | 1420        |             | 0.013           | 0.01              | <0.0001           |
| 22/08/2011 | 8    | 1390        |             | 0.014           | 0.04              | <0.0001           |
| 20/09/2011 | 7.62 | 1410        |             | 0.01            | <0.01             | <0.0001           |
| 07/09/2012 | 7.55 | 1390        |             | 0.013           | <0.01             | <0.0001           |
| 24/06/2013 | 7.82 | 1420        |             | 0.015           | <0.01             | <0.0001           |
| 31/7/2014  | 7.58 | 1360        |             | 0.015           | <0.01             | <0.0001           |
| 20/08/2015 | 7.6  | 1410        |             | 0.014           | 0.01              | <0.0001           |

|         | <0.001 | <0.05  | <0.001 |           |           |            | <0.001 |
|---------|--------|--------|--------|-----------|-----------|------------|--------|
| Calcium | Copper | Iron   | Lead   | Magnesium | Manganese | Molybdenum | Nickel |
| mg/L    | mg/L   | mg/L   | mg/L   | mg/L      | mg/L      | mg/L       | mg/L   |
| 143     | 0.05   | 0.9    | 0.04   | 40        | 1.19      | 0.005      | 0.005  |
|         |        | 1.08   |        |           |           |            |        |
|         |        | 0.025  |        |           |           |            |        |
|         |        | 0.6    |        |           |           |            |        |
|         |        | 0.32   |        |           |           |            |        |
|         |        | 0.16   |        |           |           |            |        |
|         |        | <0.05  |        |           |           |            |        |
|         |        | 2      |        |           |           |            |        |
|         |        | 3.2    |        |           |           |            |        |
|         |        | 0.4    |        |           |           |            |        |
|         |        | <0.05  |        |           |           |            |        |
|         |        | <0.05  |        |           |           |            |        |
|         |        | 0.14   |        |           |           |            |        |
|         |        | 0.13   |        |           |           |            |        |
|         |        | 0.19   |        |           |           |            |        |
|         |        | 0.11   |        |           |           |            |        |
|         |        | 0.07   |        |           |           |            |        |
|         |        | <0.05  |        |           |           |            |        |
|         |        | 0.13   |        |           |           |            |        |
|         |        | <0.05  |        |           |           |            |        |
|         |        | <0.05  |        |           |           |            |        |
|         |        | 2      |        |           |           |            |        |
|         |        | 0.08   |        |           |           |            |        |
|         |        | 0.03   |        |           |           |            |        |
|         |        | 1.7    |        |           |           |            |        |
|         |        | 0.21   |        |           |           |            |        |
|         |        | 0.09   |        |           |           |            |        |
| <0.01   |        |        | 0.001  |           | 0.1       | <0.05      | <0.05  |
|         | 0.01   |        | 0.35   | <0.05     | <0.05     | <0.05      | <0.05  |
|         | 0.01   | <0.05  | 0.001  | <0.05     | <0.05     | <0.05      | <0.05  |
| <0.01   |        | 0.06   | 0.001  |           | 0.05      | <0.05      | <0.05  |
| <0.01   | <0.05  |        | 0.002  | <0.05     | <0.05     | <0.05      | <0.05  |
| <0.01   |        | 0.09   | 0.001  |           | 0.11      | <0.05      | <0.05  |
| <0.01   |        |        | 0.001  |           |           | <0.05      | <0.05  |
|         | 0.01   |        | 0.001  |           |           | <0.05      | <0.05  |
| <0.01   |        |        | 0.001  |           |           | <0.05      | <0.05  |
|         | 0.003  | <0.05  | 0.003  |           | 0.45      | <0.05      | 0.002  |
|         | 0.001  |        | 0.001  |           |           | <0.005     | 0.003  |
| <0.001  |        | <0.001 |        |           |           | <0.005     | 0.002  |
|         | 0.002  |        |        |           |           |            | 0.003  |
|         | 0.003  |        |        |           |           |            | 0.002  |
|         | 0.004  |        |        |           |           |            | <0.001 |
| 135     | 0.002  | <0.05  |        | 25        |           |            | <0.001 |
| 135     | 0.001  | <0.05  |        | 26        |           |            | <0.001 |
| 130     | <0.001 | <0.05  |        | 24        |           |            | <0.001 |
| 128     | <0.001 | <0.05  |        | 26        |           |            | <0.001 |
| 146     | 0.003  | <0.05  |        | 28        |           |            | <0.001 |
| 121     | 0.011  | <0.05  |        | 23        |           |            | 0.004  |



| Selenium<br>mg/L | Potassium<br>mg/L | Chloride<br>mg/L | Alkalinity<br>mg/L | Alkalinity<br>mg/L | Alkalinity<br>mg/L | Alkalinity as CaCO3<br>mg/L |
|------------------|-------------------|------------------|--------------------|--------------------|--------------------|-----------------------------|
|------------------|-------------------|------------------|--------------------|--------------------|--------------------|-----------------------------|

|        |    |    |    |    |     |     |
|--------|----|----|----|----|-----|-----|
| <0.003 |    |    |    |    |     |     |
| <0.01  |    |    |    |    |     |     |
| <0.01  |    |    |    |    |     |     |
| <0.01  | 16 | 21 | <1 | <1 | 265 | 265 |
| <0.01  | 19 | 20 | <1 | <1 | 270 | 270 |
| <0.01  | 16 | 20 | <1 | <1 | 255 | 255 |
| <0.01  | 16 | 26 | <1 | <1 | 232 | 232 |
| <0.01  | 21 | 18 | <1 | <1 | 241 | 241 |
| <0.01  | 16 | 24 | <1 | <1 | 235 | 235 |

| Croydon    |      |       |      |         |           |         |         |
|------------|------|-------|------|---------|-----------|---------|---------|
|            | pH   | EC    | TDS  | Arsenic | Aluminium | Cadmium | Calcium |
| DATE       |      | uS/cm | mg/L | mg/L    | mg/L      | mg/L    | mg/L    |
| 20/11/1995 | 3.47 | 1067  |      | 0.09    |           | 0.0025  | 42      |
| 1/03/1996  | 4.2  | 797   |      |         |           |         |         |
| 31/05/1996 | 3.3  | 1082  |      |         |           |         |         |
| 23/09/1996 | 3.1  | 950   |      |         |           |         |         |
| 2/01/1997  | 3.3  | 900   |      |         |           |         |         |
| 31/03/1997 | 3.4  | 1300  |      |         |           |         |         |
| 24/06/1997 | 3.5  | 970   |      |         |           |         |         |
| 4/10/1997  | 3.4  | 1200  |      |         |           |         |         |
| 5/12/1997  | 3.4  | 1200  |      |         |           |         |         |
| 18/03/1998 | 3.3  | 1300  |      |         |           |         |         |
| 7/06/1998  | 3.3  | 1300  |      |         |           |         |         |
| 6/07/1998  |      |       |      |         |           |         |         |
| 21/09/1998 | 3.3  | 1100  |      |         |           |         |         |
| 5/12/1998  | 3.8  | 1100  |      |         |           |         |         |
| 4/01/1999  |      |       |      |         |           |         |         |
| 1/04/1999  | 3.5  | 1200  |      |         |           |         |         |
| 28/06/1999 | 3.5  | 1200  |      |         |           |         |         |
| 20/09/1999 | 3.7  | 1000  | 830  |         |           |         |         |
| 1/01/2000  | 3.8  | 920   | 730  |         |           |         |         |
| 1/03/2000  | 3.5  | 1100  | 890  |         |           |         |         |
| 28/06/2000 | 3.8  | 980   | 800  |         |           |         |         |
| 29/09/2000 | 3.6  | 1100  | 870  |         |           |         |         |
| 11/01/2001 | 3.5  | 1000  | 820  |         |           |         |         |
| 15/03/2001 | 3.7  | 1200  | 1000 |         |           |         |         |
| 11/06/2001 | 3.5  | 1200  | 930  |         |           |         |         |
| 24/09/2001 | 3.4  | 1200  |      |         |           |         |         |
| 13/12/2001 | 3.9  | 950   |      |         |           |         |         |
| 2/03/2002  | 3.6  | 1200  |      |         |           |         |         |
| 2/07/2002  | 3.4  | 1200  |      |         |           |         |         |
| 3/07/2004  | 3.6  | 890   |      | <0.005  | 1.4       | 0.0007  |         |
| 9/06/2005  | 3.6  | 830   |      | <0.005  | 2.1       | 0.0004  |         |
| 8/09/2005  | 3.5  | 740   |      | <0.005  | 1.6       | 0.0007  |         |
| 28/03/2006 | 3.7  | 820   |      | <0.005  | 2.3       | 0.0005  |         |
| 14/06/2006 | 3.6  | 750   |      | <0.005  | 1.6       | 0.0007  |         |
| 28/08/2006 | 3.7  | 830   |      | <0.005  | 2.6       | 0.0007  |         |
| 14/12/2006 | 3.6  | 820   |      | <0.005  | 1.7       | 0.0006  |         |
| 27/02/2007 | 3.6  | 820   |      | <0.005  | 1.8       | 0.0007  |         |
| 2/03/2007  | 3.7  | 860   |      | <0.005  | 1.9       | 0.0012  |         |
| 1/10/2007  | 3.7  | 840   |      | <0.005  | 2.7       | <0.0005 |         |
| 12/03/2008 | 4.6  | 840   |      | <0.005  | 0.42      | 0.0002  |         |
| 3/07/2008  | 4.8  | 960   |      | <0.003  | 0.32      | 0.0006  |         |
| 2/04/2009  | 6.5  | 980   |      | 0.003   | 0.16      | <0.0001 |         |
| 10/08/2009 | 4.7  | 971   |      | <0.001  | 1         | 0.0011  |         |
| 19/02/2010 | 3.6  | 1100  |      | 0.002   | 0.75      | 0.00659 | 20      |
| 28/03/2010 | 3.7  | 961   |      | 0.001   | 0.65      | 0.0001  |         |
| 11/07/2010 | 3.6  | 1060  |      | <0.001  | 0.9       | 0.0001  | 18      |
| 20/11/2010 | 3.69 | 940   |      | 0.001   | 0.99      | 0.0001  | 18      |
| 22/08/2011 | 3.7  | 934   |      | <0.001  | 0.96      | 0.0001  | 17      |
| 20/09/2011 | 3.69 | 989   |      | 0.001   | 1.05      | 0.0004  | 18      |
| 08/07/2012 | 3.67 | 982   |      | 0.001   | 1.06      | 0.0002  | 18      |
| 24/06/2013 | 3.73 | 995   |      | <0.001  | 1.46      | 0.0002  | 16      |

|            |      |     |       |      |         |    |
|------------|------|-----|-------|------|---------|----|
| 31/7/2014  | 4.04 | 931 | 0.004 | 1.45 | 0.0001  | 18 |
| 20/08/2015 | 4.44 | 958 | 0.003 | 1.47 | <0.0001 | 14 |

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| <0.001 | <0.05 | <0.001 |           |           |            | <0.001 |        |          |
|--------|-------|--------|-----------|-----------|------------|--------|--------|----------|
| Copper | Iron  | Lead   | Magnesium | Manganese | Molybdenum | Nickel | Sodium | Sulphate |
| mg/L   | mg/L  | mg/L   | mg/L      | mg/L      | mg/L       | mg/L   | mg/L   | mg/L     |
| 0.01   | 5.4   | 0.12   | 19        | 1.97      | 0.005      | 0.05   |        | 536      |
|        | 12    |        |           |           |            |        |        | 520      |
|        | 0.95  |        |           |           |            |        |        | 460      |
|        | 17    |        |           |           |            |        |        | 370      |
|        | 27    |        |           |           |            |        |        | 420      |
|        | 2.8   |        |           |           |            |        |        | 850      |
|        | 1     |        |           |           |            |        |        | 370      |
|        | 11    |        |           |           |            |        |        | 480      |
|        | 0.54  |        |           |           |            |        |        | 480      |
|        | 1.3   |        |           |           |            |        |        | 570      |
|        | 1.3   |        |           |           |            |        |        | 550      |
|        |       |        |           |           |            |        |        |          |
|        | 0.5   |        |           |           |            |        |        | 430      |
|        | 6.9   |        |           |           |            |        |        | 500      |
|        |       |        |           |           |            |        |        | 620      |
|        |       |        |           |           |            |        |        |          |
|        | 6.5   |        |           |           |            |        |        |          |
|        | 0.19  |        |           |           |            |        |        | 540      |
|        | 12    |        |           |           |            |        |        | 440      |
|        | 11    |        |           |           |            |        |        | 380      |
|        | 0.73  |        |           |           |            |        |        | 480      |
|        | 8.9   |        |           |           |            |        |        | 440      |
|        | 3.3   |        |           |           |            |        |        | 490      |
|        | 6.9   |        |           |           |            |        |        | 400      |
|        | 0.47  |        |           |           |            |        |        | 540      |
|        | 0.3   |        |           |           |            |        |        |          |
|        | 4.1   |        |           |           |            |        |        | 520      |
|        | 1.5   |        |           |           |            |        |        | 470      |
|        | 0.11  |        |           |           |            |        |        | 600      |
|        | 0.92  |        |           |           |            |        |        | 530      |
| <0.01  |       | 0.007  |           | 1.2       | <0.05      | 0.09   |        | 360      |
| 0.02   |       | 0.15   |           | 1.1       | <0.05      | 0.05   |        | 270      |
| 0.05   | 0.21  | 0.1    |           | 1         | <0.05      | 0.05   |        | 310      |
| <0.01  | 0.07  | 0.053  |           | 1         | <0.05      | 0.05   |        | 260      |
| 0.01   | 0.025 | 0.057  |           | 0.95      | <0.05      | 0.05   |        | 320      |
| 0.02   | 0.11  | 0.011  |           | 1.1       | <0.05      | 0.05   |        | 350      |
| <0.01  |       | 0.016  |           |           | <0.05      | 0.025  |        | 350      |
| <0.01  |       | 0.065  |           |           | <0.05      | 0.06   |        | 320      |
| <0.01  |       | 0.046  |           |           | <0.05      | 0.06   |        | 310      |
| 0.017  | 0.18  | 0.038  |           | 1.5       | <0.05      | 0.078  |        | 360      |
| 0.003  |       | <0.001 |           |           | <0.005     | 0.052  |        | 350      |
| 0.004  |       | 0.001  |           |           | <0.005     | 0.045  |        | 360      |
| 0.005  |       |        |           |           |            | 0.04   |        | 370      |
| 0.005  |       |        |           |           |            | 0.084  |        | 398      |
| 0.002  | 0.3   |        | 10        |           |            | 0.146  | 134    | 388      |
| 0.008  |       |        |           |           |            | 0.029  |        | 351      |
| 0.002  | 0.33  |        | 9         |           |            | 0.032  | 130    | 346      |
| 0.003  | 0.17  |        | 10        |           |            | 0.027  | 136    | 374      |
| 0.01   | 0.15  |        | 9         |           |            | 0.026  | 146    | 383      |
| 0.015  | 0.19  |        | 10        |           |            | 0.034  | 137    | 380      |
| 0.014  | 0.19  |        | 10        |           |            | 0.027  | 131    | 362      |
| 0.021  | 0.06  |        | 10        |           |            | 0.029  | 129    | 353      |

0.026  
0.099

0.1  
0.07

10  
8

0.028  
0.027

153  
122

415  
367

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|        |        |          |           |       |          |         |          |           |  |
|--------|--------|----------|-----------|-------|----------|---------|----------|-----------|--|
| <0.001 |        |          |           |       | <0.05    | <0.001  | <0.0001  | <0.01     |  |
| Zinc   | Cobalt | Fluoride | Turbidity | Boron | Chromium | Mercury | Selenium | Potassium |  |
| mg/L   | mg/L   | mg/L     | NTU       | mg/L  | mg/L     | mg/L    | mg/L     | mg/L      |  |
| 0.36   |        |          |           |       |          |         |          |           |  |

|       |       |     |      |       |        |         |        |    |  |
|-------|-------|-----|------|-------|--------|---------|--------|----|--|
| 0.36  |       |     |      |       |        |         |        |    |  |
| 0.34  |       |     |      |       |        |         |        |    |  |
| 0.51  | <0.05 |     |      |       |        |         |        |    |  |
| 0.28  | <0.05 |     |      |       |        |         |        |    |  |
| 0.37  | <0.05 |     |      |       |        |         |        |    |  |
| 0.37  |       |     |      |       |        |         |        |    |  |
| 0.34  | <0.05 |     |      |       |        |         |        |    |  |
| 0.36  | <0.05 |     |      |       |        |         |        |    |  |
| 0.39  | <0.05 |     |      |       |        |         |        |    |  |
| 0.46  | <0.05 | 1.1 |      |       |        |         |        |    |  |
| 0.31  | 0.034 |     |      |       |        |         |        |    |  |
| 0.43  | 0.032 |     |      |       |        |         |        |    |  |
| 0.043 | 0.019 | 1.1 | 13   | 0.018 | <0.001 | <0.0002 | <0.003 |    |  |
| 1.06  | 0.045 | 0.9 | <0.1 | <0.05 | <0.010 | <0.0001 | <0.01  |    |  |
| 0.654 | 0.089 | 1.4 | 40   | <0.05 | <0.010 | <0.0001 | <0.01  | 23 |  |
| 0.173 | 0.018 | 1.4 | 55   | <0.05 | <0.01  | <0.0001 | <0.01  |    |  |
| 0.193 | 0.02  | 1.4 | 0.2  | <0.05 | <0.010 | <0.0001 | <0.01  | 23 |  |
| 0.204 | 0.017 | 0.8 | 1.3  | <0.05 | <0.010 | <0.0001 | <0.01  | 21 |  |
| 0.171 | 0.016 | 1.4 | 9.6  | <0.05 | <0.001 | <0.0001 | <0.01  | 19 |  |
| 0.183 | 0.019 | 1.2 | 11   | <0.05 | <0.001 | <0.0001 | <0.01  | 25 |  |
| 0.153 | 0.016 | 1.3 | 0.7  | <0.05 | 0.002  | <0.0001 | <0.01  | 23 |  |
| 0.236 | 0.017 | 1.2 | 1.9  | <0.05 | <0.001 | <0.0001 | <0.01  | 22 |  |

|       |       |     |           |        |         |       |    |
|-------|-------|-----|-----------|--------|---------|-------|----|
| 0.198 | 0.016 | 1.5 | 25 <0.05  | <0.001 | <0.0001 | <0.01 | 28 |
| 0.222 | 0.015 | 1.3 | 2.6 <0.05 | <0.001 | <0.0001 | <0.01 | 21 |

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| Chloride | Alkalinity | Alkalinity | Alkalinity | Alkalinity as | Iron - Total |
|----------|------------|------------|------------|---------------|--------------|
| mg/L     | mg/L       | mg/L       | mg/L       | mg/L          | mg/L         |

|    |    |    |    |    |      |
|----|----|----|----|----|------|
| 16 | <1 | <1 | <1 | <1 |      |
| 18 | <1 | <1 | <1 | <1 |      |
| 18 | <1 | <1 | <1 | <1 | 0.64 |
| 17 | <1 | <1 | <1 | <1 |      |
| 16 | <1 | <1 | <1 | <1 |      |
| 15 | <1 | <1 | <1 | <1 |      |
| 26 | <1 | <1 | <1 | <1 |      |

|    |    |    |    |    |
|----|----|----|----|----|
| 22 | <1 | <1 | <1 | <1 |
| 21 | <1 | <1 | <1 | <1 |

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|            |      |       |      | <0.001<br><0.001 | <0.01<br><0.01 | <0.0001<br><0.0001 |         |
|------------|------|-------|------|------------------|----------------|--------------------|---------|
|            | pH   | EC    | TDS  | Arsenic          | Aluminium      | Cadmium            | Calcium |
| DATE       |      | uS/cm | mg/L | mg/L             | mg/L           | mg/L               | mg/L    |
| 31/05/1996 | 7.2  | 928   |      | 0.03             |                | 0.0009             |         |
| 23/09/1996 | 6.8  | 3000  |      | 0.03             |                | <0.0005            |         |
| 2/01/1997  | 5.6  | 170   |      | 0.01             |                | <0.0005            |         |
| 31/03/1997 | 6.1  | 210   |      |                  |                |                    |         |
| 24/06/1997 | 6.4  | 300   |      |                  |                |                    |         |
| 4/10/1997  | 6.6  | 730   |      |                  |                |                    |         |
| 5/12/1997  | 7.1  | 820   |      |                  |                |                    |         |
| 18/03/1998 | 5.9  | 1100  |      |                  |                |                    |         |
| 7/06/1998  | 6    | 960   |      |                  |                |                    |         |
| 21/09/1998 | 6.6  | 1200  |      |                  |                |                    |         |
| 6/12/1998  | 6.9  | 1400  |      |                  |                |                    |         |
| 1/04/1999  | 5.8  | 270   |      |                  |                |                    |         |
| 28/06/1999 | 6.4  | 310   |      |                  |                |                    |         |
| 20/09/1999 | 6.9  | 800   | 500  |                  |                |                    |         |
| 1/01/2000  | 5.5  | 180   | 150  |                  |                |                    |         |
| 1/03/2000  | 5.8  | 130   | 130  |                  |                |                    |         |
| 28/06/2000 | 6.2  | 230   | 250  |                  |                |                    |         |
| 29/09/2000 | 6.9  | 360   | 270  |                  |                |                    |         |
| 7/01/2001  | 5.9  | 110   | 160  |                  |                |                    |         |
| 15/03/2001 | 6.3  | 120   | 160  |                  |                |                    |         |
| 11/06/2001 | 6.7  | 270   | 320  |                  |                |                    |         |
| 24/09/2001 | 6.8  | 370   | 290  |                  |                |                    |         |
| 13/12/2001 | 7.1  | 730   | 490  |                  |                |                    |         |
| 2/03/2002  | 5.8  | 110   | 96   |                  |                |                    |         |
| 2/07/2002  | 6.6  | 370   | 250  |                  |                |                    |         |
| 28/03/2006 | 5.8  | 340   |      | <0.005           | 0.07           | 0.0001             |         |
| 14/06/2006 | 6.4  | 230   |      | <0.005           | 0.81           | 0.0001             |         |
| 28/08/2006 | 6.7  | 800   |      | 0.009            | 2.1            | 0.0001             |         |
| 14/12/2006 | 6    | 250   |      | <0.005           | 0.46           | 0.0001             |         |
| 2/03/2007  | 6.1  | 290   |      | <0.005           | 0.35           | 0.0001             |         |
| 1/10/2007  | 6.8  | 1100  |      | 0.012            | 0.13           | 0.0001             |         |
| 12/03/2008 | 5.8  | 240   |      | <0.005           | 0.13           | 0.0001             |         |
| 3/07/2008  | 7    | 1300  |      | 0.013            | 0.31           | <0.0001            |         |
| 2/04/2009  | 6.1  | 330   |      | <0.003           | 0.11           | <0.0001            |         |
| 10/08/2009 | 7.69 | 1080  |      | 0.01             | 0.4            | <0.0001            |         |
| 19/02/2010 | 6.02 | 326   |      | <0.001           | 0.07           | 0.0018             | 2       |
| 29/03/2010 | 7.38 | 267   |      | 0.002            | 0.38           | <0.0001            |         |
| 11/07/2010 | 7.04 | 559   |      | 0.005            | 0.11           | <0.0001            | 4       |
| 20/11/2010 | 8    | 746   |      | 0.01             | 0.43           | <0.0001            | 6       |
| 23/08/2011 | 7.08 | 454   |      | 0.008            | 0.17           | <0.0001            | 4       |
| 20/09/2011 | 7.09 | 499   |      | 0.031            | 0.23           | <0.0001            | 5       |
| 08/07/2012 | 7.12 | 474   |      | 0.008            | 0.03           | <0.0001            | 4       |
| 24/06/2013 | 6.97 | 317   |      | 0.009            | 3.04           | <0.0001            | <1      |
| 31/7/2014  | 6.83 | 800   |      | 0.086            | 0.36           | <0.0001            | 11      |
| 20/08/2015 | 7.49 | 1200  |      | 0.332            | 0.4            | <0.0001            | 13      |

| <0.001 | <0.05 | <0.001 |           |           |            | <0.001 |        |          |
|--------|-------|--------|-----------|-----------|------------|--------|--------|----------|
| <0.001 | <0.05 | <0.001 |           |           |            | <0.001 |        |          |
| Copper | Iron  | Lead   | Magnesium | Manganese | Molybdenum | Nickel | Sodium | Sulphate |
| mg/L   | mg/L  | mg/L   | mg/L      | mg/L      | mg/L       | mg/L   | mg/L   | mg/L     |
| 0.025  | 1.75  | 0.025  |           |           |            |        |        | 260      |
| 0.025  | 0.3   | 0.025  |           |           |            |        |        | 990      |
| 0.025  | 0.82  | 0.072  |           |           |            |        |        | 54       |
|        | 0.36  |        |           |           |            |        |        | 66       |
|        | 0.38  |        |           |           |            |        |        | 79       |
|        | 0.54  |        |           |           |            |        |        | 180      |
|        | 0.5   |        |           |           |            |        |        | 210      |
|        | 0.025 |        |           |           |            |        |        | 310      |
|        | 0.025 |        |           |           |            |        |        | 260      |
|        | 0.025 |        |           |           |            |        |        | 330      |
|        | 0.025 |        |           |           |            |        |        | 420      |
|        | 0.16  |        |           |           |            |        |        | 84       |
|        | 0.44  |        |           |           |            |        |        | 95       |
|        | 0.13  |        |           |           |            |        |        | 210      |
|        | 0.16  |        |           |           |            |        |        | 47       |
|        | 0.025 |        |           |           |            |        |        | 47       |
|        | 0.47  |        |           |           |            |        |        | 76       |
|        | 0.18  |        |           |           |            |        |        | 100      |
|        | 0.54  |        |           |           |            |        |        | 220      |
|        | 0.22  |        |           |           |            |        |        | 63       |
|        | 0.86  |        |           |           |            |        |        | 73       |
|        | 0.58  |        |           |           |            |        |        | 100      |
|        | 0.25  |        |           |           |            |        |        | 200      |
|        | 0.15  |        |           |           |            |        |        | 20       |
|        | 0.025 |        |           |           |            |        |        | 74       |
| 0.01   | 0.025 | 0.001  |           | 0.025     | <0.05      | <0.05  |        | 130      |
| <0.01  | 0.26  | 0.003  |           | 0.025     | <0.05      | <0.05  |        | 64       |
| 0.01   | 0.28  | 0.001  |           | 0.0025    | <0.05      | <0.05  |        | 210      |
| <0.01  |       | 0.007  |           |           | <0.05      | <0.05  |        | 49       |
| <0.01  |       | 0.001  |           |           | <0.05      | <0.05  |        | 81       |
| 0.003  | 0.1   | <0.001 |           | 0.025     | <0.05      | 0.001  |        | 250      |
| 0.001  |       | <0.001 |           |           | <0.05      | 0.004  |        | 64       |
| 0.003  |       | 0.001  |           |           |            | 0.002  |        | 260      |
| 0.001  |       |        |           |           |            | <0.002 |        | 100      |
| 0.003  |       |        |           |           |            | <0.001 |        | 228      |
| 0.008  | <0.05 |        | 2         |           |            | 0.002  | 56     | 102      |
| 0.004  |       |        |           |           |            | <0.001 |        | 79       |
| 0.002  | 0.13  |        | 2         |           |            | <0.001 | 94     | 97       |
| 0.003  | 0.21  |        | 2         |           |            | <0.001 | 141    | 148      |
| 0.003  | 0.23  |        | 2         |           |            | 0.002  | 91     | 92       |
| 0.002  | 0.43  |        | 2         |           |            | 0.002  | 98     | 95       |
| 0.003  | <0.05 |        | 2         |           |            | 0.002  | 91     | 100      |
| 0.004  | 1.57  |        | <1        |           |            | 0.001  | 53     | 70       |
| 0.002  | 0.63  |        | 3         |           |            | <0.001 | 162    | 188      |
| 0.003  | 0.37  |        | 4         |           |            | <0.001 | 154    | 98       |

|       | <0.001 |          |           | <0.05 | <0.001   | <0.0001 | <0.01    |           |
|-------|--------|----------|-----------|-------|----------|---------|----------|-----------|
|       | <0.001 |          |           | <0.05 | <0.001   | <0.0001 | <0.01    |           |
| Zinc  | Cobalt | Fluoride | Turbidity | Boron | Chromium | Mercury | Selenium | Potassium |
| mg/L  | mg/L   | mg/L     | NTU       | mg/L  | mg/L     | mg/L    | mg/L     | mg/L      |
| <0.05 |        |          |           |       |          |         |          |           |
| <0.05 |        |          |           |       |          |         |          |           |
| 0.09  |        |          |           |       |          |         |          |           |

|        |        |      |      |       |        |         |        |    |
|--------|--------|------|------|-------|--------|---------|--------|----|
| 0.015  | <0.05  |      |      |       |        |         |        |    |
| <0.005 | <0.05  |      |      |       |        |         |        |    |
| 0.006  |        |      |      |       |        |         |        |    |
| 0.019  | <0.05  |      |      |       |        |         |        |    |
| <0.005 | <0.05  |      |      |       |        |         |        |    |
| 0.012  | <0.05  | 4.5  |      |       |        |         |        |    |
| 0.032  | <0.005 |      |      |       |        |         |        |    |
| 0.013  | <0.005 |      |      |       |        |         |        |    |
| <0.005 | <0.005 | 0.44 | 56   | 0.015 | <0.001 | <0.0002 | <0.003 |    |
| 2.9    | <0.001 | 4.3  | 15   | <0.05 | <0.010 | <0.0001 | <0.01  |    |
| 0.012  | <0.001 | 0.3  | 3.5  | <0.05 | <0.010 | <0.0001 | <0.01  | 4  |
| <0.005 | <0.001 | 0.5  | 85   | <0.05 | <0.01  | <0.0001 | <0.01  |    |
| <0.005 | <0.001 | 2.5  | 85   | <0.05 | <0.010 | <0.0001 | <0.01  | 4  |
| 0.031  | <0.001 | 3.6  | 45   | <0.05 | <0.010 | <0.0001 | <0.01  | 5  |
| 0.007  | 0.003  | 2.9  | 85   | <0.05 | <0.001 | <0.0001 | <0.01  | 3  |
| 0.007  | 0.006  | 3    | 45   | <0.05 | <0.001 | <0.0001 | <0.01  | 5  |
| <0.005 | <0.001 | 2.6  | 78   | <0.05 | 0.002  | <0.0001 | <0.01  | 4  |
| 0.005  | <0.001 | 2    | 95   | <0.05 | <0.001 | <0.0001 | <0.01  | 3  |
| 0.006  | 0.006  | 5.3  | 20   | <0.05 | <0.001 | <0.0001 | <0.01  | 9  |
| 0.006  | <0.001 | 5    | 78.3 | <0.05 | <0.001 | <0.0001 | <0.01  | 12 |

| Chloride | Alkalinity | Alkalinity | Alkalinity | Alkalinity | Iron - Total |
|----------|------------|------------|------------|------------|--------------|
| mg/L     | mg/L       | mg/L       | mg/L       | mg/L       | mg/L         |

|    |    |    |     |     |      |
|----|----|----|-----|-----|------|
| 17 | <1 | <1 | 18  | 18  |      |
| 26 | <1 | <1 | 82  | 82  |      |
| 48 | <1 | <1 | 110 | 110 | 3.75 |
| 19 | <1 | <1 | 102 | 102 |      |
| 20 | <1 | <1 | 109 | 109 |      |
| 17 | <1 | <1 | 92  | 92  |      |
| 12 | <1 | <1 | 32  | 32  |      |
| 55 | <1 | <1 | 115 | 115 |      |
| 51 | <1 | <1 | 355 | 355 |      |

| DATE       |      |       |      |         |           |         |
|------------|------|-------|------|---------|-----------|---------|
|            | pH   | EC    | TDS  | Arsenic | Aluminium | Cadmium |
|            |      | uS/cm | mg/L | mg/L    | mg/L      | mg/L    |
| 28-Jun-00  | 7.4  | 4900  |      | 0.006   | <0.05     | 0.0002  |
| 03-Jul-04  | 7.3  | 4900  |      | <0.05   | <0.05     | 0.0004  |
| 09-Jun-05  | 7.7  | 5000  |      | <0.05   | 0.06      | 0.0001  |
| 08-Sep-05  | 7.5  | 5400  |      | <0.05   | <0.05     | 0.0001  |
| 28-Mar-06  | 7.8  | 5100  |      | 0.006   | 0.29      | 0.0001  |
| 14-Jun-06  | 7.6  | 5400  |      | 0.006   | 0.06      | 0.0001  |
| 28-Aug-06  | 7.5  | 5600  |      | <0.05   | <0.05     | 0.0001  |
| 14-Dec-06  |      |       |      |         |           |         |
| 02-Mar-07  | 7.4  | 5600  |      | 0.007   | <0.05     | 0.0001  |
| 01-Oct-07  | 7.3  | 6600  |      | 0.009   | <0.05     | 0.0001  |
| 12-Mar-08  | 7.4  | 6800  |      | 0.007   | <0.05     | 0.0001  |
| 03-Jul-08  | 7.5  | 5600  |      | 0.006   | <0.05     | 0.0002  |
| 02-Apr-09  | 7.5  | 5600  |      | 0.006   | <0.05     | <0.0005 |
| 10/08/2009 | 7.74 | 5650  |      | 0.006   | <0.01     | 0.0004  |
| 20/02/2010 | 7.2  | 5690  |      | 0.006   | <0.01     | 0.0009  |
| 29/03/2010 | 7.71 | 5540  |      | 0.005   | 0.02      | 0.0004  |
| 11/07/2010 | 7.37 | 5730  |      | 0.004   | <0.01     | 0.0004  |
| 20/11/2010 | 8.37 | 5500  |      | 0.005   | <0.01     | 0.0003  |
| 23/08/2011 | 7.59 | 5600  |      | 0.005   | 0.02      | 0.0005  |
| 20/09/2011 | 7.05 | 6490  |      | 0.006   | <0.01     | 0.0022  |
| 08/07/2012 | 7.42 | 5420  |      | 0.004   | <0.01     | 0.0005  |
| 24/06/2013 | 7.4  | 5140  |      | 0.004   | <0.01     | 0.0004  |
| 31/7/2014  | 7.43 | 5170  |      | 0.005   | <0.01     | 0.0003  |
| 20/08/2015 | 7.74 | 5420  |      | 0.006   | <0.01     | <0.0001 |

97

115

119

159

370

131

100

98

85

| <0.001 | <0.05 | <0.001 |           |           |            | <0.001 |        |          |
|--------|-------|--------|-----------|-----------|------------|--------|--------|----------|
| Copper | Iron  | Lead   | Magnesium | Manganese | Molybdenum | Nickel | Sodium | Sulphate |
| mg/L   | mg/L  | mg/L   | mg/L      | mg/L      | mg/L       | mg/L   | mg/L   | mg/L     |
| 0.005  |       | 0.001  |           | <0.05     | <0.05      | <0.05  |        | 1700     |
| 0.03   |       | 0.24   |           |           | 0.06       | <0.05  |        | 1500     |
| 0.01   | <0.05 | 0.001  |           | <0.05     | <0.05      | <0.05  |        | 1600     |
| 0.01   | <0.05 | 0.001  |           |           | 0.05       | <0.05  |        | 1400     |
| 0.005  | <0.05 | 0.001  |           | <0.05     | <0.05      | <0.05  |        | 1800     |
| 0.005  | <0.05 | 0.001  |           | <0.05     | <0.05      | <0.05  |        | 2000     |
| 0.005  |       | 0.01   |           |           | <0.05      | <0.05  |        | 1800     |
| 0.01   |       | 0.001  |           |           | <0.05      | <0.05  |        | 1800     |
| 0.004  | <0.05 | <0.001 |           | <0.05     | <0.05      | 0.001  |        | 1800     |
| 0.002  |       | <0.001 |           |           |            | 0.026  | 0.002  | 1800     |
| 0.0005 |       | <0.001 |           |           |            | 0.027  | 0.001  | 1700     |
| <0.005 |       |        |           |           |            | <0.005 |        | 1700     |
| 0.002  |       |        |           |           |            | 0.001  |        | 1940     |
| 0.002  | <0.05 |        | 39        |           |            | <0.001 | 1120   | 1850     |
| 0.004  |       |        |           |           |            | <0.001 |        | 1900     |
| <0.001 | 0.09  |        | 49        |           |            | <0.001 | 1120   | 1920     |
| 0.004  | <0.05 |        | 47        |           |            | <0.001 | 1240   | 1930     |
| <0.001 | <0.05 |        | 59        |           |            | <0.001 | 1110   | 2000     |
| 0.001  | <0.05 |        | 125       |           |            | 0.005  | 1040   | 2050     |
| <0.001 | <0.05 |        | 53        |           |            | <0.001 | 1170   | 1980     |
| 0.001  | <0.05 |        | 41        |           |            | <0.001 | 1080   | 1780     |
| 0.002  | <0.05 |        | 40        |           |            | <0.001 | 1300   | 2080     |
| 0.01   | <0.05 |        | 33        |           |            | <0.001 | 1020   | 1780     |

| <0.001       |                |                  | Turbidity<br>NTU | <0.05<br>Boron<br>mg/L | <0.001<br>Chromium<br>mg/L | <0.0001<br>Mercury<br>mg/L | <0.01<br>Selenium<br>mg/L | Potassium<br>mg/L |
|--------------|----------------|------------------|------------------|------------------------|----------------------------|----------------------------|---------------------------|-------------------|
| Zinc<br>mg/L | Cobalt<br>mg/L | Fluoride<br>mg/L |                  |                        |                            |                            |                           |                   |
| 0.0025       |                |                  |                  |                        |                            |                            |                           |                   |
| 0.017        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.01         | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.01         | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.008        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.014        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.015        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.005        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.012        | 0.05           | 10               |                  |                        |                            |                            |                           |                   |
| 0.032        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.0025       | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.019        | <0.05          | 7.7              | 12               | 0.042                  | <0.005                     | <0.0002                    | <0.01                     |                   |
| 0.018        | <0.001         | 7.4              | 0.2              | <0.05                  | <0.010                     | <0.0001                    | <0.01                     |                   |
| 0.015        | <0.001         | 7.7              | 0.1              | <0.05                  | <0.010                     | <0.0001                    | <0.01                     | 23                |
| 0.012        | <0.001         | 7.5              | 0.5              | <0.05                  | <0.01                      | <0.0001                    | <0.01                     |                   |
| 0.01         | <0.001         | 6.4              | 0.3              | <0.05                  | <0.010                     | <0.0001                    | <0.01                     | 26                |
| 0.02         | <0.001         | 6.6              | <0.1             | <0.05                  | <0.010                     | <0.0001                    | <0.01                     | 23                |
| 0.01         | <0.001         | 7.7              | 23               | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 21                |
| 0.065        | <0.001         | 4.4              | 0.8              | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 30                |
| 0.011        | <0.001         | 6.7              | 4.8              | <0.05                  | 0.003                      | <0.0001                    | <0.01                     | 24                |
| 0.015        | <0.001         | 7                | 2                | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 19                |
| 0.008        | <0.001         | 10.9             | 0.7              | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 24                |
| 0.008        | <0.001         | 8.8              | 3.8              | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 17                |

| Chloride | Alkalinity | Alkalinity | Alkalinity | Alkalinity | Iron - Total |
|----------|------------|------------|------------|------------|--------------|
| mg/L     | mg/L       | mg/L       | mg/L       | mg/L       | mg/L         |

|     |    |   |     |     |      |
|-----|----|---|-----|-----|------|
| 603 | <1 |   | 221 | 221 |      |
| 668 | <1 |   | 226 | 226 |      |
| 633 | <1 | 8 | 191 | 199 | 0.27 |
| 621 | <1 |   | 232 | 232 |      |
| 994 | <1 |   | 240 | 240 |      |
| 578 | <1 |   | 214 | 214 |      |
| 592 | <1 |   | 212 | 212 |      |
| 613 | <1 |   | 200 | 200 |      |
| 634 | <1 |   | 207 | 207 |      |

| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | <0.001<br>Arsenic<br>mg/L | <0.01<br>Aluminium<br>mg/L | <0.0001<br>Cadmium<br>mg/L | Calcium<br>mg/L |
|------------|------|-------------|-------------|---------------------------|----------------------------|----------------------------|-----------------|
| 31-May-96  | 6.3  | 6530        |             |                           |                            | 0.0016                     |                 |
| 23-Sep-96  | 6.2  | 6000        |             |                           |                            | 0.0001                     |                 |
| 02-Jan-97  | 6    | 6100        |             |                           |                            | 0.0014                     |                 |
| 31-Mar-97  | 6.1  | 7400        |             |                           |                            |                            |                 |
| 24-Jun-97  | 6.3  | 6700        |             |                           |                            |                            |                 |
| 04-Oct-97  | 6.3  | 7100        |             |                           |                            |                            |                 |
| 05-Dec-97  | 6.6  | 7600        |             |                           |                            |                            |                 |
| 18-Mar-98  | 7.4  | 6600        |             |                           |                            |                            |                 |
| 07-Jun-98  | 6.9  | 7100        |             |                           |                            |                            |                 |
| 21-Sep-98  | 6.7  | 7500        |             |                           |                            |                            |                 |
| 06-Dec-98  | 6.5  | 7600        |             |                           |                            |                            |                 |
| 01-Apr-99  | 6.4  | 7500        |             |                           |                            |                            |                 |
| 28-Jun-99  | 6.6  | 7300        |             |                           |                            |                            |                 |
| 20-Sep-99  | 6.6  | 7500        | 5700        |                           |                            |                            |                 |
| 01-Jan-00  | 6.4  | 7500        | 5800        |                           |                            |                            |                 |
| 01-Mar-00  | 6.4  | 7800        | 6000        |                           |                            |                            |                 |
| 28-Jun-00  | 6.6  | 7600        | 6100        |                           |                            |                            |                 |
| 29-Sep-00  | 6.6  | 8000        | 6400        |                           |                            |                            |                 |
| 07-Jan-01  | 6.8  | 8000        | 6600        |                           |                            |                            |                 |
| 15-Mar-01  | 7    | 7900        | 6200        |                           |                            |                            |                 |
| 11-Jun-01  | 6.7  | 8300        | 6400        |                           |                            |                            |                 |
| 24-Sep-01  | 6.8  | 8000        | 6200        |                           |                            |                            |                 |
| 13-Dec-01  | 7.1  | 8100        | 6600        |                           |                            |                            |                 |
| 02-Mar-02  | 6.5  | 8700        | 6800        |                           |                            |                            |                 |
| 02-Jul-02  | 6.6  | 8100        | 6100        |                           |                            |                            |                 |
| 03-Jul-04  | 6.8  | 7400        |             | 0.005                     | 0.16                       | 0.0009                     |                 |
| 09-Jun-05  | 6.7  | 7400        |             | <0.005                    | 0.025                      | 0.0009                     |                 |
| 08-Sep-05  | 7.1  | 6600        |             | <0.005                    | 0.05                       | 0.0005                     |                 |
| 29-Mar-06  | 7    | 7000        |             | 0.025                     | 0.025                      | 0.0004                     |                 |
| 14-Jun-06  | 7    | 6400        |             | <0.005                    | 0.025                      | 0.0005                     |                 |
| 28-Aug-06  | 6.8  | 7000        |             | <0.005                    | 0.025                      | 0.0006                     |                 |
| 14-Dec-06  | 6.7  | 7100        |             | 0.025                     | 0.025                      | 0.001                      |                 |
| 02-Mar-07  | 6.6  | 6700        |             | 0.005                     | 0.025                      | 0.0006                     |                 |
| 01-Oct-07  | 6.5  | 7600        |             | 0.006                     | 0.025                      | 0.0019                     |                 |
| 12-Mar-08  | 6.4  | 7800        |             | 0.007                     | 0.05                       | 0.0002                     |                 |
| 03-Jul-08  | 6.6  | 6400        |             | 0.004                     | 0.025                      | 0.002                      |                 |
| 02-Apr-09  | 6.6  | 6000        |             | <0.005                    | <0.05                      | 0.0013                     |                 |
| 10/08/2009 | 7.2  | 5890        |             | 0.022                     | 0.02                       | <0.0001                    |                 |
| 21/02/2010 | 6.68 | 5860        |             | 0.008                     | 0.03                       | 0.0018                     | 260             |
| 29/03/2010 | 7.3  | 5470        |             | 0.01                      | 0.04                       | 0.0003                     |                 |
| 11/07/2010 | 7.3  | 5510        |             | 0.005                     | <0.01                      | 0.0005                     | 250             |
| 20/11/2010 | 8    | 5290        |             | 0.008                     | 0.02                       | 0.0032                     | 251             |
| 23/08/2011 | 7.12 | 5120        |             | 0.004                     | 0.03                       | 0.0002                     | 239             |
| 20/09/2011 | 6.81 | 5000        |             | 0.013                     | 0.02                       | 0.0002                     | 229             |
| 08/07/2012 | 6.9  | 5070        |             | 0.005                     | 0.02                       | 0.0005                     | 224             |
| 24/06/2013 | 7.44 | 5250        |             | 0.049                     | <0.01                      | <0.0001                    | 252             |
| 31/7/2014  | 7.25 | 5360        |             | 0.017                     | <0.01                      | <0.0001                    | 300             |
| 20/08/2015 | 7.42 | 5800        |             | 0.023                     | <0.01                      | <0.0001                    | 244             |

| <0.001         | <0.05        | <0.001       |                   |                   |                    | <0.001         |                |                  |
|----------------|--------------|--------------|-------------------|-------------------|--------------------|----------------|----------------|------------------|
| Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulphate<br>mg/L |
| 0.025          | 0.025        | 0.025        |                   |                   |                    |                |                | 2000             |
| 0.025          | 0.52         | 0.025        |                   |                   |                    |                |                | 350              |
| 0.025          | 0.82         | 0.056        |                   |                   |                    |                |                | 1900             |
|                | 0.025        |              |                   |                   |                    |                |                | 2300             |
|                | 0.025        |              |                   |                   |                    |                |                | 1600             |
|                | 0.24         |              |                   |                   |                    |                |                | 2000             |
|                | 0.07         |              |                   |                   |                    |                |                | 1900             |
|                | 0.025        |              |                   |                   |                    |                |                | 1700             |
|                | 0.025        |              |                   |                   |                    |                |                | 1900             |
|                | 0.025        |              |                   |                   |                    |                |                | 1900             |
|                | 0.025        |              |                   |                   |                    |                |                | 2300             |
|                | 0.025        |              |                   |                   |                    |                |                | 2000             |
|                | 0.025        |              |                   |                   |                    |                |                | 1900             |
|                | 0.14         |              |                   |                   |                    |                |                | 2000             |
|                | 0.025        |              |                   |                   |                    |                |                | 780              |
|                | 0.025        |              |                   |                   |                    |                |                | 2000             |
|                | 0.025        |              |                   |                   |                    |                |                | 2300             |
|                | 0.025        |              |                   |                   |                    |                |                | 2300             |
|                | 0.025        |              |                   |                   |                    |                |                | 2200             |
|                | 0.06         |              |                   |                   |                    |                |                | 2200             |
|                | 0.025        |              |                   |                   |                    |                |                | 2300             |
|                | 0.1          |              |                   |                   |                    |                |                | 2400             |
|                | 0.27         |              |                   |                   |                    |                |                | 2600             |
|                | 0.025        |              |                   |                   |                    |                |                | 2200             |
|                | 0.025        |              |                   |                   |                    |                |                | 1900             |
| 0.005          |              | 0.0025       |                   | 0.025             | 0.025              | <0.05          |                | 2100             |
| 0.03           |              | 0.35         |                   | 0.08              | 0.025              | <0.05          |                | 1700             |
| 0.005          | 0.025        | 0.001        |                   | 0.025             | 0.025              | <0.05          |                | 1600             |
| 0.01           | 0.025        | 0.001        |                   | 0.025             | 0.025              | <0.05          |                | 1400             |
| 0.005          | 0.025        | 0.001        |                   | 0.025             | 0.025              | <0.05          |                | 1800             |
| 0.01           | 0.09         | 0.001        |                   | 0.08              | 0.025              | <0.05          |                | 2100             |
| 0.005          |              | 0.01         |                   |                   | 0.025              | <0.05          |                | 1900             |
| 0.005          |              | 0.001        |                   |                   | 0.025              | <0.05          |                | 1800             |
| 0.013          | 0.025        | 0.009        |                   | 1.9               | 0.025              | 0.004          |                | 1600             |
| 0.003          | <0.001       |              |                   |                   | 0.014              | 0.032          |                | 1700             |
| 0.004          | <0.001       |              |                   |                   | 0.017              | 0.018          |                | 1600             |
| 0.006          |              |              |                   |                   |                    | 0.013          |                | 1600             |
| 0.002          |              |              |                   |                   |                    | 0.02           |                | 1640             |
| 0.008          | <0.05        |              | 105               |                   |                    | 0.017          | 924            | 1580             |
| 0.01           |              |              |                   |                   |                    | 0.019          |                | 1590             |
| 0.004          | 0.2          |              | 98                |                   |                    | 0.004          | 872            | 1560             |
| 0.051          | <0.05        |              | 100               |                   |                    | 0.026          | 950            | 1540             |
| 0.001          | 0.1          |              | 94                |                   |                    | 0.012          | 858            | 1540             |
| 0.001          | 0.42         |              | 91                |                   |                    | 0.013          | 824            | 1470             |
| 0.004          | <0.05        |              | 92                |                   |                    | 0.015          | 777            | 1570             |
| <0.001         | 0.29         |              | 104               |                   |                    | 0.002          | 802            | 1440             |
| 0.002          | 0.14         |              | 125               |                   |                    | 0.002          | 1070           | 1740             |
| 0.004          | 0.28         |              | 102               |                   |                    | <0.001         | 814            | 981              |

|              |                |                  |                  |               |                  |                 |                  |                   |
|--------------|----------------|------------------|------------------|---------------|------------------|-----------------|------------------|-------------------|
|              | <0.001         |                  |                  | <0.05         | <0.001           | <0.0001         | <0.01            |                   |
| Zinc<br>mg/L | Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium<br>mg/L |
| 0.07         |                |                  |                  |               |                  |                 |                  |                   |
| 0.025        |                |                  |                  |               |                  |                 |                  |                   |
| 0.16         |                |                  |                  |               |                  |                 |                  |                   |

|       |        |      |      |       |        |         |       |    |
|-------|--------|------|------|-------|--------|---------|-------|----|
| 0.052 |        |      |      |       |        |         |       |    |
| 0.14  |        |      |      |       |        |         |       |    |
| 0.081 | <0.05  |      |      |       |        |         |       |    |
| 0.034 | <0.05  |      |      |       |        |         |       |    |
| 0.029 | <0.05  |      |      |       |        |         |       |    |
| 0.04  |        |      |      |       |        |         |       |    |
| 0.053 | <0.05  |      |      |       |        |         |       |    |
| 0.043 | <0.05  |      |      |       |        |         |       |    |
| 0.15  | 0.07   | 7.5  |      |       |        |         |       |    |
| 0.1   | 0.026  |      |      |       |        |         |       |    |
| 0.066 | <0.005 |      |      |       |        |         |       |    |
| 0.12  | <0.005 | 7.1  | 0.8  | 0.041 | <0.005 | <0.0002 | <0.01 |    |
| 0.061 | 0.036  | 6.2  | 5.6  | <0.05 | <0.010 | <0.0001 | <0.01 |    |
| 0.051 | 0.009  | 6.6  | 8    | <0.05 | <0.010 | <0.0001 | <0.01 | 22 |
| 0.035 | 0.01   | 6.3  | 1.2  | <0.05 | <0.01  | <0.0001 | <0.01 |    |
| 0.056 | <0.001 | 5.9  | 5.6  | <0.05 | <0.010 | <0.0001 | <0.01 | 22 |
| 0.241 | 0.005  | 6.3  | <0.1 | <0.05 | <0.010 | <0.0001 | <0.01 | 20 |
| 0.031 | 0.013  | 7.4  | 5    | <0.05 | <0.001 | <0.0001 | <0.01 | 17 |
| 0.052 | 0.014  | 6.9  | 6.4  | <0.05 | <0.001 | <0.0001 | <0.01 | 21 |
| 0.038 | 0.015  | 7    | 2.6  | <0.05 | 0.002  | <0.0001 | <0.01 | 20 |
| 0.01  | 0.004  | 10   | 21   | <0.05 | <0.001 | <0.0001 | <0.01 | 22 |
| 0.024 | 0.003  | 12.8 | 3.2  | <0.05 | <0.001 | <0.0001 | <0.01 | 35 |
| 0.018 | <0.001 | 11   | 2.5  | <0.05 | <0.001 | <0.0001 | <0.01 | 24 |

| Chloride | Alkalinity | Alkalinity | Alkalinity | Alkalinity | Iron - Total |
|----------|------------|------------|------------|------------|--------------|
| mg/L     | mg/L       | mg/L       | mg/L       | mg/L       | mg/L         |

|     |    |    |     |     |      |
|-----|----|----|-----|-----|------|
| 950 | <1 | <1 | 102 | 102 |      |
| 970 | <1 | <1 | 104 | 104 |      |
| 893 | <1 | <1 | 85  | 85  | 0.23 |
| 797 | <1 | <1 | 125 | 125 |      |
| 789 | <1 | <1 | 109 | 109 |      |
| 771 | <1 | <1 | 95  | 95  |      |
| 817 | <1 | <1 | 317 | 317 |      |
| 934 | <1 | <1 | 275 | 275 |      |
| 976 | <1 | <1 | 382 | 382 |      |

| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Aluminium<br>mg/L | Cadmium<br>mg/L | Calcium<br>mg/L |
|------------|------|-------------|-------------|-----------------|-------------------|-----------------|-----------------|
| 2/04/2009  | 6    | 110         |             | 0.017           | 0.092             | <0.0001         |                 |
| 10/08/2009 | 6.51 | 127         |             | 0.022           | 0.08              | <0.0001         |                 |
| 22/02/2010 | 6.58 | 155         |             | 0.008           | 0.03              | 0.0016          | 2               |
| 29/03/2010 | 7.19 | 147         |             | 0.01            | 0.04              | <0.0001         |                 |
| 10/07/2010 | 6.51 | 124         |             | 0.003           | 0.03              | <0.0001         | <1              |
| 20/11/2010 | 7.5  | 118         |             | 0.018           | 0.04              | <0.0001         | <1              |
| 22/08/2011 | 5.31 | 110         |             | 0.003           | 0.02              | <0.0001         | 1               |
| 20/09/2011 | 5.39 | 118         |             | 0.002           | 0.02              | <0.0001         | 1               |
| 08/07/2012 | 6.06 | 123         |             | 0.006           | 0.03              | 0.0001          | 3               |
| 24/06/2013 | 6.14 | 154         |             | 0.013           | 0.04              | 0.0001          | 2               |
| 31/7/2014  | 6.56 | 210         |             | 0.022           | <0.01             | <0.0001         | 3               |
| 20/08/2015 | 6.54 | 226         |             | 0.021           | 0.03              | <0.0001         | 3               |

| <0.001         | <0.05        | <0.001       |                   |                   |                    | <0.001         |                |                  |              |
|----------------|--------------|--------------|-------------------|-------------------|--------------------|----------------|----------------|------------------|--------------|
| Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulphate<br>mg/L | Zinc<br>mg/L |
| <0.001         |              |              |                   |                   |                    | <0.002         |                | 16               | 0.028        |
| 0.001          |              |              |                   |                   |                    | 0.002          |                | 11               | 0.042        |
| 0.01           | <0.05        |              | <1                |                   |                    | 0.004          | 23             | 10               | 0.04         |
| 0.01           |              |              |                   |                   |                    | 0.003          |                | 10               | 0.014        |
| 0.002          | <0.05        |              | <1                |                   |                    | 0.001          | 22             | 8                | 0.068        |
| <0.001         | <0.05        |              | <1                |                   |                    | 0.001          | 20             | 13               | 0.056        |
| 0.005          | <0.05        |              | <1                |                   |                    | 0.002          | 16             | 12               | 0.045        |
| 0.002          | <0.05        |              | <1                |                   |                    | 0.002          | 18             | 12               | 0.02         |
| 0.005          | <0.05        |              | <1                |                   |                    | 0.003          | 18             | 15               | 0.029        |
| 0.002          | <0.05        |              | <1                |                   |                    | 0.004          | 23             | 24               | 0.04         |
| 0.004          | <0.05        |              |                   | 1                 |                    | 0.005          | 37             | 35               | 0.04         |
| 0.006          | <0.05        |              |                   | 1                 |                    | 0.004          | 34             | 41               | 0.039        |

| Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium Chloride<br>mg/L | Hydroxide<br>mg/L |
|----------------|------------------|------------------|---------------|------------------|-----------------|------------------|----------------------------|-------------------|
| <0.001         |                  |                  | <0.05         | <0.001           | <0.0001         | <0.01            |                            |                   |
| <0.005         | 0.42             | 7                | 0.014         | <0.001           | <0.0002         | <0.003           |                            |                   |
| <0.001         | 0.5              | 3.3              | <0.05         | <0.010           | <0.0001         | <0.01            |                            |                   |
| 0.001          | 0.7              | 0.5              | <0.05         | <0.010           | <0.0001         | <0.01            | 4                          | 11 <1             |
| 0.001          | 0.7              | 0.6              | <0.05         | <0.01            | <0.0001         | <0.01            |                            |                   |
| <0.001         | 0.6              | 0.2              | <0.05         | <0.010           | <0.0001         | <0.01            | 3                          | 12 <1             |
| <0.001         | 0.5              | <0.1             | <0.05         | <0.010           | <0.0001         | <0.01            | 3                          | 13 <1             |
| 0.001          | <0.1             | 1                | <0.05         | <0.001           | <0.0001         | <0.01            | 2                          | 13 <1             |
| 0.002          | 0.1              | 0.6              | <0.05         | <0.001           | <0.0001         | <0.01            | 2                          | 13 <1             |
| 0.002          | 0.2              | 1.3              | <0.05         | 0.002            | <0.0001         | <0.01            | 3                          | 12 <1             |
| <0.001         | 0.8              | 1.3              | <0.05         | <0.001           | <0.0001         | <0.01            | 3                          | 12 <1             |
| <0.001         | 1.4              | 0.9              | <0.05         | <0.001           | <0.0001         | <0.01            | 7                          | 15 <1             |
| <0.001         | 1.1              | 1.1              | <0.05         | <0.001           | <0.0001         | <0.01            | 6                          | 21 <1             |

| Carbonate<br>mg/L | Bicarbonat<br>mg/L | Total Alkal<br>mg/L | Iron - Total<br>mg/L |
|-------------------|--------------------|---------------------|----------------------|
|-------------------|--------------------|---------------------|----------------------|

|    |    |    |       |
|----|----|----|-------|
| <1 | 36 | 36 |       |
| <1 | 20 | 20 |       |
| <1 | 15 | 15 | <0.05 |
| <1 | 20 | 20 |       |
| <1 | 14 | 14 |       |
| <1 | 12 | 12 |       |
| <1 | 25 | 25 |       |
| <1 | 35 | 35 |       |
| <1 | 35 | 35 |       |

| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Aluminium<br>mg/L | Cadmium<br>mg/L | Calcium<br>mg/L |
|------------|------|-------------|-------------|-----------------|-------------------|-----------------|-----------------|
| 2/04/2009  | 5    | 72          |             | <0.001          | <0.01             | <0.0001         |                 |
| 10/08/2009 | 5.82 | 102         |             | <0.003          | <0.05             | <0.0001         |                 |
| 23/02/2010 | 5.51 | 108         |             | <0.001          | 0.02              | <0.0001         |                 |
| 29/03/2010 | 5.41 | 98          |             | <0.001          | 0.04              | 0.0024          | <1              |
| 10/07/2010 | 5.35 | 94          |             | <0.001          | 0.07              | <0.0001         |                 |
| 20/11/2010 | 6.56 | 104         |             | <0.001          | 0.02              | <0.0001         | <1              |
| 22/08/2011 | 5.39 | 99          |             | <0.001          | 0.29              | <0.0001         | <1              |
| 20/09/2011 | 5.45 | 98          |             | <0.001          | 0.03              | <0.0001         | <1              |
| 08/07/2012 | 5.27 | 113         |             | <0.001          | 0.02              | <0.0001         | <1              |
| 24/06/2013 | 5.13 | 114         |             | <0.001          | 0.03              | <0.0001         | <1              |
| 31/7/2014  | 5.64 | 107         |             | <0.001          | 0.04              | <0.0001         | <1              |
| 20/08/2015 | 5.7  | 106         |             | 0.002           | <0.01             | <0.0001         | <1              |
|            |      |             |             | 0.002           | 0.03              | <0.0001         | <1              |

| <0.001         | <0.05        | <0.001       |                   |                   |                    | <0.001         |                |                  |              |
|----------------|--------------|--------------|-------------------|-------------------|--------------------|----------------|----------------|------------------|--------------|
| Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulphate<br>mg/L | Zinc<br>mg/L |
| <0.001         |              |              |                   |                   |                    | <0.002         |                | <2               | 0.009        |
| <0.001         |              |              |                   |                   |                    | <0.001         |                | 2                | 0.031        |
| 0.012          | <0.05        |              | <1                |                   |                    | <0.001         | 18             | <1               | 0.042        |
| 0.004          |              |              |                   |                   |                    | <0.001         |                | <1               | 0.042        |
| 0.001          | <0.05        |              | <1                |                   |                    | <0.001         | 18             | <1               | 0.027        |
| <0.001         | <0.05        |              | <1                |                   |                    | <0.001         | 18             | <1               | 0.027        |
| 0.002          | <0.05        |              | <1                |                   |                    | <0.001         | 16             | 1                | 0.013        |
| <0.001         | <0.05        |              | <1                |                   |                    | <0.001         | 17             | 1                | <0.005       |
| 0.003          | <0.05        |              | <1                |                   |                    | <0.001         | 21             | 1                | 0.008        |
| 0.003          | <0.05        |              | <1                |                   |                    | <0.001         | 20             | 2                | 0.016        |
| 0.008          | <0.05        |              | <1                |                   |                    | <0.001         | 21             | 2                | 0.017        |
| 0.027          | <0.05        |              | <1                |                   |                    | <0.001         | 18             | 1                | 0.035        |

| <0.001 | Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium Chloride<br>mg/L | Hydroxide<br>mg/L |
|--------|----------------|------------------|------------------|---------------|------------------|-----------------|------------------|----------------------------|-------------------|
| <0.005 |                | 0.06             | 0.7              | 0.01          | <0.001           | <0.0002         | <0.003           |                            |                   |
| <0.001 | <0.1           |                  | 0.2              | <0.05         | <0.010           | <0.0001         | <0.01            |                            |                   |
| <0.001 | <0.1           |                  | 0.2              | <0.05         | <0.010           | <0.0001         | <0.01            | <1                         | 23 <1             |
| <0.001 |                | 0.1              | 3900             | <0.05         | <0.01            | <0.0001         | <0.01            |                            |                   |
| <0.001 | <0.1           |                  | 0.1              | <0.05         | <0.010           | <0.0001         | <0.01            | <1                         | 26 <1             |
| <0.001 | <0.1           | <0.1             |                  | <0.05         | <0.010           | <0.0001         | <0.01            | <1                         | 20 <1             |
| <0.001 | <0.1           |                  | 55               | <0.05         | <0.001           | <0.0001         | <0.01            | <1                         | 18 <1             |
| <0.001 | <0.1           |                  | 1.9              | <0.05         | <0.001           | <0.0001         | <0.01            | <1                         | 21 <1             |
| <0.001 | <0.1           |                  | 0.6              | <0.05         | 0.002            | <0.0001         | <0.01            | <1                         | 23 <1             |
| <0.001 |                | 0.2              | 137              | <0.05         | <0.001           | <0.0001         | <0.01            | <1                         | 31 <1             |
| <0.001 | <0.1           |                  | 46               | <0.05         | <0.001           | <0.0001         | <0.01            | <1                         | 24 <1             |
| <0.001 | <0.1           |                  | 19.1             | <0.05         | <0.001           | <0.0001         | <0.01            | <1                         | 25 <1             |

| Carbonate<br>mg/L | Bicarbonat<br>mg/L | Total Alkal<br>mg/L | Iron - Total<br>mg/L |
|-------------------|--------------------|---------------------|----------------------|
|-------------------|--------------------|---------------------|----------------------|

|    |   |   |      |
|----|---|---|------|
| <1 | 3 | 3 |      |
| <1 | 3 | 3 |      |
| <1 | 2 | 2 | 0.08 |
| <1 | 4 | 4 |      |
| <1 | 7 | 7 |      |
| <1 | 2 | 2 |      |
| <1 | 3 | 3 |      |
| <1 | 4 | 4 |      |
| <1 | 6 | 6 |      |

| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Aluminium<br>mg/L | Cadmium<br>mg/L | Calcium<br>mg/L |
|------------|------|-------------|-------------|-----------------|-------------------|-----------------|-----------------|
| 2/04/2009  | 11.6 | 1900        |             | <0.001          | <0.01             | <0.0001         |                 |
| 11/08/2009 | 11.4 | 1980        |             | 0.003           | <0.05             | <0.0001         |                 |
| 24/02/2010 | 11.3 | 1760        |             | 0.002           | 0.02              | <0.0001         |                 |
| 28/03/2010 | 7.58 | 2750        |             | 0.002           | 0.1               | 0.0003          | 36              |
| 11/07/2010 | 11.7 | 2140        |             | 0.013           | <0.01             | <0.0001         |                 |
| 20/11/2010 | 7.92 | 2670        |             | 0.001           | <0.01             | <0.0001         | 101             |
| 22/08/2011 | 7.36 | 2700        |             | 0.02            | <0.01             | <0.0001         | 367             |
| 20/09/2011 | 7.16 | 2680        |             | 0.012           | <0.01             | <0.0001         | 331             |
| 08/07/2012 | 7.15 | 2730        |             | 0.004           | <0.01             | 0.0001          | 330             |
| 24/06/2013 | 7.28 | 2580        |             | 0.003           | <0.01             | <0.0001         | 332             |
| 31/7/2014  | 7.26 | 2530        |             | 0.008           | <0.01             | <0.0001         | 308             |
| 20/08/2015 | 7.53 | 2610        |             | 0.047           | <0.01             | <0.0001         | 327             |
|            |      |             |             | 0.007           | <0.01             | <0.0001         | 287             |

| <0.001         | <0.05        | <0.001       |                   |                   |                    | <0.001         |                |                  |              |
|----------------|--------------|--------------|-------------------|-------------------|--------------------|----------------|----------------|------------------|--------------|
| Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulphate<br>mg/L | Zinc<br>mg/L |
| 0.007          |              |              |                   |                   |                    | 0.008          |                | 540              | <0.005       |
| 0.012          |              |              |                   |                   |                    | 0.011          |                | 554              | 0.012        |
| 0.01           | <0.05        |              | <1                |                   |                    | 0.007          | 209            | 505              | <0.005       |
| 0.005          |              |              |                   |                   |                    | 0.009          |                | 1260             | 0.026        |
| 0.007          | 0.1          |              | <1                |                   |                    | 0.007          | 206            | 503              | 0.008        |
| 0.002          | 0.35         |              |                   | 42                |                    | 0.006          | 310            | 1280             | 0.035        |
| 0.001          | 2.26         |              |                   | 38                |                    | 0.005          | 302            | 1260             | 0.03         |
| 0.001          | <0.05        |              |                   | 39                |                    | 0.008          | 298            | 1190             | 0.078        |
| 0.002          | <0.05        |              |                   | 39                |                    | 0.005          | 284            | 1290             | 0.015        |
| 0.002          | 0.16         |              |                   | 36                |                    | 0.008          | 270            | 1250             | 0.043        |
| 0.002          | 3.6          |              |                   | 40                |                    | 0.007          | 331            | 1230             | 0.015        |
| 0.011          | <0.05        |              |                   | 34                |                    | 0.001          | 272            | 908              | 0.027        |

| Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium Chloride<br>mg/L | Hydroxide<br>mg/L |
|----------------|------------------|------------------|---------------|------------------|-----------------|------------------|----------------------------|-------------------|
| <0.001         |                  |                  | <0.05         | <0.001           | <0.0001         | <0.01            |                            |                   |
| <0.005         | 0.67             | 140              | 0.01          | 0.007            | <0.0002         | <0.003           |                            |                   |
| 0.004          | 0.5              | 6.8              | <0.05         | <0.010           | <0.0001         | <0.01            |                            |                   |
| 0.004          | <0.1             | 5.3              | <0.05         | 0.015            | <0.0001         | <0.01            | 44                         | 17 <1             |
| 0.027          | 2.3              | 0.9              | <0.05         | <0.01            | <0.0001         | <0.01            |                            |                   |
| 0.001          | 0.7              | 32               | <0.05         | <0.010           | <0.0001         | <0.01            | 43                         | 18 155            |
| 0.02           | 2.4              | 24               | <0.05         | <0.010           | <0.0001         | <0.01            | 19                         | 35 <1             |
| 0.019          | 2.9              | 27               | <0.05         | <0.001           | <0.0001         | <0.01            | 18                         | 34 <1             |
| 0.007          | 2.9              | 3                | <0.05         | <0.001           | <0.0001         | <0.01            | 22                         | 35 <1             |
| 0.014          | 3                | 20               | <0.05         | 0.002            | <0.0001         | <0.01            | 20                         | 34 <1             |
| 0.003          | 3.2              | 4.6              | <0.05         | <0.001           | <0.0001         | <0.01            | 15                         | 43 <1             |
| 0.015          | 3.7              | 7.9              | <0.05         | <0.001           | <0.0001         | <0.01            | 20                         | 37 <1             |
| <0.001         | 3                | 0.9              | <0.05         | <0.001           | <0.0001         | <0.01            | 16                         | 32 <1             |

| Carbonate | Bicarbonat | Total Alkal | Iron - Total |
|-----------|------------|-------------|--------------|
| mg/L      | mg/L       | mg/L        | mg/L         |

|    |    |     |     |      |
|----|----|-----|-----|------|
|    | 24 | 4   | 28  |      |
|    | 37 | <1  | 192 |      |
| <1 |    | 261 | 261 | 5.22 |
| <1 |    | 340 | 340 |      |
| <1 |    | 334 | 334 |      |
| <1 |    | 320 | 320 |      |
| <1 |    | 278 | 278 |      |
| <1 |    | 281 | 281 |      |
| <1 |    | 270 | 270 |      |

| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Aluminium<br>mg/L | Cadmium<br>mg/L | Calcium<br>mg/L |
|------------|------|-------------|-------------|-----------------|-------------------|-----------------|-----------------|
| 2/04/2009  | 6.9  | 430         |             | 0.025           | <0.05             | <0.0001         |                 |
| 11/08/2009 | 7.33 | 436         |             | 0.037           | <0.01             | <0.0001         |                 |
| 25/02/2010 | 7.59 | 425         |             | 0.04            | <0.01             | 0.0034          | 9               |
| 28/03/2010 | 7.57 | 427         |             | 0.07            | 0.01              | <0.0001         |                 |
| 11/07/2010 | 7.47 | 425         |             | 0.062           | <0.01             | <0.0001         | 10              |
| 20/11/2010 | 8.1  | 370         |             | 0.054           | <0.01             | <0.0001         | 10              |
| 22/08/2011 | 7.47 | 358         |             | 0.058           | 0.01              | <0.0001         | 9               |
| 20/09/2011 | 7.13 | 353         |             | 0.054           | <0.01             | <0.0001         | 9               |
| 08/07/2012 | 7.04 | 429         |             | 0.059           | 0.01              | <0.0001         | 9               |
| 24/06/2013 | 7.62 | 331         |             | 0.064           | <0.01             | <0.0001         | 7               |
| 31/7/2014  | 7.37 | 343         |             | 0.082           | <0.01             | <0.0001         | 8               |
| 20/08/2015 | 7.76 | 355         |             | 0.092           | <0.01             | <0.0001         | 7               |

| <0.001         | <0.05        | <0.001       |                   |                   |                    | <0.001         |                |                  |              |
|----------------|--------------|--------------|-------------------|-------------------|--------------------|----------------|----------------|------------------|--------------|
| Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulphate<br>mg/L | Zinc<br>mg/L |
| 0.005          |              |              |                   |                   |                    | 0.005          |                | 52               | 0.043        |
| 0.002          |              |              |                   |                   |                    | 0.003          |                | 56               | 0.042        |
| 0.02           | 0.06         |              | 2                 |                   |                    | 0.002          | 68             | 50               | 0.011        |
| 0.003          |              |              |                   |                   |                    | 0.002          |                | 47               | 0.008        |
| 0.002          | <0.05        |              | 2                 |                   |                    | 0.002          | 62             | 45               | 0.037        |
| 0.002          | <0.05        |              | 2                 |                   |                    | 0.002          | 54             | 51               | 0.043        |
| 0.001          | 0.06         |              | 2                 |                   |                    | <0.001         | 64             | 51               | 0.005        |
| 0.002          | <0.05        |              | 2                 |                   |                    | 0.001          | 60             | 49               | 0.008        |
| 0.005          | 0.06         |              | 2                 |                   |                    | 0.001          | 65             | 49               | 0.016        |
| 0.001          | <0.05        |              | 2                 |                   |                    | <0.001         | 55             | 54               | 0.006        |
| 0.004          | <0.05        |              | 2                 |                   |                    | <0.001         | 60             | 53               | 0.008        |
| 0.007          | <0.05        |              | 2                 |                   |                    | <0.001         | 57             | 57               | 0.012        |

| Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium Chloride<br>mg/L | Hydroxide<br>mg/L |
|----------------|------------------|------------------|---------------|------------------|-----------------|------------------|----------------------------|-------------------|
| <0.001         |                  |                  | <0.05         | <0.001           | <0.0001         | <0.01            |                            |                   |
| <0.005         | 2.1              | 10               | 0.029         | <0.001           | <0.0002         | <0.003           |                            |                   |
| <0.001         | 2.1              | 1                | <0.05         | <0.010           | <0.0001         | <0.01            |                            |                   |
| 0.013          | 2.5              | 20               | <0.05         | <0.010           | <0.0001         | <0.01            | 12                         | 13 <1             |
| 0.003          | 2.3              | 2.5              | <0.05         | <0.01            | <0.0001         | <0.01            |                            |                   |
| <0.001         | 2.2              | 0.7              | <0.05         | <0.010           | <0.0001         | <0.01            | 13                         | 13 <1             |
| <0.001         | 2.4              | <0.1             | <0.05         | <0.010           | <0.0001         | <0.01            | 11                         | 14 <1             |
| <0.001         | 2.9              | 9.7              | <0.05         | <0.001           | <0.0001         | <0.01            | 10                         | 12 <1             |
| <0.001         | 2.9              | 1.2              | <0.05         | <0.001           | <0.0001         | <0.01            | 12                         | 12 <1             |
| <0.001         | 3                | 2.4              | <0.05         | 0.002            | <0.0001         | <0.01            | 11                         | 11 <1             |
| <0.001         | 3.2              | 1.7              | <0.05         | <0.001           | <0.0001         | <0.01            | 9                          | 11 <1             |
| <0.001         | 3.8              | 0.4              | <0.05         | <0.001           | <0.0001         | <0.01            | 12                         | 14 <1             |
| <0.001         | 3                | 1.2              | <0.05         | <0.001           | <0.0001         | <0.01            | 10                         | 14 <1             |

| Carbonate<br>mg/L | Bicarbonat<br>mg/L | Total Alkal<br>mg/L | Iron - Total<br>mg/L |
|-------------------|--------------------|---------------------|----------------------|
|-------------------|--------------------|---------------------|----------------------|

|    |     |     |      |
|----|-----|-----|------|
| <1 | 125 | 125 |      |
| <1 | 117 | 117 |      |
| <1 | 98  | 98  | 0.27 |
| <1 | 109 | 109 |      |
| <1 | 104 | 104 |      |
| <1 | 119 | 119 |      |
| <1 | 90  | 90  |      |
| <1 | 96  | 96  |      |
| <1 | 96  | 96  |      |

| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Aluminium<br>mg/L | Cadmium<br>mg/L    | Calcium<br>mg/L |
|------------|------|-------------|-------------|-----------------|-------------------|--------------------|-----------------|
| 2/04/2009  | 7.2  | 1800        |             | <0.001<br>0.029 | <0.01<br><0.05    | <0.0001<br><0.0001 |                 |
| 11/08/2009 | 7.81 | 1680        |             | 0.015           | <0.01             | 0.0004             |                 |
| 26/02/2010 | 7.67 | 1610        |             | 0.028           | 0.03              | 0.002              | 28              |
| 28/03/2010 | 8.13 | 1530        |             | 0.044           | <0.01             | <0.0001            |                 |
| 11/07/2010 | 7.81 | 1640        |             | 0.017           | <0.01             | <0.0001            | 28              |
| 20/11/2010 | 8.44 | 1400        |             | 0.024           | <0.01             | <0.0001            | 28              |
| 22/08/2011 | 7.69 | 1380        |             | 0.019           | <0.01             | <0.0001            | 25              |
| 20/09/2011 | 7.4  | 1390        |             | 0.017           | <0.01             | <0.0001            | 25              |
| 08/07/2012 | 7.39 | 1490        |             | 0.019           | <0.01             | <0.0001            | 26              |
| 24/06/2013 | 7.53 | 1450        |             | 0.017           | 0.01              | <0.0001            | 26              |
| 31/7/2014  | 7.39 | 1540        |             | 0.094           | <0.01             | <0.0001            | 30              |
| 20/08/2015 | 7.54 | 1550        |             | 0.02            | 0.02              | <0.0001            | 25              |

| <0.001         | <0.05        | <0.001       |                   |                   |                    | <0.001         |                |                  |              |
|----------------|--------------|--------------|-------------------|-------------------|--------------------|----------------|----------------|------------------|--------------|
| Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulphate<br>mg/L | Zinc<br>mg/L |
| 0.002          |              |              |                   |                   |                    | 0.003          |                | 200              | 0.017        |
| 0.001          |              |              |                   |                   |                    | 0.002          |                | 202              | 0.018        |
| 0.014          | <0.05        |              | 8                 |                   |                    | 0.001          | 287            | 187              | <0.005       |
| 0.003          |              |              |                   |                   |                    | 0.001          |                | 177              | <0.005       |
| <0.001         | 0.05         |              | 8                 |                   |                    | <0.001         | 282            | 176              | 0.03         |
| <0.001         | <0.05        |              | 8                 |                   |                    | <0.001         | 287            | 186              | 0.025        |
| 0.001          | <0.05        |              | 8                 |                   |                    | <0.001         | 272            | 182              | 0.022        |
| <0.001         | <0.05        |              | 8                 |                   |                    | <0.001         | 260            | 173              | <0.005       |
| 0.002          | <0.05        |              | 8                 |                   |                    | <0.001         | 252            | 191              | 0.008        |
| 0.004          | <0.05        |              | 8                 |                   |                    | 0.004          | 247            | 174              | 0.014        |
| 0.002          | 3.62         |              | 10                |                   |                    | 0.003          | 337            | 200              | 0.009        |
| 0.018          | <0.05        |              | 8                 |                   |                    | 0.002          | 262            | 159              | 0.03         |

| Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium Chloride<br>mg/L | Hydroxide<br>mg/L |
|----------------|------------------|------------------|---------------|------------------|-----------------|------------------|----------------------------|-------------------|
| <0.001         |                  |                  | <0.05         | <0.001           | <0.0001         | <0.01            |                            |                   |
| <0.005         | 4.4              | 15               | 0.023         | <0.001           | <0.0002         | <0.003           |                            |                   |
| <0.001         | 4.1              | 11               | <0.05         | <0.010           | <0.0001         | <0.01            |                            |                   |
| 0.004          | 4.5              | 55               | <0.05         | <0.010           | <0.0001         | <0.01            | 20                         | 190 <1            |
| 0.004          | 4.5              | 1.4              | <0.05         | <0.01            | <0.0001         | <0.01            |                            |                   |
| <0.001         | 3.8              | 0.1              | <0.05         | <0.010           | <0.0001         | <0.01            | 22                         | 185 <1            |
| <0.001         | 4.2              | 85               | <0.05         | <0.010           | <0.0001         | <0.01            | 19                         | 188 <1            |
| <0.001         | 4.9              | 45               | <0.05         | <0.001           | <0.0001         | <0.01            | 18                         | 171 <1            |
| <0.001         | 4.6              | 2.6              | <0.05         | <0.001           | <0.0001         | <0.01            | 22                         | 174 <1            |
| <0.001         | 4.6              | 3.3              | <0.05         | 0.003            | <0.0001         | <0.01            | 21                         | 189 <1            |
| <0.001         | 4.6              | 1.5              | <0.05         | <0.001           | <0.0001         | <0.01            | 18                         | 210 <1            |
| 0.015          | 5.2              | 5.7              | <0.05         | <0.001           | <0.0001         | <0.01            | 26                         | 231 <1            |
| 0.003          | 4.5              | 1.6              | <0.05         | <0.001           | <0.0001         | <0.01            | 19                         | 224 <1            |

| Carbonate | Bicarbonat | Total Alkal | Iron - Total |
|-----------|------------|-------------|--------------|
| mg/L      | mg/L       | mg/L        | mg/L         |

|    |    |     |     |      |
|----|----|-----|-----|------|
|    | 8  | 332 | 340 |      |
| <1 |    | 310 | 310 |      |
|    | 15 | 237 | 252 | 9.45 |
| <1 |    | 296 | 296 |      |
| <1 |    | 276 | 276 |      |
| <1 |    | 264 | 264 |      |
| <1 |    | 243 | 243 |      |
| <1 |    | 265 | 265 |      |
| <1 |    | 245 | 245 |      |

| DATE       | pH   | EC<br>uS/cm | TDS<br>mg/L | Arsenic<br>mg/L | Aluminium<br>mg/L | Cadmium<br>mg/L | Calcium<br>mg/L |
|------------|------|-------------|-------------|-----------------|-------------------|-----------------|-----------------|
| 2/04/2009  | 5.7  | 51          |             | <0.001          | <0.01             | <0.0001         |                 |
| 11/08/2009 | 5.72 | 70          |             | 0.004           | 0.06              | <0.0001         |                 |
| 27/02/2010 | 6.61 | 67          |             | 0.002           | 0.04              | <0.0001         |                 |
| 29/03/2010 | 6.62 | 57          |             | 0.002           | 0.06              | 0.0039          | <1              |
| 11/07/2010 | 5.98 | 56          |             | <0.001          | 0.31              | <0.0001         |                 |
| 20/11/2010 | 7.01 | 51          |             | <0.001          | <0.01             | <0.0001         | <1              |
| 23/08/2011 | 6.02 | 60          |             | 0.002           | 0.04              | <0.0001         | <1              |
| 20/09/2011 | 5.81 | 55          |             | 0.003           | <0.01             | <0.0001         | <1              |
| 08/07/2012 | 5.63 | 64          |             | <0.001          | 0.02              | <0.0001         | <1              |
| 24/06/2013 | 5.7  | 58          |             | <0.001          | 0.01              | <0.0001         | <1              |
| 31/7/2014  | 6.66 | 65          |             | <0.001          | 0.01              | <0.0001         | <1              |
| 20/08/2015 | 6.43 | 48          |             | 0.001           | <0.01             | <0.0001         | <1              |
|            |      |             |             | 0.001           | <0.01             | <0.0001         | <1              |

| Copper<br>mg/L | Iron<br>mg/L | Lead<br>mg/L | Magnesium<br>mg/L | Manganese<br>mg/L | Molybdenum<br>mg/L | Nickel<br>mg/L | Sodium<br>mg/L | Sulphate<br>mg/L |
|----------------|--------------|--------------|-------------------|-------------------|--------------------|----------------|----------------|------------------|
| <0.001         | <0.05        | <0.001       |                   |                   |                    | <0.001         |                |                  |
| <0.001         |              |              |                   |                   |                    | <0.002         |                | <2               |
| 0.002          |              |              |                   |                   |                    | <0.001         |                | 3                |
| 0.04           | <0.05        |              | <1                |                   |                    | <0.001         | 9              | 2                |
| 0.005          |              |              |                   |                   |                    | <0.001         | <1             |                  |
| 0.001          | <0.05        |              | <1                |                   |                    | 0.001          | 6              | <1               |
| <0.001         | <0.05        |              | <1                |                   |                    | <0.001         | 7              | <1               |
| <0.001         | 0.99         |              | <1                |                   |                    | 0.001          | 7              | <1               |
| <0.001         | 0.55         |              | <1                |                   |                    | 0.001          | 8              | <1               |
| 0.002          | <0.05        |              | <1                |                   |                    | <0.001         | 10             | 2                |
| 0.002          | <0.05        |              | <1                |                   |                    | 0.001          | 8              | 1                |
| 0.004          | <0.05        |              | <1                |                   |                    | <0.001         | 10             | 2                |
| 0.034          | <0.05        |              | <1                |                   |                    | <0.001         | 7              | <1               |

| Zinc<br>mg/L | Cobalt<br>mg/L | Fluoride<br>mg/L | Turbidity<br>NTU | Boron<br>mg/L | Chromium<br>mg/L | Mercury<br>mg/L | Selenium<br>mg/L | Potassium Chloride<br>mg/L | mg/L |
|--------------|----------------|------------------|------------------|---------------|------------------|-----------------|------------------|----------------------------|------|
| 0.009        | <0.001         | 0.06             | 8                | 0.012         | <0.001           | <0.0002         | <0.003           |                            |      |
| 0.037        | 0.001          | <0.1             | 1.9              | <0.05         | <0.010           | <0.0001         | <0.01            |                            |      |
| 0.014        | 0.001          | <0.1             | 3.4              | <0.05         | <0.010           | <0.0001         | <0.01            | 2                          |      |
| 0.006        | <0.001         | <0.1             | 2.7              | <0.05         | <0.01            | <0.0001         | <0.01            |                            |      |
| 0.034        | 0.002          | <0.1             | 60               | <0.05         | <0.010           | <0.0001         | <0.01            | 2                          | 11   |
| 0.04         | 0.001          | <0.1             | 15               | <0.05         | <0.010           | <0.0001         | <0.01            | 2                          | 11   |
| 0.009        | 0.003          | <0.1             | 12               | <0.05         | <0.001           | <0.0001         | <0.01            | 1                          | 10   |
| 0.009        | 0.002          | <0.1             | 220              | <0.05         | <0.001           | <0.0001         | <0.01            | 1                          | 10   |
| 0.011        | 0.002          | <0.1             | 0.3              | <0.05         | 0.002            | <0.0001         | <0.01            | 2                          | 11   |
| 0.02         | 0.001          | 0.2              | 2                | <0.05         | <0.001           | <0.0001         | <0.01            | 2                          | 10   |
| 0.016        | 0.001          | <0.1             | 0.3              | <0.05         | <0.001           | <0.0001         | <0.01            | 3                          | 12   |
| 0.033        | 0.001          | <0.1             | 1.2              | <0.05         | <0.001           | <0.0001         | <0.01            | 1                          | 10   |

| Hydroxide<br>mg/L | Carbonate<br>mg/L | Bicarbonat<br>mg/L | Total Alkal<br>mg/L | Iron - Total<br>mg/L |
|-------------------|-------------------|--------------------|---------------------|----------------------|
|-------------------|-------------------|--------------------|---------------------|----------------------|

|    |    |    |    |      |
|----|----|----|----|------|
| <1 | <1 | 7  | 7  |      |
| <1 | <1 | 17 | 17 |      |
| <1 | <1 | 8  | 8  | 4.46 |
| <1 | <1 | 11 | 11 |      |
| <1 | <1 | 23 | 23 |      |
| <1 | <1 | 6  | 6  |      |
| <1 | <1 | 5  | 5  |      |
| <1 | <1 | 8  | 8  |      |
| <1 | <1 | 5  | 5  |      |

|            |       |       |      |         |           |         |         |        |
|------------|-------|-------|------|---------|-----------|---------|---------|--------|
|            |       |       |      | <0.001  | <0.01     | <0.0001 |         | <0.001 |
|            |       |       |      | <0.001  | <0.01     | <0.0001 |         | <0.001 |
|            | pH    | EC    | TDS  | Arsenic | Aluminium | Cadmium | Calcium | Copper |
|            | Range | uS/cm | mg/L | mg/L    | mg/L      | mg/L    | mg/L    | mg/L   |
| 9-Mar-94   | 7.68  | 3070  |      | 0.005   |           | 0.0025  |         | 0.05   |
| 1-Mar-96   | 7.8   | 805   |      | 0.01    |           | 0.0005  |         | 0.025  |
| 31-May-96  | 7.4   | 1045  |      | 0.03    |           | 0.0013  |         | 0.08   |
| 23-Sep-96  | 6.6   | 800   |      | 0.01    |           | 0.0009  |         | 0.025  |
| 2-Jan-97   | 6.5   | 760   |      | 0.01    |           | 0.00025 |         | 0.15   |
| 31-Mar-97  | 6.9   | 810   |      | 0.005   |           | 0.00025 |         | 0.025  |
| 24-Jun-97  | 6.6   | 770   |      | 0.0025  |           | 0.00025 |         | 0.025  |
| 4-Oct-97   | 6.6   | 810   |      | 0.025   |           | 0.0051  |         | 0.025  |
| 5-Dec-97   | 6.7   | 860   |      | 0.022   |           | 0.00025 |         | 0.025  |
| 7-Jun-98   | 6.4   | 790   |      | 0.024   |           | 0.0041  |         | 0.025  |
| 21-Sep-98  | 6.6   | 760   |      | 0.013   |           | 0.005   |         |        |
| 4-Jan-99   | 6.8   | 700   |      | 0.007   |           | 0.0091  |         |        |
| 28-Jun-99  | 6.6   | 710   |      | 0.005   |           | 0.0045  |         |        |
| 20-Sep-99  | 6.3   | 710   | 590  | 0.0025  |           | 0.0023  | 11      | 0.025  |
| 1-Jan-00   | 6.3   | 720   | 590  | 0.019   |           | 0.0069  | 10      | 0.025  |
| 28-Jun-00  | 6.6   | 690   | 590  | 0.005   |           | 0.0042  | 9.6     | 0.025  |
| 29-Sep-00  | 6.6   | 790   |      | 0.006   |           | 0.0038  |         | 0.025  |
| 8-Sep-05   | 6.7   | 750   |      | 0.034   | 0.025     | 0.0067  |         | 0.01   |
| 28-Mar-06  | 6.4   | 160   |      | 0.009   | 0.025     | 0.0005  |         | 0.005  |
| 14-Jun-06  | 6.6   | 450   |      | 0.023   | 0.025     | 0.0006  |         | 0.005  |
| 28-Aug-06  | 6.9   | 760   |      | 0.025   | 0.092     | 0.0006  |         | 0.01   |
| 14-Dec-06  | 6.8   | 680   |      | 0.023   | 0.025     | 0.0001  |         | 0.005  |
| 02-Mar-07  | 6.8   | 690   |      | 0.026   | 0.025     | 0.0008  |         | 0.01   |
| 12-Mar-08  | 7     | 620   |      | 0.007   | 0.025     | 0.0001  |         | 0.002  |
| 03-Jul-08  | 6.7   | 620   |      | 0.012   | 0.025     | <0.0001 |         | 0.001  |
| 2/04/2009  | 6.6   | 400   |      | 0.017   | <0.015    | <0.0001 |         | <0.001 |
| 11/08/2009 | 7.7   | 589   |      | 0.013   | <0.01     | 0.0002  |         | 0.002  |
| 29/03/2010 | 7.55  | 589   |      | 0.013   | <0.01     | 0.0003  |         | 0.017  |
| 11/07/2010 | 7.32  | 386   |      | 0.014   | 0.14      | <0.0001 | 4       | 0.002  |
| 20/11/2010 | 7.91  | 533   |      | 0.012   | <0.01     | <0.0001 | 5       | 0.002  |
| 23/08/2011 | 7.62  | 498   |      | 0.037   | 0.03      | <0.0001 | 5       | <0.001 |
| 20/09/2011 | 6.67  | 694   |      | <0.001  | 0.01      | <0.0001 | 8       | <0.001 |
| 08/07/2012 | 7.21  | 716   |      | 0.027   | 0.01      | <0.0001 | 7       | <0.001 |
| 24/06/2013 | 7.2   | 632   |      | 0.015   | 0.02      | <0.0001 | 7       | <0.001 |
| 31/7/2014  | 7.17  | 580   |      | 0.019   | <0.01     | <0.0001 | 7       | 0.002  |
| 20/08/2015 | 7.66  | 564   |      | 0.018   | <0.02     | <0.0002 | 7       | 0.003  |

| <0.05 | <0.001 |           |           |            | <0.001 |        |          |
|-------|--------|-----------|-----------|------------|--------|--------|----------|
| <0.05 | <0.001 |           |           |            | <0.001 |        |          |
| Iron  | Lead   | Magnesium | Manganese | Molybdenum | Nickel | Sodium | Sulphate |
| mg/L  | mg/L   | mg/L      | mg/L      | mg/L       | mg/L   | mg/L   | mg/L     |
| 1.2   | 0.08   |           | 0.21      |            |        |        |          |
| 1.96  | 0.9    |           |           |            |        |        | 200      |
| 0.86  | 0.025  |           |           |            |        |        | 180      |
| 11    | 1.4    |           |           |            |        |        | 240      |
| 3.9   | 0.13   |           |           |            |        |        | 220      |
| 1.6   | 0.018  |           | 1         |            |        |        | 200      |
| 2.5   | 0.051  |           | 1.6       |            |        |        | 190      |
| 3.4   | 0.21   |           | 1.8       |            |        |        | 240      |
| 2.8   | 0.008  |           | 1.6       |            |        |        | 220      |
| 3.6   | 0.13   |           | 1.6       |            |        |        | 220      |
| 0.16  | 0.008  |           | 1.6       |            |        |        | 230      |
| 0.14  | 0.006  |           | 1.6       |            |        |        | 260      |
| 0.2   | 0.013  |           | 1.6       |            |        |        | 230      |
| 0.63  | 0.006  | 7.7       | 1.1       |            |        | 120    | 210      |
| 3.8   | 0.035  | 7.2       | 1.8       |            |        | 110    | 240      |
| 3.5   | 0.05   | 7.2       | 1.7       |            |        | 110    | 250      |
| 1.2   | 0.12   |           | 1.4       |            |        |        | 190      |
| 0.08  | 0.001  |           | 1.4       | 0.025      | <0.05  |        | 150      |
| 0.025 | 0.001  |           | 0.26      | 0.025      | <0.05  |        | 36       |
| 0.025 | 0.001  |           | 0.46      | 0.025      | <0.05  |        | 91       |
| 0.025 | 0.001  |           | 1.2       | 0.025      | <0.05  |        | 190      |
|       | 0.001  |           |           | 0.025      | <0.05  |        | 140      |
|       | 0.002  |           |           | 0.025      | <0.05  |        | 140      |
|       | 0.002  |           |           | 0.0025     | 0.004  |        | 56       |
|       | 0.003  |           |           | 0.0025     | 0.002  |        | 160      |
|       |        |           |           |            | 0.002  |        | 83       |
|       |        |           |           |            | 0.004  |        | 141      |
|       |        |           |           |            | 0.002  |        | 119      |
| 0.11  |        | 3         |           |            | <0.001 | 55     | 66       |
| <0.05 |        | 4         |           |            | <0.001 | 81     | 110      |
| 1.04  |        | 4         |           |            | <0.001 | 87     | 81       |
| 0.23  |        | 6         |           |            | <0.001 | 105    | 165      |
| 0.13  |        | 5         |           |            | <0.001 | 108    | 150      |
| 0.54  |        | 5         |           |            | <0.001 | 98     | 133      |
| <0.05 |        | 5         |           |            | <0.001 | 100    | 143      |
| 0.41  |        | 4         |           |            | <0.002 | 92     | 104      |

| <0.001 |        |          | <0.05     |       | <0.001   | <0.0001 | <0.01    |           |    |
|--------|--------|----------|-----------|-------|----------|---------|----------|-----------|----|
| <0.001 |        |          | <0.05     |       | <0.001   | <0.0001 | <0.01    |           |    |
| Zinc   | Cobalt | Fluoride | Turbidity | Boron | Chromium | Mercury | Selenium | Potassium |    |
| mg/L   | mg/L   | mg/L     | NTU       | mg/L  | mg/L     | mg/L    | mg/L     | mg/L      |    |
| 0.17   |        |          |           |       |          |         |          |           |    |
| 0.15   |        |          |           |       |          |         |          |           |    |
| 0.05   |        |          |           |       |          |         |          |           |    |
| 0.24   |        |          |           |       |          |         |          |           |    |
| 0.09   |        |          |           |       |          |         |          |           |    |
| 0.025  |        |          |           |       |          |         |          |           |    |
| 0.025  |        |          |           |       |          |         |          |           |    |
| 0.08   |        |          |           |       |          |         |          |           |    |
| 0.025  |        |          |           |       |          |         |          |           |    |
| 0.025  |        |          |           |       |          |         |          |           |    |
| 0.042  |        |          |           |       |          |         |          |           |    |
| 0.045  |        |          |           |       |          |         |          |           |    |
| 0.019  |        |          |           |       |          |         |          |           |    |
| 0.011  |        |          |           |       |          |         |          |           |    |
| 0.031  |        |          |           |       |          |         |          |           |    |
| 0.012  |        |          |           |       |          |         |          |           |    |
| 0.016  |        |          |           |       |          |         |          |           |    |
| 0.047  | <0.05  |          |           |       |          |         |          |           |    |
| 0.014  | <0.05  |          |           |       |          |         |          |           |    |
| 0.026  | <0.05  |          |           |       |          |         |          |           |    |
| 0.012  |        |          |           |       |          |         |          |           |    |
| 0.018  | <0.05  |          |           |       |          |         |          |           |    |
| 0.026  | <0.05  |          |           |       |          |         |          |           |    |
| 0.03   | <0.005 |          |           |       |          |         |          |           |    |
| 0.022  | <0.005 |          |           |       |          |         |          |           |    |
| 0.006  | <0.005 | 1.4      | 36        | 0.02  | <0.001   | <0.0002 | <0.003   |           |    |
| 0.036  | <0.001 | 2.1      | 19        | <0.05 | <0.010   | <0.0001 | <0.01    |           |    |
| 0.016  | <0.001 | 1.9      | 6.2       | <0.05 | <0.01    | <0.0001 | <0.01    |           |    |
| 0.032  | <0.001 | 1        | 100       | <0.05 | <0.010   | <0.0001 | <0.01    |           | 11 |
| 0.035  | <0.001 | 1.7      | 75        | <0.05 | <0.010   | <0.0001 | <0.01    |           | 12 |
| <0.005 | <0.001 | 1.7      | 55        | <0.05 | <0.001   | <0.0001 | <0.01    |           | 13 |
| <0.005 | <0.001 | 2.2      | 2500      | <0.05 | <0.001   | <0.0001 | <0.01    |           | 21 |
| 0.016  | <0.001 | 2.3      | 12        | <0.05 | <0.001   | <0.0001 | <0.01    |           | 19 |
| 0.013  | <0.001 | 2        | 2.8       | <0.05 | <0.001   | <0.0001 | <0.01    |           | 16 |
| 0.014  | <0.001 | 2.4      | 4.4       | <0.05 | <0.001   | <0.0001 | <0.01    |           | 21 |
| 0.015  | <0.002 | 1.9      | 5.7       | <0.05 | <0.001   | <0.0005 | <0.01    |           | 16 |

| Chloride | Alkalinity | Alkalinity | Alkalinity | Alkalinity as | Iron - Total |
|----------|------------|------------|------------|---------------|--------------|
| mg/L     | mg/L       | mg/L       | mg/L       | mg/L          | mg/L         |

|    |    |  |     |     |      |
|----|----|--|-----|-----|------|
| 17 | <1 |  | 60  | 60  |      |
| 21 | <1 |  | 70  | 70  | 2.92 |
| 20 | <1 |  | 130 | 130 |      |
| 28 | <1 |  | 78  | 78  |      |
| 31 | <1 |  | 107 | 107 |      |
| 39 | <1 |  | 88  | 88  |      |
| 33 | <1 |  | 88  | 88  |      |
| 22 | <1 |  | 106 | 106 |      |

|            |       |       | <0.001 |         | <0.01     |         | <0.0001 |  |
|------------|-------|-------|--------|---------|-----------|---------|---------|--|
|            | pH    | EC    | TDS    | Arsenic | Aluminium | Cadmium | Calcium |  |
|            | Range | uS/cm | mg/L   | mg/L    | mg/L      | mg/L    | mg/L    |  |
| 09-Mar-94  | 8.18  | 5460  |        | 0.005   |           | 0.0025  |         |  |
| 01-Mar-96  | 6.3   | 58    |        | 0.01    |           | 0.00025 |         |  |
| 31-May-96  | 5.8   | 78    |        | 0.01    |           | 0.0016  |         |  |
| 23-Sep-96  | 5.3   | 70    |        | 0.01    |           | 0.00025 |         |  |
| 02-Jan-97  | 5.6   | 88    |        | 0.01    |           | 0.0005  |         |  |
| 31-Mar-97  | 6     | 89    |        | 0.005   |           | 0.00025 |         |  |
| 24-Jun-97  | 6.2   | 89    |        | 0.0025  |           | 0.00025 |         |  |
| 04-Oct-97  | 6     | 150   |        | 0.016   |           | 0.0011  |         |  |
| 05-Dec-97  | 6.3   | 160   |        | 0.008   |           | 0.0007  |         |  |
| 18-Mar-98  | 5.7   | 38    |        | 0.0025  |           | 0.00025 |         |  |
| 07-Jun-98  | 5.5   | 150   |        | 0.0025  |           | 0.00025 |         |  |
| 21-Sep-98  | 5.6   | 71    |        | 0.018   |           | 0.0001  |         |  |
| 04-Jan-99  | 5.9   | 83    |        | 0.022   |           | 0.0001  |         |  |
| 01-Apr-99  | 5.2   | 68    |        | 0.016   |           | 0.0001  |         |  |
| 28-Jun-99  | 5.7   | 71    |        | 0.013   |           | 0.0001  |         |  |
| 20-Sep-99  | 5.7   | 82    | 180    | 0.018   |           | 0.0001  | 1.4     |  |
| 01-Jan-00  | 5.9   | 120   | 250    | 0.011   |           | 0.0001  | 2       |  |
| 01-Mar-00  | 5.8   | 82    | 180    | 0.006   |           | 0.0001  | 0.8     |  |
| 28-Jun-00  | 5.8   | 66    | 150    | 0.005   |           | 0.0001  | 0.6     |  |
| 29-Sep-00  | 5.8   | 65    |        | 0.008   |           | 0.0001  |         |  |
| 07-Jan-01  | 6.4   | 83    |        | 0.009   |           | 0.0001  |         |  |
| 15-Mar-01  | 5.9   | 72    |        | 0.01    |           | 0.0001  |         |  |
| 11-Jun-01  | 5.7   | 69    |        | 0.012   |           | 0.0001  |         |  |
| 08-Sep-05  | 6.2   | 94    |        | 0.007   | 0.12      | 0.0001  |         |  |
| 28-Mar-06  | 6.3   | 110   |        | 0.008   | 4.8       | 0.0001  |         |  |
| 14-Jun-06  | 6.2   | 58    |        | 0.006   | 0.29      | 0.0001  |         |  |
| 28-Aug-06  | 6.4   | 64    |        | 0.0025  | 0.63      | 0.0001  |         |  |
| 14-Dec-06  | 6     | 64    |        | 0.0025  | 2.3       | 0.0001  |         |  |
| 02-Mar-07  | 5.7   | 82    |        | 0.0025  | 0.27      | 0.0001  |         |  |
| 01-Oct-07  | 6     | 110   |        | 0.0025  | 0.07      | 0.0001  |         |  |
| 12-Mar-08  | 6.2   | 95    |        | 0.0025  | 0.26      | 0.0001  |         |  |
| 03-Jul-08  | 6.8   | 52    |        | 0.003   | 0.2       | <0.0001 |         |  |
| 02-Apr-09  | 5.7   | 34    |        | 0.005   | 0.05      | <0.0001 |         |  |
| 11/08/2009 | 6.75  | 183   |        | 0.021   | 0.07      | <0.0001 |         |  |
| 29/03/2010 | 7.01  | 813   |        | 0.005   | 0.2       | <0.0001 |         |  |
| 11/07/2010 | 6.71  | 233   |        | 0.009   | 0.15      | <0.0001 | <1      |  |
| 23/08/2011 | 6.25  | 103   |        | 0.016   | 0.07      | <0.0001 | 1       |  |
| 20/09/2011 | 5.84  | 61    |        | 0.016   | 0.21      | <0.0001 | 1       |  |
| 08/07/2012 | 5.88  | 53    |        | 0.003   | 3.76      | <0.0001 | <1      |  |
| 24/06/2013 | 7.2   | 501   |        | 0.013   | 0.71      | <0.0001 | 1       |  |
| 31/7/2014  | 6.52  | 218   |        | 0.038   | 2.2       | <0.0001 | 2       |  |
| 20/08/2015 | 7.44  | 292   |        | 0.019   | 0.06      | <0.0001 | 7       |  |

| <0.001 | <0.05 | <0.001 |           |           |            | <0.001 |        |          |
|--------|-------|--------|-----------|-----------|------------|--------|--------|----------|
| Copper | Iron  | Lead   | Magnesium | Manganese | Molybdenum | Nickel | Sodium | Sulphate |
| mg/L   | mg/L  | mg/L   | mg/L      | mg/L      | mg/L       | mg/L   | mg/L   | mg/L     |
| 0.03   | 0.5   | 0.03   |           | 0.09      |            |        |        |          |
| 0.025  | 8     | 0.1    |           |           |            |        |        | 2.5      |
| 0.025  | 0.13  | 0.025  |           |           |            |        |        | 2.5      |
| 0.025  | 2.4   | 0.025  |           |           |            |        |        | 2.5      |
| 0.025  | 5.8   | 0.07   |           |           |            |        |        | 2.5      |
| 0.025  | 3.3   | 0.041  |           | 0.025     |            |        |        | 27       |
| 0.025  | 2.4   | 0.029  |           | 0.025     |            |        |        | 12       |
| 0.025  | 3.8   | 0.043  |           | 0.28      |            |        |        | 23       |
| 0.025  | 1.5   | 0.018  |           | 0.15      |            |        |        | 13       |
| 0.025  | 1.7   | 0.014  |           | 0.025     |            |        |        | 3        |
| 0.025  | 1.2   | 0.018  |           | 0.025     |            |        |        | 2        |
| 0.025  | 1.4   | 0.017  |           | 0.025     |            |        |        | 4        |
| 0.025  | 1.9   | 0.012  |           | 0.08      |            |        |        | 11       |
| 0.025  | 1.5   | 0.037  |           | 0.025     |            |        |        | 4        |
| 0.025  | 2.2   | 0.012  |           | 0.025     |            |        |        | 6        |
| 0.025  | 3.1   | 0.008  | 0.8       | 0.025     |            |        | 14     | 13       |
| 0.025  | 3     | 0.013  | 1.2       | 0.16      |            |        | 19     | 13       |
| 0.025  | 2     | 0.013  | 0.25      | 0.05      |            |        | 13     | 16       |
| 0.025  | 2.3   | 0.014  | 0.6       | 0.05      |            |        | 10     | 13       |
| 0.025  | 2.1   | 0.006  |           | 0.05      |            |        |        | 16       |
| 0.025  | 2.2   | 0.014  |           | 0.14      |            |        |        | 11       |
| 0.025  | 3     | 0.008  |           | 0.09      |            |        |        | 8        |
| 0.025  | 1.6   | 0.006  |           | 0.025     |            |        |        | 7        |
| 0.005  | 2.3   | 0.009  |           | 0.12      | 0.025      | <0.05  |        | 8        |
| 0.005  | 2.5   | 0.018  |           | 0.15      | 0.025      | <0.05  |        | 13       |
| 0.005  | 1.4   | 0.004  |           | 0.025     | 0.025      | <0.05  |        | 6        |
| 0.01   | 0.93  | 0.005  |           | 0.025     | 0.025      | <0.05  |        | 3        |
| 0.005  |       | 0.008  |           |           | 0.025      | <0.05  |        | 3        |
| 0.005  |       | 0.005  |           |           | 0.025      | <0.05  |        | 5        |
| 0.001  | 0.53  | 0.002  |           | 0.05      | 0.025      | <0.002 |        | 4        |
| 0.004  |       | 0.004  |           |           | 0.0025     | 0.003  |        | 4        |
| 0.006  |       | 0.012  |           |           | 0.0025     | 0.003  |        | 3        |
| 0.002  |       |        |           |           |            | <0.002 |        | 3        |
| 0.002  |       |        |           |           |            | 0.003  |        | 3        |
| 0.002  |       |        |           |           |            | <0.001 |        | 4        |
| 0.003  | 0.92  | <1     |           |           |            | <0.001 | 8      | 1        |
| <0.001 | 4.98  | <1     |           |           |            | <0.001 | 6      | <1       |
| <0.001 | 5.23  | <1     |           |           |            | 0.001  | 7      | <1       |
| <0.001 | 0.74  | <1     |           |           |            | 0.002  | 8      | <1       |
| 0.002  | 5.62  |        | 1         |           |            | 0.001  | 11     | 4        |
| 0.001  | 18.2  |        | 2         |           |            | 0.004  | 14     | 1        |
| 0.004  | 0.39  |        | 4         |           |            | 0.001  | 91     | 59       |

| <0.001       |                |                  | Turbidity<br>NTU | <0.05<br>Boron<br>mg/L | <0.001<br>Chromium<br>mg/L | <0.0001<br>Mercury<br>mg/L | <0.01<br>Selenium<br>mg/L | Potassium<br>mg/L |
|--------------|----------------|------------------|------------------|------------------------|----------------------------|----------------------------|---------------------------|-------------------|
| Zinc<br>mg/L | Cobalt<br>mg/L | Fluoride<br>mg/L |                  |                        |                            |                            |                           |                   |
| 0.08         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.025        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.025        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.025        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.15         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.025        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.025        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.11         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.11         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.025        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.15         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.12         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.13         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.19         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.11         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.1          |                |                  |                  |                        |                            |                            |                           |                   |
| 0.044        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.071        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.13         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.11         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.11         |                |                  |                  |                        |                            |                            |                           |                   |
| 0.094        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.048        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.052        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.069        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.043        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.056        |                |                  |                  |                        |                            |                            |                           |                   |
| 0.017        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.026        | <0.05          |                  |                  |                        |                            |                            |                           |                   |
| 0.018        | <0.05          | 0.09             |                  |                        |                            |                            |                           |                   |
| 0.031        | <0.005         |                  |                  |                        |                            |                            |                           |                   |
| 0.059        | <0.005         |                  |                  |                        |                            |                            |                           |                   |
| 0.031        | <0.005         | 0.07             | 19               | 0.016                  | <0.001                     | <0.0002                    | <0.003                    |                   |
| 0.075        | 0.002          | <0.1             | 8.5              | <0.05                  | <0.010                     | <0.0001                    | <0.01                     |                   |
| 0.02         | <0.001         | <0.1             | 55               | <0.05                  | <0.01                      | <0.0001                    | <0.01                     |                   |
| 0.114        | <0.001         | <0.1             | 20               | <0.05                  | <0.010                     | <0.0001                    | <0.01                     | 4                 |
| 0.006        | 0.002          | <0.1             | 50               | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 2                 |
| 0.014        | 0.002          | <0.1             | 60               | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 2                 |
| 0.5          | 0.001          | <0.1             | 51               | <0.05                  | 0.002                      | <0.0001                    | <0.01                     | 2                 |
| 0.02         | <0.001         | 0.4              | 86               | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 7                 |
| 0.018        | 0.007          | <0.1             | 180              | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 5                 |
| 0.016        | <0.001         | 0.9              | 7.3              | <0.05                  | <0.001                     | <0.0001                    | <0.01                     | 15                |

| Chloride<br>mg/L | Alkalinity<br>mg/L | Alkalinity<br>mg/L | Alkalinity<br>mg/L | Alkalinity<br>mg/L | Alkalinity as CaCO <sub>3</sub><br>mg/L |
|------------------|--------------------|--------------------|--------------------|--------------------|-----------------------------------------|
|------------------|--------------------|--------------------|--------------------|--------------------|-----------------------------------------|

|    |    |  |     |     |
|----|----|--|-----|-----|
| 6  | <1 |  | 86  | 86  |
| 6  | <1 |  | 42  | 42  |
| 7  | <1 |  | 17  | 17  |
| 8  | <1 |  | 14  | 14  |
| 22 | <1 |  | 193 | 193 |
| 11 | <1 |  | 71  | 71  |
| 16 | <1 |  | 54  | 54  |

| Units      |      |       |      |         |           |
|------------|------|-------|------|---------|-----------|
|            | pH   | EC    | TDS  | Arsenic | Aluminium |
|            |      | uS/cm | mg/L | mg/L    | mg/L      |
| 20-Nov-95  | 5.61 | 92    |      | 0.005   |           |
| 01-Mar-96  | 6.6  | 75    |      | 0.01    |           |
| 31-May-96  | 5.8  | 102   |      | 0.02    |           |
| 23-Sep-96  | 5.2  | 90    |      | 0.01    |           |
| 02-Jan-97  | 5.3  | 80    |      | 0.01    |           |
| 31-Mar-97  | 5.7  | 80    |      | 0.005   |           |
| 24-Jun-97  | 5.8  | 85    |      | 0.0025  |           |
| 04-Oct-97  | 5.4  | 84    |      | 0.0025  |           |
| 05-Dec-97  | 5.5  | 79    |      | 0.0025  |           |
| 18-Mar-98  | 6.1  | 69    |      | 0.0025  |           |
| 07-Jun-98  | 5.7  | 120   |      | 0.0025  |           |
| 06-Jul-98  |      |       |      |         |           |
| 21-Sep-98  | 5.6  | 80    |      | 0.0025  |           |
| 04-Jan-99  | 5.8  | 78    |      | 0.0025  |           |
| 01-Apr-99  | 5.5  | 79    |      | 0.0025  |           |
| 28-Jun-99  | 5.7  | 76    |      | 0.0025  |           |
| 20-Sep-99  | 5.8  | 82    | 110  | 0.0025  |           |
| 01-Jan-00  | 5.8  | 100   | 120  | 0.0025  |           |
| 01-Mar-00  | 6    | 140   | 140  | 0.0025  |           |
| 28-Jun-00  | 6.1  | 150   | 150  | 0.0025  |           |
| 29-Sep-00  | 5.9  | 90    |      | 0.005   |           |
| 07-Jan-01  | 6    | 92    |      | 0.005   |           |
| 15-Mar-01  | 6.2  | 90    |      | 0.005   |           |
| 11-Jun-01  | 6    | 85    |      | 0.006   |           |
| 03-Jul-04  | 6.8  | 66    |      | 0.014   | 0.025     |
| 09-Jun-05  | 6.2  | 110   |      | 0.0025  | 0.025     |
| 08-Sep-05  | 5.8  | 84    |      | 0.0025  | 0.025     |
| 28-Mar-06  | 7.1  | 580   |      | 0.006   | 0.69      |
| 14-Jun-06  | 6.8  | 430   |      | 0.15    | 0.06      |
| 28-Aug-06  | 6.3  | 100   |      | 0.0025  | 0.025     |
| 14-Dec-06  | 5.9  | 100   |      | 0.005   | 0.025     |
| 02-Mar-07  | 5.9  | 130   |      | 0.0025  | 0.025     |
| 01-Oct-07  | 5.8  | 84    |      | 0.005   | 0.025     |
| 12-Mar-08  | 6.1  | 100   |      | 0.0025  | 0.025     |
| 03-Jul-08  | 5.7  | 76    |      | 0.003   | 0.025     |
| 2/04/2009  | 5.9  | 9     |      | 0.007   | <0.05     |
| 11/08/2009 | 6.69 | 113   |      | 0.059   | <0.01     |
| 29/03/2010 | 6.75 | 117   |      | 0.028   | 0.02      |
| 11/07/2010 | 6.21 | 138   |      | 0.03    | <0.01     |
| 23/08/2011 | 6.9  | 247   |      | 0.096   | <0.01     |
| 20/09/2011 | 6.2  | 158   |      | 0.087   | <0.01     |
| 08/07/2012 | 6.9  | 276   |      | 0.093   | <0.01     |
| 24/06/2013 | 7.19 | 498   |      | 0.079   | <0.01     |
| 31/7/2014  | 6.93 | 233   |      | 0.116   | <0.01     |
| 20/08/2015 | 7.47 | 311   |      | 0.02    | 0.02      |

|         | <0.001 | <0.05 | <0.001 |           |           |            | <0.001 |        |
|---------|--------|-------|--------|-----------|-----------|------------|--------|--------|
| Calcium | Copper | Iron  | Lead   | Magnesium | Manganese | Molybdenum | Nickel | Sodium |
| mg/L    | mg/L   | mg/L  | mg/L   | mg/L      | mg/L      | mg/L       | mg/L   | mg/L   |
| 0.5     | 0.005  | <0.1  | 0.02   | 0.5       | 0.005     | 0.005      | 0.005  |        |
|         | 0.025  | 0.1   | 0.0005 |           |           |            |        |        |
|         | 0.025  | 0.025 | 0.025  |           |           |            |        |        |
|         | 0.025  | 0.2   | 0.025  |           |           |            |        |        |
|         | 0.025  | 0.42  | 0.011  |           |           |            |        |        |
|         | 0.025  | 0.025 | 0.016  |           | 0.025     |            |        |        |
|         | 0.025  | 0.18  | 0.034  |           | 0.025     |            |        |        |
|         | 0.025  | 0.18  | 0.049  |           | 0.025     |            |        |        |
|         | 0.025  | 0.16  | 0.003  |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.001  |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.0005 |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.0005 |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.0005 |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.0005 |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.003  |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.001  |           | 0.025     |            |        |        |
| 1       | 0.025  | 0.025 | 0.001  | 0.7       | 0.025     |            |        | 14     |
| 1.2     | 0.025  | 0.025 | 0.001  | 0.7       | 0.025     |            |        | 16     |
| 0.9     | 0.025  | 0.025 | 0.001  | 0.6       | 0.025     |            |        | 22     |
| 2.7     | 0.025  | 0.025 | 0.001  | 1.3       | 0.025     |            |        | 22     |
|         | 0.025  | 0.025 | 0.001  |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.001  |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.001  |           | 0.025     |            |        |        |
|         | 0.025  | 0.025 | 0.001  |           | 0.025     |            |        |        |
|         | 0.005  |       | 0.002  |           | 0.025     | 0.025      | <0.05  |        |
|         | 0.02   |       | 0.31   |           | 0.025     | 0.025      | <0.05  |        |
|         | 0.005  | 0.025 | 0.011  |           | 0.025     | 0.025      | <0.05  |        |
|         | 0.005  | 0.39  | 0.004  |           | 0.11      | 0.025      | <0.05  |        |
|         | 0.005  |       | 0.001  |           | 0.37      | 0.025      | <0.05  |        |
|         | 0.01   | 0.025 | 0.001  |           | 0.025     | 0.025      | <0.05  |        |
|         | 0.005  |       | 0.001  |           |           | 0.025      | <0.05  |        |
|         | 0.01   |       | 0.001  |           |           | 0.025      | <0.05  |        |
|         | 0.0005 | 0.025 | 0.0005 |           | 0.025     | 0.025      | 0.001  |        |
|         | 0.0005 |       | 0.0005 |           |           | 0.0025     | 0.003  |        |
|         | 0.0005 |       | 0.0005 |           |           | 0.0025     | 0.001  |        |
| <0.001  |        |       |        |           |           |            | <0.002 |        |
| <0.001  |        |       |        |           |           |            | 0.001  |        |
|         | 0.013  |       |        |           |           |            | <0.001 |        |
| 1       | 0.002  | <0.05 |        | 1         |           |            | 0.002  | 18     |
| 2       | <0.001 | 2.98  |        | 2         |           |            | 0.002  | 18     |
| 1       | <0.001 | 2.37  |        | 2         |           |            | 0.002  | 18     |
| 3       | <0.001 | 3.07  |        | 3         |           |            | 0.003  | 22     |
| 4       | <0.001 | 4.35  |        | 5         |           |            | 0.002  | 22     |
| 2       | <0.001 | 1.95  |        | 3         |           |            | 0.002  | 24     |
| 8       | 0.049  | 0.48  |        | 4         |           |            | 0.001  | 92     |

| Sulphate | Zinc   | Cobalt | Fluoride | Turbidity | Boron | Chromium | Mercury | Selenium |
|----------|--------|--------|----------|-----------|-------|----------|---------|----------|
| mg/L     | mg/L   | mg/L   | mg/L     | NTU       | mg/L  | mg/L     | mg/L    | mg/L     |
| 5        | 0.03   | <0.001 |          |           | <0.05 | <0.001   | <0.0001 | <0.01    |
| <5       | 0.025  |        |          |           |       |          |         |          |
| <5       | 0.05   |        |          |           |       |          |         |          |
| <5       | 0.06   |        |          |           |       |          |         |          |
| <5       | 0.025  |        |          |           |       |          |         |          |
| <5       | 0.025  |        |          |           |       |          |         |          |
| <5       | 0.025  |        |          |           |       |          |         |          |
| <5       | 0.025  |        |          |           |       |          |         |          |
| <5       | 0.025  |        |          |           |       |          |         |          |
| <2       | 0.025  |        |          |           |       |          |         |          |
| 2        | 0.37   |        |          |           |       |          |         |          |
| 3        | 0.2    |        |          |           |       |          |         |          |
| 6        | 0.081  |        |          |           |       |          |         |          |
| 3        | 0.051  |        |          |           |       |          |         |          |
| 4        | 0.024  |        |          |           |       |          |         |          |
| 2        | 0.045  |        |          |           |       |          |         |          |
| 8        | 0.023  |        |          |           |       |          |         |          |
| 20       | 0.051  |        |          |           |       |          |         |          |
| 19       | 0.26   |        |          |           |       |          |         |          |
| 9        |        |        |          |           |       |          |         |          |
| 7        |        |        |          |           |       |          |         |          |
| 5        |        |        |          |           |       |          |         |          |
| 3        |        |        |          |           |       |          |         |          |
| 5        | 0.008  |        |          |           |       |          |         |          |
| 7        | 0.089  |        |          |           |       |          |         |          |
| 4        | 0.058  | <0.05  |          |           |       |          |         |          |
| 18       | 0.025  | <0.05  |          |           |       |          |         |          |
| 19       | 0.0025 | <0.05  |          |           |       |          |         |          |
| 3        | 0.056  |        |          |           |       |          |         |          |
| 3        | 0.02   | <0.05  |          |           |       |          |         |          |
| 11       | 0.092  | <0.05  |          |           |       |          |         |          |
| 4        | 0.046  | <0.05  | 0.09     |           |       |          |         |          |
| 8        | 0.012  | <0.005 |          |           |       |          |         |          |
| 3        | 0.011  | <0.005 |          |           |       |          |         |          |
| 3        | 0.011  | <0.005 | 0.1      | 3         | 0.013 | <0.001   | <0.0002 | <0.003   |
| 3        | 0.034  | <0.001 | 0.1      | 0.7       | <0.05 | <0.010   | <0.0001 | <0.01    |
| 3        | 0.046  | <0.001 | 0.2      | 0.5       | <0.05 | <0.01    | <0.0001 | <0.01    |
| 2        | 0.143  | 0.001  | 0.1      | 3.6       | <0.05 | <0.010   | <0.0001 | <0.01    |
| 1        | <0.005 | 0.002  | 0.2      | 15        | <0.05 | <0.001   | <0.0001 | <0.01    |
| 2        | <0.005 | 0.001  | 0.2      | 18        | <0.05 | <0.001   | <0.0001 | <0.01    |
| <1       | 0.006  | 0.002  | 0.3      | 4.5       | <0.05 | 0.003    | <0.0001 | <0.01    |
| 1        | 0.005  | 0.002  | 0.6      | 7.1       | <0.05 | <0.001   | <0.0001 | <0.01    |
| <1       | 0.016  | 0.002  | <0.1     | 3.9       | <0.05 | <0.001   | <0.0001 | <0.01    |
| 62       | 0.041  | <0.001 | 1        | 5.6       | <0.05 | <0.001   | <0.0001 | <0.01    |

| Potassium<br>mg/L | Chloride<br>mg/L | Alkalinity<br>mg/L | Alkalinity<br>mg/L | Alkalinity<br>mg/L | Alkalinity as CaCO3<br>mg/L |
|-------------------|------------------|--------------------|--------------------|--------------------|-----------------------------|
|-------------------|------------------|--------------------|--------------------|--------------------|-----------------------------|

|    |    |    |    |     |     |
|----|----|----|----|-----|-----|
| 9  | 11 | <1 | <1 | 30  | 30  |
| 10 | 11 | <1 | <1 | 110 | 110 |
| 10 | 10 | <1 | <1 | 50  | 50  |
| 14 | 10 | <1 | <1 | 106 | 106 |
| 15 | 11 | <1 | <1 | 210 | 210 |
| 13 | 10 | <1 | <1 | 98  | 98  |
| 16 | 17 | <1 | <1 | 58  | 58  |

|           |       | <0.1          |                    |                    |                    | <0.01 <0.001        |                   |
|-----------|-------|---------------|--------------------|--------------------|--------------------|---------------------|-------------------|
| Date      | pH    | EC<br>(µS/cm) | Fluoride(<br>mg/L) | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | Aluminium<br>(mg/L) | Arsenic<br>(mg/L) |
| 2-Feb-94  | 4.880 | 71.000        |                    |                    |                    |                     | <0.01             |
| 9-Mar-94  | 2.810 | 1870.000      |                    |                    |                    |                     | 0.970             |
| 23-Mar-94 | 3.020 | 690.000       |                    |                    |                    |                     | <0.01             |
| 25-Mar-94 | 2.870 | 1030.000      |                    |                    |                    |                     | <0.01             |
| 19-Jan-95 | 6.640 | 157.000       |                    | 33.000             |                    |                     | 0.020             |
| 28-Jan-96 | 3.900 |               |                    | 200.000            |                    |                     | <0.02             |
| 6-Dec-96  | 5.100 |               |                    | 33.000             |                    |                     | <0.02             |
| 31-Dec-96 | 6.300 |               |                    | 17.000             |                    |                     | <0.02             |
| 28-Feb-97 | 5.000 | 370.000       |                    | 190.000            |                    |                     | <0.01             |
| 1-Dec-97  | 7.900 | 110.000       |                    | 27.000             |                    |                     | 0.003             |
| 31-Dec-97 | 6.100 | 250.000       |                    | 76.000             |                    |                     | 0.003             |
| 15-Jan-98 | 6.800 | 140.000       |                    | 32.000             |                    |                     | 0.003             |
| 31-Jan-98 | 7.000 | 250.000       |                    | 52.000             |                    |                     | 0.003             |
| 15-Feb-98 | 6.700 | 160.000       |                    | 43.000             |                    |                     | 0.003             |
| 1-Mar-98  | 6.600 | 150.000       |                    | 36.000             |                    |                     | 0.003             |
| 15-Mar-98 | 6.900 | 180.000       |                    | 44.000             |                    |                     | 0.003             |
| 1-Jan-99  | 6.800 | 110.000       |                    | 22.000             |                    |                     | 0.008             |
| 15-Jan-99 | 6.800 | 100.000       |                    | 25.000             |                    |                     | 0.003             |
| 15-Feb-99 | 7.200 | 320.000       |                    | 79.000             |                    |                     | 0.008             |
| 1-Mar-99  | 6.80  | 150           |                    | 33                 |                    |                     | 0.007             |
| 15-Jan-00 | 6.50  | 190           |                    | 50                 |                    |                     | 0.005             |
| 15-Feb-00 | 6.70  | 170           |                    | 32                 |                    |                     | 0.008             |
| 29-Feb-00 | 6.80  | 200           |                    | 48                 |                    |                     | 0.012             |
| 15-Dec-00 | 6.2   | 140           |                    | 32                 |                    |                     | 0.007             |
| 4-Jan-01  | 7.5   | 180           |                    | 44                 |                    |                     | 0.026             |
| 15-Feb-01 | 7.3   | 190           |                    | 46                 |                    |                     | 0.029             |
| 1-Mar-01  | 7.5   | 200           |                    | 44                 |                    |                     | 0.033             |
| 15-Mar-01 | 7.2   | 140           |                    | 28                 |                    |                     | 0.021             |
| 1-Apr-01  | 7.5   | 160           |                    | 27                 |                    |                     | 0.019             |
| 3-Jul-04  |       |               |                    |                    |                    |                     |                   |
| 14-Jan-05 | 6.7   | 360           |                    | 62                 |                    | 1.4                 | 0.015             |
| 26-Jan-06 | 6.9   | 550           |                    | 75                 |                    |                     | 0.007             |
| 14-Feb-06 | 9.1   | 610           |                    | 93                 |                    | 0.24                | 0.012             |
| 27-Mar-06 | 7.7   | 250           |                    | 44                 |                    | 0.35                | 0.007             |
| 19-Apr-06 | 9.20  | 310           |                    | 58                 |                    | 0.09                | 0.009             |
| 17-May-06 | 7.5   | 550           |                    | 52                 |                    | 0.16                | 0.007             |
| 14-Jun-06 |       |               |                    |                    |                    |                     |                   |
| 13-Jul-06 | 6.6   | 450           |                    | 100                |                    | 2.3                 | 0.003             |
| 13-Feb-07 | 7.3   | 530           |                    | 88                 |                    | 2.7                 | 0.01              |
| 15-Mar-07 | 6.8   | 380           |                    | 56                 |                    | 0.23                | 0.008             |
| 4-Jan-08  | 6.5   | 300           | 0.09               | 50                 |                    | 0.2                 | 0.007             |
| 31-Jan-08 | 6.8   | 400           |                    | 56                 |                    | 0.14                | 0.013             |
| 12-Mar-08 | 7.7   | 290           |                    | 46                 |                    | 0.19                | 0.008             |
| 5-Jan-09  | 6.7   | 230           | 0.16               | 48                 |                    | 0.33                | 0.008             |
| 6-Jan-09  | 6.7   | 240           | 0.18               | 50                 |                    | 0.28                | 0.008             |
| 7-Jan-09  | 6.9   | 400           | 0.22               | 72                 |                    | 0.34                | 0.009             |
| 8-Jan-09  | 6.9   | 400           | 0.22               | 73                 |                    | 0.29                | 0.009             |
| 5-Feb-09  | 7.3   | 170           | 0.24               | 30                 |                    | 0.13                | 0.01              |
| 17-Feb-09 | 7.4   | 130           | 0.23               | 24                 | 29                 | 0.07                | 0.008             |
| 26-Feb-09 | 7.4   | 110           | 0.2                | 23                 | 69                 | 0.51                | 0.009             |
| 12-Mar-09 | 6.7   | 170           | 0.24               | 41                 | 30                 | 0.25                | 0.016             |

|            |      |     |      |    |      |      |        |
|------------|------|-----|------|----|------|------|--------|
| 24/Jan/10  | 6.74 | 334 | 0.3  | 64 | 4.2  | 0.19 | 0.01   |
| 18/Feb/10  | 6.84 | 215 | 0.3  | 40 | 18   | 0.1  | 0.009  |
| 19/Feb/10  | 6.97 | 220 | 0.3  | 40 | 18   | 0.08 | 0.009  |
| 20/Feb/10  | 7    | 220 | 0.3  | 40 | 17   | 0.07 | 0.008  |
| 21/Feb/10  | 6.98 | 220 | 0.3  | 41 | 17   | 0.08 | 0.009  |
| 22/Feb/10  | 6.99 | 217 | 0.3  | 41 | 17   | 0.06 | 0.008  |
| 23/02/2011 | 7.07 | 88  | 0.2  | 14 | 23.3 | 0.96 | 0.005  |
| 24/02/2011 | 7.33 | 81  | 0.2  | 13 | 23.1 | 0.92 | 0.005  |
| 25/02/2011 | 7.32 | 77  | 0.2  | 12 | 20   | 0.83 | 0.005  |
| 26/02/2011 | 7.18 | 78  | 0.2  | 12 | 20.5 | 0.86 | 0.004  |
| 27/02/2011 | 7.13 | 82  | 0.2  | 14 | 22.5 | 0.86 | 0.005  |
| 28/02/2011 | 7.48 | 78  | 0.2  | 13 | 19.7 | 0.86 | 0.005  |
| 01/03/2011 | 7.32 | 89  | 0.4  | 14 | 19.7 | 1.04 | 0.005  |
| 30/03/2011 | 7.39 | 135 | 0.3  | 24 | 36   | 0.62 | 0.008  |
| 17/Jan/12  | 6.56 | 120 | 0.1  | 22 | 19   | 1.78 | 0.007  |
| 18/Jan/12  | 6.42 | 90  | <0.1 | 18 | 45   | 1.46 | 0.003  |
| 19/Jan/12  | 6.64 | 136 | 0.1  | 30 | 44   | 1.92 | 0.004  |
| 20/Jan/12  | 6.6  | 152 | 0.1  | 35 | 47   | 1.5  | 0.005  |
| 21/Jan/12  | 6.87 | 158 | 0.2  | 35 | 27   | 1.12 | 0.005  |
| 22/Jan/12  | 6.55 | 99  | <0.1 | 21 | 122  | 0.32 | 0.002  |
| 23/Jan/12  | 6.61 | 98  | 0.2  | 20 | 99   | 0.32 | 0.003  |
| 10/03/2012 | 7.31 | 321 | 0.3  | 70 | 70   | 0.29 | 0.006  |
| 25/01/2013 | 6.53 | 123 | 0.1  | 26 | 32   | 0.61 | 0.004  |
| 26/01/2013 | 6.64 | 123 | 0.1  | 26 | 24   | 0.6  | 0.004  |
| 27/01/2013 | 6.79 | 128 | 0.1  | 28 | 21   | 0.72 | 0.004  |
| 31/01/2013 | 7.05 | 139 | 0.3  | 33 | 18   | 0.79 | 0.0042 |
| 07/02/2014 | 7.02 | 83  | 0.1  | 14 | 102  | 0.58 | 0.002  |
| 01/03/2014 | 6.8  | 99  | 0.1  | 15 | 32   | 0.76 | 0.005  |
| 25/01/2015 | 7.58 | 371 | 0.2  | 40 | 27.2 | 0.56 | 0.006  |
| 28/02/2015 | 7.36 | 183 | 0.4  | 30 | 40.7 | 0.82 | 0.005  |
| 29/01/2016 | 6.96 | 311 | 0.2  | 43 | 14.5 | 0.2  | 0.007  |
| 19/02/2016 | 7.74 | 445 | 0.3  | 52 | 11.6 | 0.2  | 0.007  |

|                   |                   |                    |                  |                  |                   |                  |                    |                |
|-------------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|----------------|
| <0.05             | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |
| Filterable (mg/L) |                   |                    |                  |                  |                   |                  |                    |                |
| Boron<br>(mg/L)   | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) | Zinc<br>(mg/L) |
|                   | 0.003             |                    |                  | <0.01            | <0.01             |                  |                    |                |
|                   | 0.030             |                    |                  | 3.27             | 3.270             |                  |                    |                |
|                   | 0.010             |                    |                  | 0.63             | 0.630             |                  |                    |                |
|                   | 0.020             |                    |                  | 1.64             | 1.640             |                  |                    |                |
|                   | 0.003             |                    |                  | <0.01            | <0.01             |                  |                    |                |
|                   | 0.005             |                    |                  | 0.38             | 0.380             |                  |                    |                |
|                   | <0.0005           |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.002             |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.002             |                    |                  | 0.06             | 0.060             |                  |                    |                |
|                   | <0.0005           |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.001             |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.0005           |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.0005           |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.0005           |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.0005           |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.0005           |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.0005           |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.00002          |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.00002          |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.00002          |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | <0.00002          |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.000             | 3.500              |                  | <0.05            | <0.05             |                  | <0.05              |                |
|                   | 0.000             | 1.900              |                  | <0.05            | <0.05             |                  | <0.05              |                |
|                   | 0.000             | 4.600              |                  | <0.05            | <0.05             |                  | <0.05              |                |
|                   | 0.0001            |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.0001            |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.0001            |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.0001            |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.0001            |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.0001            |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.0001            |                    |                  | <0.05            | <0.05             |                  |                    |                |
|                   | 0.0001            |                    |                  | 0.01             | 0.01              |                  | <0.05              |                |
|                   | 0.0001            |                    |                  | 0.01             | 0.01              |                  | <0.05              |                |
|                   | 0.0001            |                    |                  | 0.01             | 0.01              |                  | <0.05              |                |
|                   | <0.0005           |                    |                  | 0.02             | 0.02              |                  | <0.05              |                |
|                   | 0.0001            |                    |                  | <0.01            | <0.01             |                  | <0.05              |                |
|                   | 0.0001            |                    |                  | 0.01             | 0.01              |                  | <0.05              |                |
|                   | 0.0001            |                    |                  | 0.01             | 0.01              |                  | <0.05              |                |
|                   | 0.0001            |                    |                  | 0.011            | 0.011             |                  | 0.002              |                |
|                   | 0.0001            |                    |                  | <0.01            | <0.01             |                  | <0.05              |                |
|                   | 0.0001            |                    |                  | 0.006            | 0.006             |                  | 0.003              |                |
|                   | 0.0002            |                    |                  | 0.016            | 0.016             |                  | 0.004              |                |
|                   | 0.0001            |                    |                  | 0.007            | 0.007             |                  | 0.002              |                |
| 0.023             | <0.0001           | <0.001             | <0.005           | 0.016            | <0.0002           | 0.003            | <0.003             | 0.03           |
| 0.019             | <0.0001           | <0.001             | <0.005           | 0.011            | <0.0002           | 0.003            | <0.003             | 0.03           |
| 0.028             | <0.0001           | <0.001             | <0.005           | 0.012            | <0.0002           | 0.003            | <0.003             | 0.029          |
| 0.026             | <0.0001           | <0.001             | <0.005           | 0.012            | <0.0002           | 0.003            | <0.003             | 0.026          |
| 0.017             | <0.0001           | <0.001             | <0.005           | 0.008            | <0.0002           | 0.002            | <0.003             | 0.021          |
| 0.016             | <0.0001           | <0.001             | <0.005           | 0.006            | <0.0002           | <0.002           | <0.003             | 0.01           |
| 0.006             | <0.0001           | 0.001              | <0.005           | 0.007            | <0.0002           | <0.002           | <0.003             | 0.017          |
| 0.024             | <0.0001           | 0.002              | <0.005           | 0.007            | <0.0002           | 0.002            | <0.003             | 0.018          |

|       |         |        |        |       |         |        |       |        |
|-------|---------|--------|--------|-------|---------|--------|-------|--------|
| <0.05 | <0.0001 | <0.010 | 0.002  | 0.007 | <0.0001 | 0.003  | <0.01 | 0.022  |
| <0.05 | <0.0001 | <0.010 | <0.001 | 0.008 | <0.0001 | 0.002  | <0.01 | 0.017  |
| <0.05 | <0.0001 | <0.010 | <0.001 | 0.008 | <0.0001 | 0.002  | <0.01 | 0.016  |
| <0.05 | 0.0001  | <0.010 | <0.001 | 0.009 | <0.0001 | 0.002  | <0.01 | 0.016  |
| <0.05 | <0.0001 | <0.010 | <0.001 | 0.008 | <0.0001 | 0.002  | <0.01 | 0.017  |
| <0.05 | <0.0001 | <0.010 | <0.001 | 0.008 | <0.0001 | 0.002  | <0.01 | 0.014  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.028 | <0.0001 | 0.001  | <0.01 | 0.013  |
| <0.05 | <0.0001 | 0.001  | <0.001 | 0.034 | <0.0001 | 0.001  | <0.01 | 0.014  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.058 | <0.0001 | 0.001  | <0.01 | 0.016  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.063 | <0.0001 | 0.001  | <0.01 | 0.014  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.062 | <0.0001 | 0.001  | <0.01 | 0.015  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.061 | <0.0001 | 0.001  | <0.01 | 0.014  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.056 | <0.0001 | 0.001  | <0.01 | 0.015  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.004 | <0.0001 | 0.001  | <0.01 | 0.008  |
| <0.05 | <0.0001 | 0.001  | <0.001 | 0.009 | <0.0001 | 0.002  | <0.01 | 0.013  |
| <0.05 | <0.0001 | 0.002  | <0.001 | 0.007 | <0.0001 | 0.002  | <0.01 | 0.02   |
| <0.05 | <0.0001 | 0.002  | <0.001 | 0.009 | <0.0001 | 0.002  | <0.01 | 0.016  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.007 | <0.0001 | 0.002  | <0.01 | 0.018  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.007 | <0.0001 | 0.001  | <0.01 | 0.009  |
| <0.05 | <0.0001 | <0.001 | 0.001  | 0.003 | <0.0001 | <0.001 | <0.01 | 0.013  |
| <0.05 | <0.0001 | <0.001 | 0.001  | 0.003 | <0.0001 | <0.001 | <0.01 | 0.012  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.006 | <0.0001 | 0.002  | <0.01 | 0.006  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.006 | <0.0001 | 0.002  | <0.01 | 0.042  |
| <0.05 | <0.0001 | 0.003  | <0.001 | 0.006 | <0.0001 | 0.002  | <0.01 | 0.043  |
| <0.05 | <0.0001 | 0.002  | <0.001 | 0.006 | <0.0001 | 0.002  | <0.01 | 0.024  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.008 | <0.0001 | 0.003  | <0.01 | 0.012  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.006 | <0.0001 | <0.001 |       | 0.011  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.005 | <0.0001 | 0.001  | <0.01 | 0.009  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.007 | <0.0001 | 0.001  | <0.01 | 0.008  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.008 | <0.0001 | <0.001 | <0.01 | <0.005 |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.008 | <0.0001 | 0.002  |       | 0.01   |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.008 | <0.0001 | 0.002  | <0.01 | <0.005 |

| Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Molybdenum (mg/L) | Sodium (mg/L) | Potassium (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | TDS (mg/L) |
|-------------|-------------|------------------|-------------------|---------------|------------------|----------------|------------------|------------|
| 0.29        | <0.01       | 0.1              |                   |               |                  |                |                  |            |
| 102         | <0.01       | 4.65             |                   |               |                  |                |                  |            |
| 2.4         | <0.01       | 3.22             |                   |               |                  |                |                  |            |
| 0.2         | <0.01       |                  |                   |               |                  |                | 2.91             |            |
| 1.9         | <0.01       | 0.08             |                   |               |                  |                | 2                |            |
| 1.9         | 0.0025      |                  |                   |               |                  |                |                  |            |
| 5           | 0.022       | 0.37             |                   |               |                  |                |                  |            |
| 3.5         | 0.013       | 0.14             |                   |               |                  |                |                  |            |
| 0.08        | 0.001       | 0.92             |                   |               |                  |                |                  |            |
| 2.5         | 0.015       | 0.09             |                   |               |                  |                |                  |            |
| 0.13        | 0.001       | 0.58             |                   |               |                  |                |                  |            |
| 1.5         | 0.005       | <0.05            |                   |               |                  |                |                  |            |
| 0.68        | 0.001       | <0.05            |                   |               |                  |                |                  |            |
| 2.2         | 0.007       | 0.09             |                   |               |                  |                |                  |            |
| 0.64        | 0.003       | 0.09             |                   |               |                  |                |                  |            |
| 0.97        | 0.003       | <0.05            |                   |               |                  |                |                  |            |
| 2.3         | 0.004       | 0.11             |                   |               |                  |                |                  |            |
| 0.4         | 0.004       | <0.05            |                   |               |                  |                |                  |            |
| 1.2         | 0.0005      | 0.31             |                   |               |                  |                |                  |            |
| 0.72        | 0.004       | <0.05            |                   |               |                  |                |                  |            |
| 1.4         | 0.003       | <0.05            |                   | 21            |                  |                | 2.3              | 160        |
| 1.6         | 0.003       | <0.05            |                   | 17            |                  |                | 1.4              | 140        |
| 1.2         | 0.002       | <0.05            |                   | 29            |                  |                | 2.7              | 170        |
| 0.77        | 0.005       | <0.05            |                   |               |                  |                |                  |            |
| 1.3         | 0.002       | 0.06             |                   |               |                  |                |                  |            |
| 2.7         | 0.003       | 0.06             |                   |               |                  |                |                  |            |
| 1.9         | 0.002       | <0.05            |                   |               |                  |                |                  |            |
| 1.7         | 0.003       | 0.07             |                   |               |                  |                |                  |            |
| 1.8         | 0.002       | <0.05            |                   |               |                  |                |                  |            |
|             | 0.001       | <0.05            | <0.05             |               |                  |                |                  |            |
| 0.78        | 0.002       | 0.24             |                   |               |                  |                |                  |            |
| 0.33        | 0.001       | <0.05            | <0.05             |               |                  |                |                  |            |
| 0.64        | 0.001       | <0.05            | <0.05             |               |                  |                |                  |            |
| 0.44        | 0.001       | <0.05            | <0.05             |               |                  |                |                  |            |
| 0.33        | 0.001       | <0.05            | <0.05             |               |                  |                |                  |            |
|             | 0.002       |                  | <0.05             |               |                  |                |                  |            |
|             | 0.004       |                  | <5                |               |                  |                |                  |            |
|             | 0.004       | <0.05            | <0.05             |               |                  |                |                  |            |
|             | 0.0005      |                  | 0.0025            |               |                  |                |                  |            |
|             | 0.003       |                  | 0.0025            |               |                  |                |                  |            |
|             | 0.002       |                  | 0.0025            |               |                  |                |                  |            |

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0.26  
0.6

0.022  
0.018

10  
13

3  
3

2  
2

1  
1

<0.01 <0.001 <0.0001 <0.001

Chloride  
(mg/L)

Hydroxide / Carbonate / Bicarbonate Total Alkalinity Aluminium Arsenic Cadmium Cobalt

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|       |    |    |    |      |               |        |
|-------|----|----|----|------|---------------|--------|
| 10 <1 | <1 | 15 | 15 | 0.83 | 0.004 <0.0001 | 0.001  |
| 10 <1 | <1 | 9  | 9  | 1.18 | 0.014 <0.0001 | 0.002  |
|       |    |    |    | 0.73 | 0.004 <0.0001 | 0.001  |
|       |    |    |    | 0.98 | 0.011 <0.0001 | 0.002  |
|       |    |    |    | 0.72 | 0.008 <0.0001 | <0.001 |
|       |    |    |    | 0.43 | 0.008 <0.0001 | <0.001 |

0.002

0.001 &lt;0.01

&lt;0.005

&lt;0.05

&lt;0.0001

Totals (mg/L)

Copper

Manganese Nickel

Selenium

Zinc

Boron

Iron

Mercury

0.060

2.710

1.200

1.500

0.070

0.450

0.080

&lt;0.05

0.280

&lt;0.05

0.150

0.050

&lt;0.05

0.060

&lt;0.05

&lt;0.05

0.034

0.020

0.065

0.016

0.029

0.010

0.003

0.034

0.009

0.024

0.013

0.013

0.009

0.026

0.068

0.018

0.022

0.019

0.008

0.063

0.036

0.033

0.049

0.033

0.022

|       |       |             |             |              |
|-------|-------|-------------|-------------|--------------|
| 0.036 | 0.061 | 0.006 <0.01 | 0.03 <0.05  | 0.72 <0.0001 |
| 0.014 | 0.046 | 0.003 <0.01 | 0.029 <0.05 | 1.54 <0.0001 |
| 0.027 | 0.081 | 0.005 <0.01 | 0.033 <0.05 | 0.62 <0.0001 |
| 0.015 | 0.052 | 0.003 <0.01 | 0.021 <0.05 | 1.24 <0.0001 |
| 0.01  |       | 0.003 <0.01 | 0.025 <0.05 | <0.0001      |
| 0.009 |       | 0.002 <0.01 | 0.009 <0.05 | <0.0001      |

| Date      | pH   | EC<br>(µS/cm) | <0.1               |                    | Turbidity<br>(NTU) | <0.01 <0.001        |                   |
|-----------|------|---------------|--------------------|--------------------|--------------------|---------------------|-------------------|
|           |      |               | Fluoride(<br>mg/L) | Sulphate<br>(mg/L) |                    | Aluminium<br>(mg/L) | Arsenic<br>(mg/L) |
| 2-Feb-94  | 3.82 | 1210          |                    |                    |                    |                     | 0.005             |
| 9-Mar-94  | 2.32 | 11200         |                    |                    |                    |                     | 27.8              |
| 23-Mar-94 | 2.25 | 13100         |                    |                    |                    |                     | 15                |
| 25-Mar-94 | 2.48 | 12200         |                    |                    |                    |                     | 17                |
| 19-Jan-95 | 3.32 | 2670          |                    | 1730               |                    |                     | 0.01              |
| 28-Jan-96 | 2.80 |               |                    | 950                |                    |                     | 0.05              |
| 5-Mar-96  | 3.80 |               |                    | 9600               |                    |                     | 0.5               |
| 6-Nov-96  | 6.20 |               |                    | 620                |                    |                     | 0.01              |
| 6-Dec-96  | 3.90 |               |                    | 340                |                    |                     | 0.01              |
| 31-Dec-96 | 4.00 |               |                    | 220                |                    |                     | 0.01              |
| 28-Feb-97 | 4.00 | 1000          |                    | 570                |                    |                     | 0.005             |
| 31-Dec-97 | 4.20 | 520           |                    | 220                |                    |                     | 0.0025            |
| 15-Jan-98 | 4.20 | 240           |                    | 75                 |                    |                     | 0.0025            |
| 31-Jan-98 | 4.30 | 420           |                    | 170                |                    |                     | 0.0025            |
| 15-Feb-98 | 5.20 | 190           |                    | 57                 |                    |                     | 0.0025            |
| 1-Mar-98  | 4.60 | 250           |                    | 75                 |                    |                     | 0.0025            |
| 15-Mar-98 | 4.80 | 190           |                    | 66                 |                    |                     | 0.0025            |
| 1-Jan-99  | 4.70 | 400           |                    | 140                |                    |                     | 0.0025            |
| 15-Jan-99 | 6.80 | 180           |                    | 49                 |                    |                     | 0.0025            |
| 15-Feb-99 | 4.40 | 570           |                    | 260                |                    |                     | 0.008             |
| 1-Mar-99  | 4.60 | 360           |                    | 140                |                    |                     | 0.0025            |
| 15-Mar-99 | 6.50 | 310           |                    | 120                |                    |                     | 0.005             |
| 15-Feb-00 | 6.80 | 170           |                    | 51                 |                    |                     | 0.01              |
| 29-Feb-00 | 6.60 | 190           |                    | 68                 |                    |                     | 0.006             |
| 15-Dec-00 | 6.40 | 200           |                    | 63                 |                    |                     | 0.009             |
| 15-Feb-01 | 6.70 | 110           |                    | 42                 |                    |                     | 0.015             |
| 1-Mar-01  | 7.20 | 110           |                    | 58                 |                    |                     | 0.014             |
| 15-Mar-01 | 7.30 | 100           |                    | 32                 |                    |                     | 0.016             |
| 1-Apr-01  | 6.90 | 140           |                    | 42                 |                    |                     | 0.015             |
| 14-Jan-05 | 6.70 | 230           |                    | 43                 |                    | 2.8                 | 0.035             |
| 26-Jan-06 | 6.90 | 270           |                    | 67                 |                    |                     | 0.02              |
| 27-Mar-06 | 7.20 | 130           |                    | 41                 |                    | 0.7                 | 0.014             |
| 19-Apr-06 | 9.10 | 140           |                    | 44                 |                    | 0.14                | 0.021             |
| 13-Jul-06 | 5.7  | 120           |                    | 57                 |                    | 0.78                | 0.007             |
| 13-Dec-06 | 6.1  | 240           |                    | 63                 |                    | 0.86                | 0.019             |
| 18-Jan-07 | 5.8  | 200           |                    | 70                 |                    | 18                  | 0.011             |
| 13-Feb-07 | 7.3  | 280           |                    | 69                 |                    | 0.27                | 0.029             |
| 15-Mar-07 | 7.0  | 130           |                    | 28                 |                    | 2.8                 | 0.016             |
| 14-Nov-07 | 6.3  | 280           |                    | 66                 |                    | 0.89                | 0.055             |
| 4-Jan-08  | 6.3  | 260           | 0.09               | 71                 |                    | 0.62                | 0.02              |
| 31-Jan-08 | 6.7  | 64            |                    | 37                 |                    | 0.23                | 0.032             |
| 5-Jan-09  | 6.7  | 140           | 0.27               | 35                 |                    | 0.53                | 0.014             |
| 6-Jan-09  | 6.6  | 140           | 0.27               | 36                 |                    | 0.55                | 0.014             |
| 7-Jan-09  | 6.8  | 140           | 0.27               | 42                 |                    | 0.61                | 0.015             |
| 8-Jan-09  | 6.8  | 140           | 0.27               | 43                 |                    | 0.6                 | 0.015             |
| 5-Feb-09  | 7.3  | 99            | 0.26               | 29                 |                    | 0.32                | 0.021             |
| 17-Feb-09 | 6.8  | 110           | 0.29               | 38                 | 8                  | 0.3                 | 0.012             |
| 26-Feb-09 | 6.3  | 99            | 0.22               | 57                 | 110                | 1.1                 | 0.011             |
| 12-Mar-09 | 6.7  | 84            | 0.24               | 24                 | 32                 | 0.12                | 0.024             |
| 24-Jan-10 | 6.19 | 301           | 0.4                | 96                 | 1.1                | 0.11                | 0.013             |
| 18-Feb-10 | 6.4  | 98            | <1.0               | 23                 | 11                 | 0.22                | 0.022             |

|            |      |     |      |     |       |      |        |
|------------|------|-----|------|-----|-------|------|--------|
| 19/Feb/10  | 6.48 | 96  | 0.2  | 24  | 8.5   | 0.2  | 0.023  |
| 20/Feb/10  | 6.5  | 97  | 0.2  | 23  | 9.3   | 0.3  | 0.023  |
| 21/Feb/10  | 6.5  | 98  | 0.2  | 24  | 7.6   | 0.29 | 0.022  |
| 22/Feb/10  | 6.52 | 98  | 0.2  | 24  | 6.8   | 0.19 | 0.022  |
| 28/03/2010 | 6.85 | 218 | 0.4  | 60  | 14    | 0.01 | 0.013  |
| 23/02/2011 | 7.11 | 70  | 0.2  | 18  | 18.7  | 0.39 | 0.007  |
| 24/02/2011 | 7.29 | 89  | 0.2  | 25  | 22.8  | 0.43 | 0.008  |
| 25/02/2011 | 7.15 | 88  | 0.2  | 23  | 20.6  | 0.71 | <0.001 |
| 26/02/2011 | 6.99 | 94  | 0.2  | 23  | 21.4  | 0.24 | 0.004  |
| 27/02/2011 | 7.07 | 80  | 0.2  | 19  | 17.8  | 0.41 | 0.006  |
| 28/02/2011 | 7    | 97  | 0.2  | 24  | 20.8  | 0.41 | 0.007  |
| 01/03/2011 | 7.04 | 94  | 0.2  | 22  | 19.7  | 0.42 | 0.007  |
| 30/03/2011 | 6.83 | 105 | 0.2  | 31  | 22    | 0.28 | 0.011  |
| 17/Jan/12  | 6.29 | 217 | 0.3  | 71  | 13    | 0.61 | 0.028  |
| 18/Jan/12  | 5.03 | 226 | 0.2  | 80  | 192   | 2.26 | 0.004  |
| 19/Jan/12  | 5.57 | 213 | 0.2  | 75  | 133   | 0.86 | 0.008  |
| 20/Jan/12  | 4.57 | 240 | 0.2  | 85  | 173   | 1.24 | 0.003  |
| 21/Jan/12  | 4.66 | 234 | 0.3  | 85  | 110   | 0.35 | 0.006  |
| 22/Jan/12  | 5.32 | 123 | 0.2  | 44  | 226   | 0.56 | 0.001  |
| 23/Jan/12  | 5.84 | 127 | 0.3  | 44  | 233   | 0.49 | <0.001 |
| 10/03/2012 | 6.54 | 207 | 0.2  | 73  | 50    | 0.49 | 0.003  |
| 25/01/2013 | 5.39 | 107 | 0.1  | 31  | 56    | 0.56 | 0.006  |
| 26/01/2013 | 5.39 | 107 | 0.1  | 32  | 87    | 0.55 | 0.006  |
| 27/01/2013 | 5.39 | 191 | 0.2  | 60  | 60    | 0.61 | 0.005  |
| 07/02/2014 | 6    | 150 | 0.3  | 58  | 186   | 0.57 | 0.003  |
| 01/03/2014 | 6.59 | 44  | <0.1 | 10  | 50    | 2.31 | 0.003  |
| 25/01/2015 | 6.44 | 126 | 0.1  | 6   | 13.5  | 0.44 | 0.001  |
| 28/02/2015 | 7.44 | 86  | 0.2  | 14  | 14    | 0.37 | 0.011  |
| 29/01/2016 | 6.83 | 189 | 0.4  | 36  | 41.6  | 1.71 | 0.071  |
| 19/02/2016 | 6.72 | 521 | 0.6  | 182 | 12100 | 0.05 | 0.004  |

|                   |                   |                    |                  |                  |                   |                  |                    |                |
|-------------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|----------------|
| <0.05             | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |
| Filterable (mg/L) |                   |                    |                  |                  |                   |                  |                    |                |
| Boron<br>(mg/L)   | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) | Zinc<br>(mg/L) |
|                   | 0.015             |                    |                  | 1.3              |                   |                  |                    | 2.610          |
|                   | 0.52              |                    |                  | 61.2             |                   |                  |                    | 49.400         |
|                   | 0.55              |                    |                  | 71               |                   |                  |                    | 50.500         |
|                   | 0.47              |                    |                  | 59               |                   |                  |                    | 47.200         |
|                   | 0.06              |                    |                  | 2.65             |                   |                  |                    | 5.750          |
|                   | 0.024             |                    |                  | 2.06             |                   | 0.66             |                    | 2.200          |
|                   | 0.18              |                    |                  | 22               |                   | 7.2              |                    | 19.000         |
|                   | 0.0045            |                    |                  | 0.025            |                   | 0.07             |                    | 0.025          |
|                   | 0.0051            |                    |                  | 0.31             |                   | 0.27             |                    | 0.700          |
|                   | 0.0076            |                    |                  | 0.13             |                   | 0.14             |                    | 0.440          |
|                   | 0.01              |                    |                  | 0.45             |                   | 0.29             |                    | 1.300          |
|                   | 0.0042            |                    |                  | 0.09             |                   | 0.1              |                    | 0.690          |
|                   | 0.0028            |                    |                  | 0.1              |                   | 0.06             |                    | 0.620          |
|                   | 0.0023            |                    |                  | 0.09             |                   | 0.0025           |                    | 0.560          |
|                   | 0.0014            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.250          |
|                   | 0.0016            |                    |                  | 0.05             |                   | 0.05             |                    | 0.450          |
|                   | 0.0009            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.400          |
|                   | 0.0018            |                    |                  | 0.025            |                   | 0.08             |                    | 0.310          |
|                   | 0.0003            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.024          |
|                   | 0.0045            |                    |                  | 0.2              |                   | 0.16             |                    | 0.980          |
|                   | 0.0044            |                    |                  | 0.13             |                   | 0.11             |                    | 0.670          |
|                   | 0.0005            |                    |                  | 0.05             |                   | 0.0025           |                    | 0.120          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.031          |
|                   | 0.0002            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.031          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.046          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.033          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.027          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.027          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.0025           |                    | 0.016          |
|                   | 0.0001            |                    |                  | 0.02             |                   | 0.0025           |                    | 0.038          |
|                   | 0.0002            |                    |                  | 0.01             |                   | 0.0025           |                    | 0.050          |
|                   | 0.0001            |                    | 0.025            | 0.02             |                   | 0.0025           |                    | 0.067          |
|                   | 0.0001            |                    | 0.025            | 0.005            |                   | 0.0025           |                    | 0.028          |
|                   | 0.0002            |                    | 0.025            | 0.01             |                   | 0.0025           |                    | 0.070          |
|                   | 0.0002            |                    | 0.025            | 0.02             |                   | 0.0025           |                    | 0.049          |
|                   | 0.0002            |                    | 0.025            | 0.01             |                   | 0.0025           |                    | 0.06           |
|                   | 0.0001            |                    | 0.025            | 0.009            |                   | 0.004            |                    | 0.016          |
|                   | 0.0001            |                    | 0.025            | 0.005            |                   | 0.0025           |                    | 0.022          |
|                   | 0.0001            |                    | 0.025            | 0.022            |                   | 0.004            |                    | 0.058          |
|                   | 0.00025           |                    | 0.0025           | 0.011            |                   | 0.009            |                    | 0.04           |
|                   | 0.0001            |                    | 0.0025           | 0.013            |                   | 0.005            |                    | 0.067          |
| 0.015             | <0.0001           | <0.001             | <0.005           | 0.011            | <0.0002           | 0.004            | <0.003             | 0.045          |
| 0.015             | <0.0001           | <0.001             | <0.005           | 0.011            | <0.0002           | 0.005            | <0.003             | 0.032          |
| 0.015             | <0.0001           | <0.001             | <0.005           | 0.011            | <0.0002           | 0.004            | <0.003             | 0.036          |
| 0.014             | <0.0001           | <0.001             | <0.005           | 0.012            | <0.0002           | 0.004            | <0.003             | 0.04           |
| 0.011             | <0.0001           | <0.001             | <0.005           | 0.01             | <0.0002           | 0.004            | <0.003             | 0.037          |
| 0.01              | 0.0001            | <0.001             | <0.005           | 0.01             | <0.0002           | 0.007            | <0.003             | 0.056          |
| <0.002            | <0.0001           | 0.001              | <0.005           | 0.008            | 0.0003            | 0.004            | <0.003             | 0.043          |
| 0.015             | <0.0001           | 0.002              | <0.005           | 0.006            | <0.0002           | 0.002            | <0.003             | 0.027          |
| <0.05             | <0.0001           | <0.010             | 0.002            | 0.012            | <0.0001           | 0.006            | <0.01              | 0.032          |
| <0.05             | 0.0002            | <0.010             | <0.001           | 0.008            | <0.0001           | 0.003            | <0.01              | 0.034          |

|       |         |        |        |        |         |        |       |        |
|-------|---------|--------|--------|--------|---------|--------|-------|--------|
| <0.05 | 0.0001  | <0.010 | <0.001 | 0.008  | <0.0001 | 0.002  | <0.01 | 0.034  |
| <0.05 | 0.0002  | <0.010 | <0.001 | 0.008  | <0.0001 | 0.011  | <0.01 | 0.034  |
| <0.05 | 0.0001  | <0.010 | <0.001 | 0.008  | <0.0001 | 0.002  | <0.01 | 0.042  |
| <0.05 | 0.0001  | <0.010 | <0.001 | 0.008  | <0.0001 | 0.003  | <0.01 | 0.036  |
| <0.05 | <0.0001 | <0.01  | <0.001 | 0.006  | <0.0001 | 0.002  | <0.01 | 0.01   |
| <0.05 | <0.0001 | <0.001 | 0.002  | 0.006  | <0.0001 | 0.003  | <0.01 | 0.016  |
| <0.05 | <0.0001 | <0.001 | 0.002  | 0.006  | <0.0001 | 0.003  | <0.01 | 0.016  |
| <0.05 | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01 | <0.005 |
| <0.05 | <0.0001 | <0.001 | 0.002  | 0.008  | <0.0001 | 0.002  | <0.01 | 0.011  |
| <0.05 | <0.0001 | <0.001 | 0.002  | 0.007  | <0.0001 | 0.002  | <0.01 | 0.014  |
| <0.05 | <0.0001 | <0.001 | 0.002  | 0.006  | <0.0001 | 0.002  | <0.01 | 0.016  |
| <0.05 | <0.0001 | <0.001 | 0.002  | 0.006  | <0.0001 | 0.002  | <0.01 | 0.016  |
| <0.05 | <0.0001 | <0.001 | 0.003  | 0.006  | <0.0001 | 0.005  | <0.01 | 0.043  |
| <0.05 | <0.0001 | <0.001 | 0.013  | 0.006  | <0.0001 | 0.008  | <0.01 | 0.034  |
| <0.05 | 0.0017  | 0.001  | 0.098  | 0.01   | <0.0001 | 0.034  | <0.01 | 0.496  |
| <0.05 | 0.0007  | <0.001 | 0.043  | 0.006  | <0.0001 | 0.017  | <0.01 | 0.211  |
| <0.05 | 0.0019  | <0.001 | 0.1    | 0.013  | <0.0001 | 0.039  | <0.01 | 0.502  |
| <0.05 | 0.0013  | <0.001 | 0.067  | 0.011  | <0.0001 | 0.029  | <0.01 | 0.333  |
| <0.05 | 0.0003  | <0.001 | 0.018  | 0.009  | <0.0001 | 0.01   | <0.01 | 0.079  |
| <0.05 | 0.0003  | <0.001 | 0.017  | 0.008  | <0.0001 | 0.01   | <0.01 | 0.076  |
| <0.05 | 0.0002  | <0.001 | <0.001 | 0.007  | <0.0001 | 0.008  | <0.01 | 0.099  |
| <0.05 | 0.0005  | 0.001  | 0.01   | 0.007  | <0.0001 | 0.009  | <0.01 | 0.143  |
| <0.05 | 0.0004  | <0.001 | 0.01   | 0.007  | <0.0001 | 0.009  | <0.01 | 0.14   |
| <0.05 | 0.0006  | 0.001  | 0.024  | 0.012  | <0.0001 | 0.013  | <0.01 | 0.177  |
| <0.05 | 0.0002  | <0.001 | 0.009  | 0.007  | <0.0001 | 0.008  |       | 0.064  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.002  | <0.0001 | <0.001 | <0.01 | <0.005 |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.002  | <0.0001 | <0.001 | <0.01 | 0.013  |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.002  | <0.0001 | <0.001 | <0.01 | <0.005 |
| <0.05 | <0.0001 | <0.001 | <0.001 | 0.017  | 0.0001  | 0.004  |       | 0.01   |
| <0.05 | <0.0001 | <0.001 | 0.001  | 0.006  | <0.0001 | 0.003  | <0.01 | <0.005 |

| Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Molybdenum (mg/L) | Sodium (mg/L) | Potassium (mg/L) | Calcium (mg/L) | Magnesium (mg/L) |
|-------------|-------------|------------------|-------------------|---------------|------------------|----------------|------------------|
| 1.9         | 0.010       | 6.15             |                   |               |                  |                |                  |
| 2890        | 0.050       | 80.1             |                   |               |                  |                |                  |
| 1770        | 0.050       | 90.6             |                   |               |                  |                |                  |
| 1850        | 0.050       | 69.1             |                   |               |                  |                |                  |
| 0.7         | 0.005       | 23.1             |                   |               |                  |                | 121              |
| 23          | 0.003       |                  |                   |               |                  |                |                  |
| 197         | 0.003       |                  |                   |               |                  |                |                  |
| 0.025       | 0.003       | 1.7              |                   |               |                  |                |                  |
| 0.6         | 0.003       | 3.1              |                   |               |                  |                |                  |
| 0.025       | 0.003       | 2                |                   |               |                  |                |                  |
| 0.12        | 0.002       | 4.8              |                   |               |                  |                |                  |
| 0.025       | 0.003       | 2                |                   |               |                  |                |                  |
| 0.12        | 0.003       | 0.72             |                   |               |                  |                |                  |
| 0.12        | 0.003       | 0.88             |                   |               |                  |                |                  |
| 0.19        | 0.003       | 0.61             |                   |               |                  |                |                  |
| 0.12        | 0.003       | 0.78             |                   |               |                  |                |                  |
| 0.08        | 0.003       | 0.33             |                   |               |                  |                |                  |
| 0.13        | 0.001       | 1.3              |                   |               |                  |                |                  |
| 0.14        | 0.001       | 0.36             |                   |               |                  |                |                  |
| 0.63        | 0.001       | 3.1              |                   |               |                  |                |                  |
| 0.23        | 0.003       | 1.7              |                   |               |                  |                |                  |
| 0.19        | 0.003       | 0.82             |                   |               |                  |                |                  |
| 0.76        | 0.003       | 0.19             |                   | 21            |                  | 3.2            | 2.5              |
| 0.51        | 0.003       | 0.23             |                   | 25            |                  | 4.9            | 3.3              |
| 1.8         | 0.005       | 0.06             |                   |               |                  |                |                  |
| 0.55        | 0.004       | 0.06             |                   |               |                  |                |                  |
| 0.71        | 0.003       | 0.025            |                   |               |                  |                |                  |
| 1           | 0.003       | 0.025            |                   |               |                  |                |                  |
| 1.2         | 0.003       | 0.025            |                   |               |                  |                |                  |
|             | 0.003       | 0.05             | 0.025             |               |                  |                |                  |
| 0.78        | 0.002       | 0.14             |                   |               |                  |                |                  |
| 0.33        | 0.003       | 0.08             | 0.025             |               |                  |                |                  |
| 0.27        | 0.003       | 0.025            | 0.025             |               |                  |                |                  |
|             | 0.003       |                  | 0.025             |               |                  |                |                  |
|             | 0.004       |                  | 0.025             |               |                  |                |                  |
|             | 0.003       |                  | 0.025             |               |                  |                |                  |
|             | 0.002       |                  | <5                |               |                  |                |                  |
|             | 0.003       | 0.025            | 0.025             |               |                  |                |                  |
|             | 0.007       |                  | 0.025             |               |                  |                |                  |
|             | 0.0025      |                  | 0.0025            |               |                  |                |                  |
|             | 0.001       |                  | 0.0025            |               |                  |                |                  |

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0.22  
1.17

0.205  
0.003

22  
6

3  
1 <1

2  
<1

2

<0.01 <0.001

TDS (mg/L)

Chloride  
(mg/L)

Hydroxide Al Carbonate A Bicarbonate Total Alkalini Aluminium Arsenic

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|      |    |   |   |      |       |
|------|----|---|---|------|-------|
| 5 <1 | <1 | 5 | 5 | 6.7  | 0.01  |
| 2 <1 | <1 | 5 | 5 | 2.4  | 0.009 |
|      |    |   |   | 5.7  | 0.012 |
|      |    |   |   | 2.9  | 0.008 |
|      |    |   |   | 1.06 | 0.096 |
|      |    |   |   | 112  | 0.255 |

<0.0001   <0.001   0.002   0.001 <0.01   <0.005   <0.05

Totals (mg/L)

Cadmium   Cobalt   Copper   Manganes Nickel   Selenium   Zinc   Boron   Iron

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|         |       |       |       |             |             |      |
|---------|-------|-------|-------|-------------|-------------|------|
| 0.0004  | 0.012 | 0.016 | 0.262 | 0.009 <0.01 | 0.086 <0.05 | 0.79 |
| <0.0001 | 0.001 | 0.009 | 0.026 | 0.002 <0.01 | 0.02 <0.05  | 2.47 |
| 0.0002  | 0.01  | 0.019 | 0.062 | 0.011 <0.01 | 0.076 <0.05 | 1.12 |
| <0.0001 | 0.001 | 0.012 | 0.031 | 0.002 <0.01 | 0.025 <0.05 | 1.74 |
| <0.0001 | 0.002 | 0.021 |       | 0.006 <0.01 | 0.025 <0.05 |      |
| 0.002   | 0.159 | 0.577 |       | 0.124 <0.01 | 0.81 <0.05  |      |

<0.0001



Mercury

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<0.0001  
<0.0001  
<0.0001  
<0.0001  
0.0006  
0.0017

| Date       | pH   | <0.1          |                    | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | <0.01 <0.001          |                   |
|------------|------|---------------|--------------------|--------------------|--------------------|-----------------------|-------------------|
|            |      | EC<br>(µS/cm) | Fluoride(<br>mg/L) |                    |                    | Aluminium<br>m (mg/L) | Arsenic<br>(mg/L) |
| 28-Jan-96  | 6.60 |               |                    | 35                 |                    |                       | 0.01              |
| 5-Mar-96   | 6.50 |               |                    | 53                 |                    |                       | 0.01              |
| 6-Dec-96   | 6.00 |               |                    | 20                 |                    |                       | 0.01              |
| 31-Dec-96  | 6.50 |               |                    | 36                 |                    |                       | 0.01              |
| 28-Feb-97  | 6.40 | 120           |                    | 29                 |                    |                       | 0.005             |
| 31-Dec-97  | 6.60 | 150           |                    | 40                 |                    |                       | 0.0025            |
| 15-Jan-98  | 6.30 | 78            |                    | 15                 |                    |                       | 0.007             |
| 31-Jan-98  | 8.70 | 92            |                    | 16                 |                    |                       | 0.0025            |
| 15-Feb-98  | 7.10 | 100           |                    | 22                 |                    |                       | 0.0025            |
| 1-Mar-98   | 6.60 | 90            |                    | 26                 |                    |                       | 0.0025            |
| 15-Mar-98  | 7.80 | 69            |                    | 13                 |                    |                       | 0.0025            |
| 1-Apr-98   | 6.90 | 100           |                    | 21                 |                    |                       | 0.0025            |
| 1-Jan-99   | 6.50 | 61            |                    | 14                 |                    |                       | 0.0025            |
| 15-Jan-99  | 6.70 | 57            |                    | 15                 |                    |                       | 0.0025            |
| 15-Feb-99  | 7.20 | 170           |                    | 36                 |                    |                       | 0.023             |
| 1-Mar-99   | 6.90 | 100           |                    | 27                 |                    |                       | 0.0025            |
| 15-Feb-00  | 6.70 | 240           |                    | 76                 |                    |                       | 0.0025            |
| 29-Feb-00  | 6.90 | 120           |                    | 36                 |                    |                       | 0.0025            |
| 15-Dec-00  | 6.40 | 66            |                    | 22                 |                    |                       | 0.0025            |
| 1-Mar-01   | 7.60 | 100           |                    | 21                 |                    |                       | 0.009             |
| 15-Mar-01  | 7.50 | 84            |                    | 21                 |                    |                       | 0.012             |
| 14-Jan-05  | 6.30 | 140           |                    | 27                 |                    | 0.13                  | 0.008             |
| 26-Jan-06  | 7.10 | 110           |                    | 22                 |                    |                       | 0.012             |
| 14-Feb-06  | 7.50 | 140           |                    | 13                 |                    | 0.22                  | 0.0025            |
| 6-Mar-06   | 7.20 | 430           |                    | 24                 |                    | 3.5                   | 0.069             |
| 27-Mar-06  | 7.10 | 80            |                    | 16                 |                    | 0.35                  | 0.0025            |
| 19-Apr-06  | 7.30 | 79            |                    | 13                 |                    | 0.1                   | 0.01              |
| 17-May-06  | 7.20 | 110           |                    | 15                 |                    | 0.21                  | 0.005             |
| 13-Jul-06  | 6.20 | 450           |                    | 140                |                    | 0.89                  | 0.005             |
| 18-Jan-07  | 6.50 | 400           |                    | 120                |                    | 1.4                   | 0.007             |
| 13-Feb-07  | 7.20 | 170           |                    | 38                 |                    | 0.29                  | 0.012             |
| 15-Mar-07  | 6.40 | 72            |                    |                    |                    | 0.3                   | 0.0025            |
| 5-Jan-09   | 6.4  | 64            | 0.2                | 14                 |                    | 0.29                  | 0.006             |
| 6-Jan-09   | 6.4  | 64            | 0.21               | 14                 |                    | 0.31                  | 0.006             |
| 7-Jan-09   | 6.6  | 65            | 0.22               | 15                 |                    | 0.26                  | 0.006             |
| 8-Jan-09   | 6.7  | 63            | 0.23               | 15                 |                    | 0.23                  | 0.007             |
| 5-Feb-09   | 6.9  | 59            | 0.19               | 12                 |                    | <0.05                 | 0.015             |
| 17-Feb-09  | 6.8  | 48            | 0.14               | 10                 | 9                  | 0.19                  | 0.007             |
| 26-Feb-09  | 6.9  | 47            | 0.13               | 11                 | 13                 | 0.22                  | 0.007             |
| 12-Mar-09  | 6.8  | 60            | 0.14               | 17                 | 16                 | 0.47                  | 0.006             |
| 24-Jan-10  | 8    | 175           | 0.5                | 14                 | 160                | 0.22                  | 0.025             |
| 23/02/2011 | 7.09 | 62            | 0.2                | 11                 | 13.9               | 0.13                  | 0.002             |
| 24/02/2011 | 7.26 | 38            | <0.1               | 10                 | 12.1               | 0.13                  | 0.002             |
| 25/02/2011 | 7.11 | 39            | <0.1               | 10                 | 12.7               | 0.07                  | 0.002             |
| 26/02/2011 | 7.18 | 42            | <0.1               | 10                 | 12.2               | 0.13                  | 0.003             |
| 27/02/2011 | 6.87 | 39            | <0.1               | 10                 | 12                 | 0.13                  | 0.003             |
| 28/02/2011 | 7.2  | 39            | <0.1               | 10                 | 12.1               | 0.15                  | 0.002             |
| 01/03/2011 | 7.16 | 53            | 0.1                | 9                  | 10                 | 0.16                  | 0.003             |
| 30/03/2011 | 7.2  | 64            | 0.2                | 12                 | 30                 | 0.17                  | 0.009             |
| 17/01/2012 | 6.07 | 274           | 0.3                | 84                 | 461                | 1.26                  | 0.008             |
| 18/01/2012 | 6.26 | 215           | 0.2                | 64                 | 344                | 1.36                  | 0.005             |
| 19/01/2012 | 6.3  | 227           | 0.3                | 67                 | 364                | 1.73                  | 0.007             |

|            |      |          |        |    |      |      |        |
|------------|------|----------|--------|----|------|------|--------|
| 20/01/2012 | 6.32 | 222      | 0.3    | 66 | 350  | 2.44 | 0.006  |
| 21/01/2012 | 6.31 | 227      | 0.3    | 69 | 348  | 1.97 | 0.008  |
| 22/01/2012 | 6.44 | 188      | 0.3    | 55 | 383  | 0.9  | 0.005  |
| 23/01/2012 | 6.5  | 174      | 0.3    | 49 | 322  | 0.74 | 0.004  |
| 10/03/2012 | 6.98 | 130      | 0.2 <1 |    | 123  | 1.38 | <0.001 |
| 25/01/2013 | 6.23 | 136      | 0.2    | 37 | 159  | 0.73 | 0.003  |
| 26/01/2013 | 6.18 | 135      | 0.2    | 37 | 122  | 0.78 | 0.003  |
| 27/01/2013 | 6.21 | 141      | 0.2    | 38 | 92   | 0.76 | 0.003  |
| 31/01/2013 | 6.68 | 179      | 0.3    | 50 | 83   | 1.25 | 0.005  |
| 07/02/2014 | 5.91 | 97       | 0.1    | 24 | 273  | 0.51 | 0.002  |
| 01/03/2014 | 6.7  | 53 <0.1  |        | 10 | 53   | 0.35 | 0.002  |
| 25/01/2015 | 6.66 | 126 <0.1 |        | 6  | 12.2 | 0.46 | 0.002  |
| 28/02/2015 | 7.41 | 86       | 0.2    | 13 | 19.1 | 0.41 | 0.01   |
| 29/01/2016 | 6.72 | 110      | 0.2    | 17 | 30.3 | 1.44 | 0.009  |
| 19/02/2016 | 6.54 | 147      | 0.3    | 23 | 38.1 | 1.4  | 0.02   |

|                   |                   |                    |                  |                  |                   |                  |                    |                |
|-------------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|----------------|
| <0.05             | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |
| Filterable (mg/L) |                   |                    |                  |                  |                   |                  |                    |                |
| Boron<br>(mg/L)   | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) | Zinc<br>(mg/L) |
|                   | 0.0006            |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.0008            |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.00025           |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.014          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.017          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.017          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.025          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.007          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.0025         |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.02           |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.008          |
|                   | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.008          |
|                   | 0.0001            |                    |                  | 0.005            |                   | 0.025            |                    | 0.018          |
|                   | 0.0001            |                    |                  | 0.005            |                   | 0.025            |                    | 0.023          |
|                   | 0.0001            |                    |                  | 0.01             |                   | 0.025            |                    | 0.007          |
|                   | 0.0001            |                    |                  | 0.01             |                   | 0.025            |                    | 0.033          |
|                   | 0.0001            |                    |                  | 0.02             |                   | 0.025            |                    | 0.012          |
|                   | 0.0001            |                    |                  | 0.005            |                   | 0.025            |                    | 0.011          |
|                   | 0.0001            |                    |                  | 0.005            |                   | 0.025            |                    | 0.005          |
|                   | 0.0003            |                    | 0.025            | 0.02             |                   | 0.025            |                    | 0.17           |
|                   | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.034          |
|                   | 0.0001            |                    | 0.025            | 0.007            |                   | 0.002            |                    | 0.019          |
|                   | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.019          |
| 0.013             | <0.0001           | <0.001             | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             | 0.006          |
| 0.012             | <0.0001           | <0.001             | <0.005           | 0.003            | <0.0002           | <0.002           | <0.003             | 0.013          |
| 0.009             | <0.0001           | <0.001             | <0.005           | 0.003            | <0.0002           | <0.002           | <0.003             | 0.019          |
| 0.01              | <0.0001           | <0.001             | <0.005           | 0.003            | <0.0002           | <0.002           | <0.003             | 0.015          |
| 0.013             | <0.0001           | <0.001             | <0.005           | 0.003            | <0.0002           | <0.002           | <0.003             | 0.009          |
| 0.009             | <0.0001           | <0.001             | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             | 0.022          |
| <0.002            | <0.0001           | <0.001             | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             | 0.01           |
| 0.017             | <0.0001           | 0.002              | <0.005           | 0.003            | <0.0002           | <0.002           | <0.003             | 0.013          |
| <0.05             | <0.0001           | <0.010             | <0.001           | 0.011            | <0.0001           | 0.004            | <0.01              | 0.007          |
| <0.05             | <0.0001           | 0.002              | <0.001           | 0.035            | <0.0001           | <0.001           | <0.01              | 0.006          |
| <0.05             | <0.0001           | 0.002              | <0.001           | 0.041            | <0.0001           | <0.001           | <0.01              | 0.006          |
| <0.05             | <0.0001           | 0.002              | <0.001           | 0.048            | <0.0001           | <0.001           | <0.01              | 0.007          |
| <0.05             | <0.0001           | 0.002              | <0.001           | 0.025            | <0.0001           | <0.001           | <0.01              | <0.005         |
| <0.05             | <0.0001           | 0.002              | <0.001           | 0.035            | <0.0001           | <0.001           | <0.01              | 0.006          |
| <0.05             | <0.0001           | 0.002              | <0.001           | 0.039            | <0.0001           | <0.001           | <0.01              | 0.006          |
| <0.05             | <0.0001           | <0.001             | <0.001           | 0.024            | <0.0001           | <0.001           | <0.01              | <0.005         |
| <0.05             | <0.0001           | <0.001             | <0.001           | 0.001            | <0.0001           | <0.001           | <0.01              | <0.005         |
| <0.05             | <0.0001           | <0.001             | 0.007            | 0.007            | <0.0001           | 0.009            | <0.01              | 0.032          |
| <0.05             | 0.0001            | <0.001             | 0.008            | 0.005            | <0.0001           | 0.008            | <0.01              | 0.037          |
| <0.05             | <0.0001           | <0.001             | 0.008            | 0.006            | <0.0001           | 0.008            | <0.01              | 0.036          |

|       |         |              |        |               |              |        |
|-------|---------|--------------|--------|---------------|--------------|--------|
| <0.05 | <0.0001 | <0.001       | 0.007  | 0.006 <0.0001 | 0.008 <0.01  | 0.038  |
| <0.05 | <0.0001 | <0.001       | 0.002  | 0.007 <0.0001 | 0.008 <0.01  | 0.014  |
| <0.05 | <0.0001 | <0.001       | 0.005  | 0.005 <0.0001 | 0.007 <0.01  | 0.025  |
| <0.05 | <0.0001 | <0.001       | 0.004  | 0.004 <0.0001 | 0.006 <0.01  | 0.02   |
| 0.1   | <0.0001 | 0.001 <0.001 |        | 0.003 <0.0001 | 0.002 <0.01  | 0.007  |
| <0.05 | 0.0001  | 0.003 <0.001 |        | 0.004 <0.0001 | 0.004 <0.01  | 0.036  |
| <0.05 | <0.0001 | 0.002 <0.001 |        | 0.004 <0.0001 | 0.004 <0.01  | 0.035  |
| <0.05 | <0.0001 | 0.003 <0.001 |        | 0.004 <0.0001 | 0.004 <0.01  | 0.032  |
| <0.05 | <0.0001 | 0.003 <0.001 |        | 0.006 <0.0001 | 0.005 <0.01  | 0.021  |
| <0.05 | <0.0001 | <0.001       | 0.001  | 0.003 <0.0001 | 0.002        | 0.014  |
| <0.05 | <0.0001 | <0.001       | <0.001 | 0.002 <0.0001 | <0.001 <0.01 | 0.006  |
| <0.05 | <0.0001 | <0.001       | <0.001 | 0.002 <0.0001 | <0.001 <0.01 | 0.014  |
| <0.05 | <0.0001 | <0.001       | <0.001 | 0.002 <0.0001 | <0.001 <0.01 | <0.005 |
| <0.05 | <0.0001 | <0.001       | <0.001 | 0.004 <0.0001 | 0.002        | 0.006  |
| <0.05 | <0.0001 | <0.001       | 0.002  | 0.007 <0.0001 | 0.005 <0.01  | 0.013  |

| Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Molybdenum (mg/L) | Sodium (mg/L) | Potassium (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | TDS (mg/L) |
|-------------|-------------|------------------|-------------------|---------------|------------------|----------------|------------------|------------|
| 0.84        | 0.0025      |                  |                   |               |                  |                |                  |            |
| 1.53        | 0.05        |                  |                   |               |                  |                |                  |            |
| 6.5         | 0.006       | 0.025            |                   |               |                  |                |                  |            |
| 1.5         | 0.006       | 0.09             |                   |               |                  |                |                  |            |
| 0.2         | 0.001       | 0.025            |                   |               |                  |                |                  |            |
| 0.92        | 0.004       | 0.025            |                   |               |                  |                |                  |            |
| 0.94        | 0.001       | 0.025            |                   |               |                  |                |                  |            |
| 2.2         | 0.001       | 0.025            |                   |               |                  |                |                  |            |
| 2.6         | 0.002       | 0.025            |                   |               |                  |                |                  |            |
| 1.3         | 0.001       | 0.025            |                   |               |                  |                |                  |            |
| 0.88        | 0.001       | 0.025            |                   |               |                  |                |                  |            |
| 0.31        | 0.001       | 0.025            |                   |               |                  |                |                  |            |
| 0.69        | 0.003       | 0.025            |                   |               |                  |                |                  |            |
| 0.49        | 0.003       | 0.025            |                   |               |                  |                |                  |            |
| 4.6         | 0.001       | 0.025            |                   |               |                  |                |                  |            |
| 1.6         | 0.002       | 0.025            |                   |               |                  |                |                  |            |
| 0.26        | 0.001       | 0.28             |                   | 26            |                  | 5.5            | 4.9              | 240        |
| 0.95        | 0.001       | 0.025            |                   | 15            |                  | 2.3            | 2                | 130        |
| 0.63        | 0.008       | 0.025            |                   |               |                  |                |                  |            |
| 1.9         | 0.002       | 0.025            |                   |               |                  |                |                  |            |
| 3.2         | 0.001       | 0.025            |                   |               |                  |                |                  |            |
|             | 0.001       | 0.025            | 0.025             |               |                  |                |                  |            |
| 0.79        | 0.002       | 0.025            |                   |               |                  |                |                  |            |
| 0.73        | 0.001       | 0.025            | 0.025             |               |                  |                |                  |            |
| 5.2         | 0.004       | 1.9              | 0.025             |               |                  |                |                  |            |
| 1.1         | 0.001       | 0.025            | 0.025             |               |                  |                |                  |            |
| 2.3         | 0.001       | 0.025            | 0.025             |               |                  |                |                  |            |
| 1.2         | 0.001       | 0.025            | 0.025             |               |                  |                |                  |            |
|             | 0.002       |                  | 0.025             |               |                  |                |                  |            |
|             | 0.004       |                  | 0.025             |               |                  |                |                  |            |
|             | 0.002       |                  | 2.5               |               |                  |                |                  |            |
|             | 0.001       | 0.025            | 0.025             |               |                  |                |                  |            |

0.24  
0.35

0.037  
0.004

10  
6

5 <1  
2 <1

<1  
<1

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<0.01 <0.001 <0.0001 <0.001

Chloride  
(mg/L)

Hydroxide / Carbonate / Bicarbonate Total Alkali Aluminium Arsenic Cadmium Cobalt

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|      |    |   |   |      |       |         |       |
|------|----|---|---|------|-------|---------|-------|
| 5 <1 | <1 | 5 | 5 | 1    | 0.005 | 0.0001  | 0.004 |
| 2 <1 | <1 | 7 | 7 | 2.29 | 0.009 | <0.0001 | 0.001 |
|      |    |   |   | 0.73 | 0.013 | <0.0001 | 0.001 |
|      |    |   |   | 1.11 | 0.026 | <0.0001 | 0.009 |

|               |          |        |          |       |       |         |
|---------------|----------|--------|----------|-------|-------|---------|
| 0.002         | 0.001    | <0.01  | <0.005   | <0.05 |       | <0.0001 |
| Totals (mg/L) |          |        |          |       |       |         |
| Copper        | Manganes | Nickel | Selenium | Zinc  | Boron | Iron    |
|               |          |        |          |       |       | Mercury |

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RTI Act 2009

|       |       |             |             |              |
|-------|-------|-------------|-------------|--------------|
| 0.009 | 0.085 | 0.004 <0.01 | 0.046 <0.05 | 1.52 <0.0001 |
| 0.008 | 0.027 | 0.002 <0.01 | 0.022 <0.05 | 2.37 <0.0001 |
| 0.006 |       | 0.003 <0.01 | 0.019 <0.05 | <0.0001      |
| 0.009 |       | 0.005 <0.01 | 0.038 <0.05 | <0.0001      |

| Date       | pH   | <0.1          |                    | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | <0.01               |
|------------|------|---------------|--------------------|--------------------|--------------------|---------------------|
|            |      | EC<br>(µS/cm) | Fluoride(<br>mg/L) |                    |                    | Aluminium<br>(mg/L) |
| 18-Jan-07  | 5.5  | 22            |                    | 5                  |                    | 0.16                |
| 15-Mar-07  | 6.0  | 17            |                    | 5                  |                    | 0.19                |
| 17-Apr-08  | 6.0  | 97            |                    | 23                 |                    | 0.62                |
| 05-Jan-09  | 5.5  | 52.0          | 0.1                | 16.0               |                    | 0.2                 |
| 06-Jan-09  | 5.3  | 53.0          | 0.1                | 18.0               |                    | 0.2                 |
| 07-Jan-09  | 5.7  | 60.0          | 0.1                | 18.0               |                    | 0.2                 |
| 08-Jan-09  | 5.5  | 60.0          | 0.1                | 18.0               |                    | 0.2                 |
| 05-Feb-09  | 6.5  | 40.0          | 0.1                | 10.0               |                    | <0.05               |
| 17-Feb-09  | 6.4  | 40.0          | 0.1                | 9.0                | 23.0               | 0.2                 |
| 26-Feb-09  | 6.6  | 35.0          | 0.1                | 7.0                | 16.0               | 0.1                 |
| 12-Mar-09  | 6.1  | 48.0          | 0.1                | 12.0               | 9.8                | 0.3                 |
| 24-Jan-10  | 6.5  | 61.0          | 0.1                | 10.0               | 6.3                | 0.2                 |
| 18-Feb-10  | 6.2  | 55.0          | 0.1                | 10.0               | 4.0                | 0.0                 |
| 19-Feb-10  | 6.1  | 62.0          | 0.1                | 10.0               | 1.8                | 0.0                 |
| 20-Feb-10  | 6.1  | 55.0          | 0.1                | 10.0               | 3.1                | 0.0                 |
| 21-Feb-10  | 6.0  | 55.0          | 0.1                | 10.0               | 4.7                | 0.0                 |
| 22-Feb-10  | 6.0  | 55.0          | 0.1                | 10.0               | 3.2                | 0.0                 |
| 29/03/2010 | 6.7  | 67.0          | 0.2                | 14.0               | 2.6                | 0.0                 |
| 23/02/2011 | 6.7  | 52.0          | 0.1                | 13.0               | 4.1                | 0.0                 |
| 24/02/2011 | 6.3  | 64.0          | 0.3                | 12.0               | 4.0                | 0.0                 |
| 25/02/2011 | 6.1  | 58.0          | 0.2                | 14.0               | 4.4                | 0.0                 |
| 26/02/2011 | 6.2  | 58.0          | 0.2                | 13.0               | 4.1                | 0.2                 |
| 27/02/2011 | 6.7  | 58.0          | 0.3                | 11.0               | 2.8                | 0.0                 |
| 28/02/2011 | 6.8  | 60.0          | 0.3                | 12.0               | 3.5                | 0.0                 |
| 01/03/2011 | 6.6  | 56.0          | 0.3                | 10.0               | 3.0                | 0.0                 |
| 30/03/2011 | 6.2  | 61.0          | <0.1               | 21.0               | 11.0               | <0.01               |
| 17-Jan-12  | 6.9  | 86.0          | 0.3                | 17.0               | 126.0              | 0.3                 |
| 18-Jan-12  | 6.2  | 42.0          | 0.1                | 10.0               | 288.0              | 0.5                 |
| 19-Jan-12  | 6.6  | 78.0          | 0.2                | 17.0               | 83.0               | 0.3                 |
| 20-Jan-12  | 6.3  | 39.0          | 0.1                | 7.0                | 788.0              | 0.4                 |
| 21-Jan-12  | 6.6  | 58.0          | 0.2                | 12.0               | 326.0              | 0.6                 |
| 22-Jan-12  | 6.2  | 10.0          | <0.1               | 2.0                | 364.0              | 0.6                 |
| 23-Jan-12  | 6.4  | 16.0          | 0.1                | 4.0                | 366.0              | 0.6                 |
| 10/03/2012 | 6.76 | 71            | 0.2                | 18                 | 121                | 0.18                |
| 25/01/2013 | 6.34 | 63            | 0.2                | 8                  | 34                 | 0.54                |
| 26/01/2013 | 6.32 | 63            | 0.2                | 8                  | 59                 | 0.46                |
| 27/01/2013 | 6.7  | 84            | 0.2                | 13                 | 16                 | 0.28                |
| 07/02/2014 | 7.28 | 62            | 0.2                | 11                 | 68                 | 0.19                |
| 01/03/2014 | 6.57 | 120           | 0.1                | 11                 | 51                 | 0.14                |
| 25/01/2015 | 6.85 | 126           | <0.1               | 6                  | 15.4               | 0.32                |
| 28/02/2015 | 7.42 | 86            | 0.2                | 13                 | 13.3               | 0.38                |
| 29/01/2016 | 6.92 | 140           | 0.2                | 8                  | 36.1               | 0.98                |
| 19/02/2016 | 7.15 | 120           | 0.2                | 7                  | 18.7               | 0.42                |

|                   |                 |                   |                    |                  |                  |                   |                  |                    |
|-------------------|-----------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|
| <0.001            | <0.05           | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |
| Filterable (mg/L) |                 |                   |                    |                  |                  |                   |                  |                    |
| Arsenic<br>(mg/L) | Boron<br>(mg/L) | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) |
| 0.0025            |                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    |
| 0.0025            |                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    |
| 0.009             |                 | 0.0001            |                    | 0.0025           | 0.005            |                   | 0.002            |                    |
| <0.003            | 0.0             | <0.0001           | <0.001             | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             |
| <0.003            | 0.0             | <0.0001           | <0.001             | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             |
| <0.003            | 0.0             | <0.0001           | <0.001             | <0.005           | 0.003            | <0.0002           | <0.002           | <0.003             |
| <0.003            | 0.0             | <0.0001           | <0.001             | <0.005           | 0.003            | <0.0002           | <0.002           | <0.003             |
| 0.006             | 0.0             | <0.0001           | <0.001             | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             |
| 0.004             | 0.0             | <0.0001           | <0.001             | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             |
| 0.005             | <0.002          | <0.0001           | <0.001             | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             |
| 0.006             | 0.0             | <0.0001           | 0.0                | <0.005           | 0.002            | <0.0002           | <0.002           | <0.003             |
| 0.002             | <0.05           | <0.0001           | <0.010             | 0.002            | 0.001            | <0.0001           | <0.001           | <0.01              |
| 0.004             | <0.05           | 0.0               | <0.010             | <0.001           | 0.003            | <0.0001           | <0.001           | <0.01              |
| 0.004             | <0.05           | 0.0               | <0.010             | <0.001           | 0.002            | <0.0001           | <0.001           | <0.01              |
| 0.018             | <0.05           | 0.0               | <0.010             | <0.001           | 0.002            | <0.0001           | <0.001           | <0.01              |
| 0.004             | <0.05           | <0.0001           | <0.010             | <0.001           | 0.001            | <0.0001           | <0.001           | <0.01              |
| 0.004             | <0.05           | <0.0001           | <0.010             | <0.001           | 0.001            | <0.0001           | <0.001           | <0.01              |
| 0.001             | <0.05           | <0.0001           | <0.01              | <0.001           | 0.002            | <0.0001           | <0.001           | <0.01              |
| 0.001             | <0.05           | <0.0001           | 0.0                | 0.002            | 0.024            | <0.0001           | 0.002            | <0.01              |
| <0.001            | <0.05           | <0.0001           | 0.0                | 0.002            | 0.030            | <0.0001           | 0.001            | <0.01              |
| 0.001             | <0.05           | 0.0               | 0.0                | 0.002            | 0.024            | <0.0001           | 0.002            | <0.01              |
| 0.003             | <0.05           | 0.0               | <0.001             | 0.004            | 0.006            | <0.0001           | 0.003            | <0.01              |
| 0.001             | <0.05           | <0.0001           | 0.0                | 0.002            | 0.019            | <0.0001           | 0.002            | <0.01              |
| 0.001             | <0.05           | <0.0001           | <0.001             | 0.003            | 0.017            | <0.0001           | 0.002            | <0.01              |
| 0.001             | <0.05           | 0.0               | 0.0                | 0.003            | 0.017            | <0.0001           | 0.002            | <0.01              |
| 0.002             | <0.05           | <0.0001           | <0.001             | 0.003            | 0.002            | <0.0001           | 0.002            | <0.01              |
| 0.003             | <0.05           | <0.0001           | <0.001             | 0.002            | 0.002            | <0.0001           | 0.001            | <0.01              |
| 0.001             | <0.05           | <0.0001           | 0.0                | 0.003            | 0.002            | <0.0001           | 0.001            | <0.01              |
| 0.003             | <0.05           | <0.0001           | <0.001             | 0.004            | 0.002            | <0.0001           | 0.002            | <0.01              |
| 0.002             | <0.05           | <0.0001           | 0.0                | 0.003            | 0.001            | <0.0001           | <0.001           | <0.01              |
| 0.002             | <0.05           | <0.0001           | 0.0                | 0.002            | 0.002            | <0.0001           | <0.001           | <0.01              |
| <0.001            | <0.05           | <0.0001           | 0.0                | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |
| <0.001            | <0.05           | <0.0001           | 0.0                | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |
| <0.001            | <0.05           | <0.0001           | <0.001             | 0.001            | 0.001            | <0.0001           | <0.001           | <0.01              |
| 0.001             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.002            | <0.0001           | 0.002            | <0.01              |
| <0.001            | <0.05           | <0.0001           | <0.001             | <0.001           | 0.002            | <0.0001           | 0.002            | <0.01              |
| 0.002             | <0.05           | <0.0001           | 0.002              | <0.001           | 0.002            | <0.0001           | 0.002            | <0.01              |
| <0.001            | <0.05           | <0.0001           | <0.001             | <0.001           | 0.003            | <0.0001           | <0.001           |                    |
| <0.001            | <0.05           | <0.0001           | <0.001             | 0.002            | 0.002            | <0.0001           | <0.001           | <0.01              |
| 0.001             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.004            | <0.0001           | <0.001           | <0.01              |
| 0.01              | <0.05           | <0.0001           | <0.001             | <0.001           | 0.002            | <0.0001           | <0.001           | <0.01              |
| 0.002             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.002            | <0.0001           | <0.001           |                    |
| 0.001             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.001            | <0.0001           | <0.001           | <0.01              |

<0.005

| Zinc<br>(mg/L) | Iron (mg/L) | Lead<br>(mg/L) | Manganese<br>(mg/L) | Molybdenum<br>(mg/L) | Sodium<br>(mg/L) | Potassium<br>(mg/L) | Calcium<br>(mg/L) |
|----------------|-------------|----------------|---------------------|----------------------|------------------|---------------------|-------------------|
| 0.019          |             | 0.001          |                     | 0.025                |                  |                     |                   |
| 0.007          |             | 0.001          | 0.025               | 0.025                |                  |                     |                   |
| 0.007          |             | 0.002          |                     | 0.0025               |                  |                     |                   |
| 0.027          |             | 0.0005         |                     | 0.025                |                  |                     |                   |
| 0.021          |             | 0.001          |                     | 0.0025               |                  |                     |                   |
| 0.017          |             | 0.001          |                     | 0.0025               |                  |                     |                   |
| 0.020          |             | 0.0005         |                     | 0.0025               |                  |                     |                   |
| 0.028          |             | 0.0005         |                     | 0.0025               |                  |                     |                   |
| 0.009          |             |                |                     |                      |                  |                     |                   |
| 0.007          |             |                |                     |                      |                  |                     |                   |
| 0.008          |             |                |                     |                      |                  |                     |                   |
| 0.012          |             |                |                     |                      |                  |                     |                   |
| 0.011          |             |                |                     |                      |                  |                     |                   |
| 0.010          |             |                |                     |                      |                  |                     |                   |
| 0.012          |             |                |                     |                      |                  |                     |                   |
| 0.010          |             |                |                     |                      |                  |                     |                   |
| 0.010          |             |                |                     |                      |                  |                     |                   |
| 0.007          |             |                |                     |                      |                  |                     |                   |
| 0.011          |             |                |                     |                      |                  |                     |                   |
| 0.011          |             |                |                     |                      |                  |                     |                   |
| 0.012          |             |                |                     |                      |                  |                     |                   |
| 0.015          |             |                |                     |                      |                  |                     |                   |
| 0.013          |             |                |                     |                      |                  |                     |                   |
| 0.012          |             |                |                     |                      |                  |                     |                   |
| 0.013          |             |                |                     |                      |                  |                     |                   |
| 0.011          |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| 0.010          |             |                |                     |                      |                  |                     |                   |
| 0.007          |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| 0.022          |             |                |                     |                      |                  |                     |                   |
| 0.024          |             |                |                     |                      |                  |                     |                   |
| 0.016          |             |                |                     |                      |                  |                     |                   |
| <0.005         | 0.14        |                | 0.023               |                      | 5                | 2                   | 3                 |
| 0.013          | 0.11        |                | 0.046               |                      | 11               | 5                   | 1                 |
| 0.012          |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |
| <0.005         |             |                |                     |                      |                  |                     |                   |

<0.01



Magnesium (mg/L) TDS (mg/L) Chloride (mg/L) Hydroxide A Carbonate A Bicarbonate Total Alkalinity Aluminium

|   |    |      |    |    |    |      |
|---|----|------|----|----|----|------|
| 1 | <1 | <1   | <1 | 16 | 16 | 0.39 |
| 1 |    | 6 <1 | <1 | 8  | 8  | 0.45 |
|   |    |      |    |    |    | 0.31 |
|   |    |      |    |    |    | 0.54 |
|   |    |      |    |    |    | 0.69 |
|   |    |      |    |    |    | 0.56 |

|               |         |        |       |  |       |       |        |       |
|---------------|---------|--------|-------|--|-------|-------|--------|-------|
| <0.001        | <0.0001 | <0.001 | 0.002 |  | 0.001 | <0.01 | <0.005 | <0.05 |
| Totals (mg/L) |         |        |       |  |       |       |        |       |

Arsenic Cadmium Cobalt Copper Manganes Nickel Selenium Zinc Boron

|       |         |        |       |        |       |       |       |       |
|-------|---------|--------|-------|--------|-------|-------|-------|-------|
| 0.002 | <0.0001 | 0.003  | 0.003 | 0.131  | 0.002 | <0.01 | 0.015 | <0.05 |
| 0.001 | <0.0001 | 0.004  | 0.004 | 0.088  | 0.001 | <0.01 | 0.027 | <0.05 |
| 0.002 | <0.0001 | 0.003  | 0.003 | 0.151  | 0.002 | <0.01 | 0.019 | <0.05 |
| 0.001 | <0.0001 | 0.004  | 0.004 | 0.098  | 0.001 | <0.01 | 0.037 | <0.05 |
| 0.002 | <0.0001 | <0.001 | 0.002 |        | 0.001 | <0.01 | 0.011 | <0.05 |
| 0.002 | <0.0001 | <0.001 | 0.002 | <0.001 | <0.01 |       | 0.012 | <0.05 |

<0.0001

Iron

Mercury

0.92 <0.0001

0.46 <0.0001

0.82 <0.0001

0.64 <0.0001

<0.0001

<0.0001

| Date       | pH   | EC<br>( $\mu$ S/cm) | Fluoride(<br>mg/L) | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | Aluminium<br>(mg/L) |
|------------|------|---------------------|--------------------|--------------------|--------------------|---------------------|
| 10/08/2009 | 6.89 | 169                 | 0.5                | 40                 | 600                | 2.87                |
| 24/01/2010 | 6.58 | 80                  | 0.2                | 14                 | 50                 | 0.34                |
| 18/02/2010 | 6.42 | 65                  | 0.2                | 11                 | 13                 | 0.16                |
| 19/02/2010 | 6.55 | 66                  | 0.2                | 11                 | 11                 | 0.08                |
| 20/02/2010 | 6.64 | 66                  | 0.2                | 11                 | 14                 | 0.08                |
| 21/02/2010 | 6.61 | 65                  | 0.2                | 11                 | 20                 | 0.08                |
| 22/02/2010 | 6.61 | 65                  | 0.2                | 11                 | 11                 | 0.09                |
| 23/02/2011 | 7.15 | 53                  | 0.2                | 8                  | 11.4               | 0.43                |
| 28/03/2010 | 6.98 | 89                  | 0.2                | 12                 | 50                 | 0.14                |
| 11/07/2010 | 7.42 | 96                  | 0.3                | 14                 | 85                 | 0.23                |
| 23/02/2011 | 7.15 | 53                  | 0.2                | 8                  | 11.4               | 0.43                |
| 30/03/2011 | 7.15 | 55                  | 0.2                | 10                 | 30                 | 0.4                 |
| 22/08/2011 | 7.44 | 135                 | 0.4                | 22                 | 140                | 0.23                |
| 20/09/2011 | 7.32 | 228                 | 0.9                | 44                 | 310                | 0.31                |
| 17/01/2012 | 7.01 | 215                 | 0.6                | 52                 | 788                | 1.18                |
| 18/01/2012 | 6.84 | 176                 | 0.5                | 45                 | 551                | 1.43                |
| 19/01/2012 | 6.83 | 186                 | 0.5                | 47                 | 577                | 1.21                |
| 20/01/2012 | 6.98 | 183                 | 0.4                | 47                 | 604                | 1.5                 |
| 21/01/2012 | 6.86 | 197                 | 0.5                | 49                 | 801                | 1.33                |
| 22/01/2012 | 7.02 | 159                 | 0.4                | 41                 | 518                | 1.92                |
| 23/01/2012 | 7.09 | 147                 | 0.4                | 35                 | 405                | 1.9                 |
| 10/03/2012 | 6.93 | 90                  | 0.2                | 32                 | 129                | 0.35                |
| 07/07/2012 | 7.36 | 103                 | 0.3                | 21                 | 37                 | 2.84                |
| 25/01/2013 | 7.23 | 137                 | 0.4                | 28                 | 210                | 2.12                |
| 24/06/2013 | 7.68 | 248                 | 0.9                | 59                 | 174                | 1.25                |
| 07/02/2014 | 7.23 | 207                 | 0.3                | 61                 | 257                | 0.61                |
| 01/03/2014 | 6.54 | 53                  | <0.1               | 11                 | 56                 | 0.44                |
| 31/7/2014  | 6.92 | 293                 | 1.2                | 52                 | 4.3                | 0.09                |
| 25/01/2015 | 6.87 | 127                 | <0.1               | 6                  | 11.3               | 0.44                |
| 28/02/2015 | 7.45 | 86                  | 0.1                | 13                 | 13.8               | 0.43                |
| 20/08/2015 | 7.37 | 401                 | 1.1                | 48                 | 28.2               | 0.08                |
| 29/01/2016 | 7.22 | 94                  | 0.2                | 13                 | 41.9               | 1.08                |
| 19/02/2016 | 7.12 | 63                  | 0.2                | 10                 | 27.4               | 1.22                |

| Filterable (mg/L) |                 |                   |                    |                  |                  |                   |                  |                    |
|-------------------|-----------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|
| Arsenic<br>(mg/L) | Boron<br>(mg/L) | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) |
| 0.006             | <0.05           | <0.0001           | <0.010             | <0.001           | 0.01             | <0.0001           | 0.002            | <0.01              |
| 0.005             | <0.05           | <0.0001           | <0.010             | <0.001           | 0.004            | <0.0001           | <0.001           | <0.01              |
| 0.007             | <0.05           | 0.0002            | <0.010             | <0.001           | 0.004            | <0.0001           | <0.001           | <0.01              |
| 0.007             | <0.05           | 0.0001            | <0.010             | <0.001           | 0.004            | <0.0001           | <0.001           | <0.01              |
| 0.007             | <0.05           | 0.0001            | <0.010             | <0.001           | 0.004            | <0.0001           | <0.001           | <0.01              |
| 0.007             | <0.05           | <0.0001           | <0.010             | <0.001           | 0.003            | <0.0001           | <0.001           | <0.01              |
| 0.007             | <0.05           | <0.0001           | <0.010             | <0.001           | 0.003            | <0.0001           | <0.001           | <0.01              |
| 0.003             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.02             | <0.0001           | <0.001           | <0.01              |
| 0.008             | <0.05           | <0.0001           | <0.01              | <0.001           | 0.006            | <0.0001           | <0.001           | <0.01              |
| 0.006             | <0.05           | <0.0001           | <0.010             | <0.001           | 0.004            | <0.0001           | <0.001           | <0.01              |
| 0.003             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.02             | <0.0001           | <0.001           | <0.01              |
| 0.007             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.003            | <0.0001           | 0.001            | <0.01              |
| 0.009             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.006            | <0.0001           | <0.001           | <0.01              |
| 0.005             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.003            | <0.0001           | <0.001           | <0.01              |
| 0.013             | <0.05           | <0.0001           | 0.001              | <0.001           | 0.006            | <0.0001           | 0.001            | <0.01              |
| 0.006             | <0.05           | <0.0001           | 0.001              | <0.001           | 0.005            | <0.0001           | 0.002            | <0.01              |
| 0.008             | <0.05           | <0.0001           | 0.001              | <0.001           | 0.005            | <0.0001           | 0.001            | <0.01              |
| 0.005             | <0.05           | <0.0001           | 0.001              | <0.001           | 0.006            | <0.0001           | 0.002            | <0.01              |
| 0.012             | <0.05           | <0.0001           | 0.001              | <0.001           | 0.006            | <0.0001           | 0.001            | <0.01              |
| 0.002             | <0.05           | <0.0001           | 0.001              | <0.001           | 0.004            | <0.0001           | 0.001            | <0.01              |
| 0.004             | <0.05           | <0.0001           | 0.001              | <0.001           | 0.004            | <0.0001           | 0.001            | <0.01              |
| 0.001             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.003            | <0.0001           | <0.001           | <0.01              |
| 0.008             | <0.05           | <0.0001           | 0.002              | <0.001           | 0.005            | <0.0001           | 0.002            | <0.01              |
| 0.005             | <0.05           | <0.0001           | 0.003              | <0.001           | 0.006            | <0.0001           | 0.002            | <0.01              |
| 0.014             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.009            | <0.0001           | 0.002            | <0.01              |
| 0.005             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.004            | <0.0001           | 0.001            |                    |
| 0.002             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.004            | <0.0001           | <0.001           | <0.01              |
| 0.017             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.005            | <0.0001           | 0.001            | <0.01              |
| 0.001             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.003            | <0.0001           | <0.001           | <0.01              |
| 0.01              | <0.05           | <0.0001           | <0.001             | <0.001           | 0.002            | <0.0001           | <0.001           | <0.01              |
| 0.005             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.004            | <0.0001           | 0.003            |                    |
| 0.008             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.003            | <0.0001           | <0.001           |                    |
| 0.01              | <0.05           | <0.0001           | <0.001             | <0.001           | 0.003            | <0.0001           | <0.001           | <0.01              |

| Zinc<br>(mg/L) | Iron<br>(mg/L) | Lead<br>(mg/L) | Manganese<br>(mg/L) | Molybdenum<br>(µg/L) | Sodium<br>(mg/L) | Potassium<br>(mg/L) | Calcium<br>(mg/L) | Magnesium<br>(mg/L) |
|----------------|----------------|----------------|---------------------|----------------------|------------------|---------------------|-------------------|---------------------|
| 0.007          |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| 0.005          |                |                |                     |                      |                  |                     |                   |                     |
| 0.006          |                |                |                     |                      |                  |                     |                   |                     |
| 0.006          |                |                |                     |                      |                  |                     |                   |                     |
| 0.005          |                |                |                     |                      |                  |                     |                   |                     |
| 0.006          |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| 0.033          |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| 0.006          |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| 0.008          |                |                |                     |                      |                  |                     |                   |                     |
| 0.007          |                |                |                     |                      |                  |                     |                   |                     |
| 0.009          |                |                |                     |                      |                  |                     |                   |                     |
| 0.006          |                |                |                     |                      |                  |                     |                   |                     |
| 0.008          |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| 0.005          |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| 0.005          |                |                |                     |                      |                  |                     |                   |                     |
| 0.006          |                |                |                     |                      |                  |                     |                   |                     |
| 0.014          |                |                |                     |                      |                  |                     |                   |                     |
| 0.011          | 0.7            |                | 0.01                |                      | 33               | 5                   | 3                 | 2                   |
| 0.006          | 0.38           |                | 0.004               |                      | 7                | 2                   | <1                | <1                  |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| 0.012          |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| 0.016          |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |
| <0.005         |                |                |                     |                      |                  |                     |                   |                     |

| TDS<br>(mg/L) | Chloride<br>(mg/L) | Hydroxide | Carbonate | Bicarbonat | Total Alkal | Aluminium | Arsenic | Cadmium |
|---------------|--------------------|-----------|-----------|------------|-------------|-----------|---------|---------|
|---------------|--------------------|-----------|-----------|------------|-------------|-----------|---------|---------|

|       |    |    |    |      |               |
|-------|----|----|----|------|---------------|
| 11 <1 | <1 | 24 | 24 | 2.04 | 0.011 <0.0001 |
| 2 <1  | <1 | 9  | 9  | 2.26 | 0.009 <0.0001 |

|      |               |
|------|---------------|
| 1.05 | 0.01 <0.0001  |
| 0.69 | 0.012 <0.0001 |

Totals (mg/L)

Cobalt      Copper      Manganese Nickel      Selenium Zinc      Boron      Iron      Mercury

0.003      0.012      0.055      0.003 <0.01      0.038 <0.05      3.79 <0.0001  
 0.001      0.009      0.027      0.002 <0.01      0.022 <0.05      2.4 <0.0001

<0.001      0.004      0.001 <0.01      0.006 <0.05      <0.0001  
 <0.001      0.004      <0.001 <0.01      0.007 <0.05      <0.0001

| Date       | pH   | EC<br>(µS/cm) | Fluoride(<br>mg/L) | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | Aluminium<br>(mg/L) |
|------------|------|---------------|--------------------|--------------------|--------------------|---------------------|
| 24/01/2010 | 4.53 | 318           | 0.8                | 111                | 1.2                | 1.73                |
| 18/02/2010 | 3.96 | 488           | 0.2                | 201                | 0.3                | 5.69                |
| 19/02/2010 | 3.98 | 486           | 1.8                | 204                | 0.3                | 5.78                |
| 20/02/2010 | 3.98 | 491           | 1.9                | 198                | 0.2                | 5.87                |
| 21/02/2010 | 3.98 | 488           | 1.9                | 201                | 0.2                | 5.85                |
| 22/02/2010 | 3.98 | 491           | 1.8                | 202                | 0.2                | 5.87                |
| 28/03/2010 | 3.82 | 770           | 3.2                | 374                | 0.3                | 24.9                |
| 23/02/2011 | 6.24 | 344           | 0.1                | 9                  | 11.3               | 1.46                |
| 30/03/2011 | 3.81 | 428           | 1                  | 160                | 1.2                | 4.83                |
| 31/03/2011 | 3.96 | 565           | 1.2                | 239                | 0.8                | 4.61                |
| 1/04/2011  | 3.99 | 462           | 1                  | 176                | 1.5                | 3.9                 |
| 05/04/2011 | 3.9  | 730           | 1.7                | 301                | 2                  | 9.31                |
| 06/04/2011 | 3.89 | 757           | 1.7                | 311                | 3.9                | 8.46                |
| 07/04/2011 | 3.92 | 778           | 1.7                | 322                | 11                 | 8.89                |
| 13/04/2011 | 3.79 | 853           | 2                  | 363                | 2                  | 9.79                |
| 21/04/2011 | 6.75 | 32            | 0.1                | 6                  | 18                 | 0.11                |
| 2/05/2011  | 3.75 | 1130          | 2.5                | 491                | 3.7                | 14.9                |
| 17/01/2012 | 4.28 | 189           | 0.5                | 67                 | 2.9                | 0.35                |
| 23/01/2012 | 4.3  | 192           | 0.5                | 69                 | 1.5                | 0.37                |
| 10/03/2012 | 4.89 | 110           | 0.4                | 39                 | 7.3                | 0.77                |
| 25/01/2013 | 4.74 | 118           | 0.2                | 36                 | 56                 | 0.46                |
| 07/02/2014 | 6.54 | 76            | 0.2                | 20                 | 84                 | 0.49                |
| 01/03/2014 | 6.15 | 65            | 0.2                | 19                 | 20                 | 0.16                |
| 25/01/2015 | 7.35 | 126           | <0.1               | 8                  | 148                | 2.44                |
| 28/02/2015 | 6.73 | 112           | <0.1               | 30                 | 130                | 0.83                |
| 29/01/2016 | 6.8  | 76            | 0.1                | 13                 | 69.4               | 0.44                |
| 19/02/2016 | 6.91 | 63            | 0.2                | 9                  | 44.1               | 1.68                |

| Filterable (mg/L) |                 |                   |                    |                  |                  |                   |                  |                    |
|-------------------|-----------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|
| Arsenic<br>(mg/L) | Boron<br>(mg/L) | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) |
| 0.006             | <0.05           | 0.0323            | <0.010             | 0.139            | 0.223            | <0.0001           | 0.108            | <0.01              |
| 0.004             | <0.05           | 0.04              | <0.010             | 0.237            | 0.417            | <0.0001           | 0.193            | <0.01              |
| 0.003             | <0.05           | 0.0391            | <0.010             | 0.236            | 0.419            | <0.0001           | 0.196            | <0.01              |
| 0.004             | <0.05           | 0.0397            | <0.010             | 0.23             | 0.417            | <0.0001           | 0.191            | <0.01              |
| 0.003             | <0.05           | 0.0395            | <0.010             | 0.227            | 0.413            | <0.0001           | 0.192            | <0.01              |
| 0.003             | <0.05           | 0.0393            | <0.010             | 0.23             | 0.413            | <0.0001           | 0.192            | <0.01              |
| 0.004             | <0.05           | 0.0828            | <0.01              | 0.478            | 1.14             | <0.0001           | 0.441            | <0.01              |
| 0.006             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.002            | <0.0001           | <0.001           | <0.01              |
| 0.003             | <0.05           | 0.0137            | 0.001              | 0.089            | 0.278            | <0.0001           | 0.093            | <0.01              |
| 0.003             | <0.05           | 0.0113            | 0.002              | 0.106            | 0.232            | <0.0001           | 0.103            | <0.01              |
| 0.003             | <0.05           | 0.0091            | 0.002              | 0.089            | 0.195            | <0.0001           | 0.082            | <0.01              |
| 0.004             | <0.05           | 0.0167            | <0.001             | 0.156            | 0.425            | <0.0001           | 0.152            | <0.01              |
| 0.004             | <0.05           | 0.0156            | <0.001             | 0.16             | 0.396            | <0.0001           | 0.148            | <0.01              |
| 0.004             | <0.05           | 0.0154            | <0.001             | 0.164            | 0.395            | <0.0001           | 0.157            | <0.01              |
| 0.004             | <0.05           | 0.0164            | <0.001             | 0.179            | 0.433            | <0.0001           | 0.177            | <0.01              |
| 0.012             | <0.05           | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |
| 0.004             | <0.05           | 0.0244            | <0.001             | 0.234            | 0.593            | <0.0001           | 0.22             | <0.01              |
| 0.002             | <0.05           | 0.0069            | <0.001             | 0.035            | 0.066            | <0.0001           | 0.028            | <0.01              |
| 0.002             | <0.05           | 0.0064            | <0.001             | 0.032            | 0.058            | <0.0001           | 0.025            | <0.01              |
| 0.001             | <0.05           | 0.005             | <0.001             | 0.039            | 0.088            | <0.0001           | 0.031            | <0.01              |
| 0.004             | <0.05           | 0.0069            | <0.001             | 0.03             | 0.057            | <0.0001           | 0.023            | <0.01              |
| 0.001             | <0.05           | 0.0004            | <0.001             | 0.002            | 0.011            | <0.0001           | 0.002            |                    |
| 0.002             | <0.05           | 0.0017            | <0.001             | 0.015            | 0.012            | <0.0001           | 0.011            | <0.01              |
| 0.01              | <0.05           | <0.0001           | <0.001             | <0.001           | 0.005            | <0.0001           | 0.001            | <0.01              |
| 0.006             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.007            | <0.0001           | <0.001           | <0.01              |
| 0.01              | <0.05           | <0.0001           | <0.001             | <0.001           | 0.004            | <0.0001           | 0.001            |                    |
| 0.012             | <0.05           | <0.0001           | <0.001             | 0.001            | 0.005            | <0.0001           | 0.002            | <0.01              |

| Zinc<br>(mg/L) | Iron<br>(mg/L) | Lead<br>(mg/L) | Manganese<br>(mg/L) | Molybdenum<br>( ) | Sodium<br>(mg/L) | Potassium<br>(mg/L) | Calcium<br>(mg/L) | Magnesium<br>(mg/L) |
|----------------|----------------|----------------|---------------------|-------------------|------------------|---------------------|-------------------|---------------------|
| 0.72           |                |                |                     |                   |                  |                     |                   |                     |
| 1.21           |                |                |                     |                   |                  |                     |                   |                     |
| 1.2            |                |                |                     |                   |                  |                     |                   |                     |
| 1.2            |                |                |                     |                   |                  |                     |                   |                     |
| 1.2            |                |                |                     |                   |                  |                     |                   |                     |
| 1.2            |                |                |                     |                   |                  |                     |                   |                     |
| 2.48           |                |                |                     |                   |                  |                     |                   |                     |
| <0.005         |                |                |                     |                   |                  |                     |                   |                     |
| 0.492          |                |                |                     |                   |                  |                     |                   |                     |
| 0.478          |                |                |                     |                   |                  |                     |                   |                     |
| 0.385          |                |                |                     |                   |                  |                     |                   |                     |
| 0.692          |                |                |                     |                   |                  |                     |                   |                     |
| 0.654          |                |                |                     |                   |                  |                     |                   |                     |
| 0.662          |                |                |                     |                   |                  |                     |                   |                     |
| 0.688          |                |                |                     |                   |                  |                     |                   |                     |
| <0.005         |                |                |                     |                   |                  |                     |                   |                     |
| 0.959          |                |                |                     |                   |                  |                     |                   |                     |
| 0.156          |                |                |                     |                   |                  |                     |                   |                     |
| 0.142          |                |                |                     |                   |                  |                     |                   |                     |
| 0.139          |                |                |                     |                   |                  |                     |                   |                     |
| 0.156          |                |                |                     |                   |                  |                     |                   |                     |
| 0.012          | 0.19           |                | 0.066               |                   | 10               | 3                   | 2                 | <1                  |
| 0.05           | 0.15           |                | 0.297               |                   | 4                | 1                   | 3                 | 1                   |
| 0.006          |                |                |                     |                   |                  |                     |                   |                     |
| 0.015          |                |                |                     |                   |                  |                     |                   |                     |
| 0.03           |                |                |                     |                   |                  |                     |                   |                     |
| <0.005         |                |                |                     |                   |                  |                     |                   |                     |

| TDS<br>(mg/L) | Chloride<br>(mg/L) | Hydroxide | Carbonate | Bicarbonate | Total Alkal | Aluminium | Arsenic | Cadmium |
|---------------|--------------------|-----------|-----------|-------------|-------------|-----------|---------|---------|
|---------------|--------------------|-----------|-----------|-------------|-------------|-----------|---------|---------|

|   |    |    |    |    |      |       |         |
|---|----|----|----|----|------|-------|---------|
| 6 | <1 | <1 | 11 | 11 | 0.89 | 0.004 | 0.001   |
| 2 | <1 | <1 | 5  | 5  | 0.84 | 0.006 | 0.0032  |
|   |    |    |    |    | 2.74 | 0.016 | <0.0001 |
|   |    |    |    |    | 1.55 | 0.017 | <0.0001 |

Totals (mg/L)

Cobalt      Copper      Manganese Nickel      Selenium Zinc      Boron      Iron      Mercury

|       |       |       |       |       |       |       |      |         |
|-------|-------|-------|-------|-------|-------|-------|------|---------|
| 0.005 | 0.024 | 0.132 | 0.005 | <0.01 | 0.029 | <0.05 | 0.71 | <0.0001 |
| 0.034 | 0.033 | 0.567 | 0.021 | <0.01 | 0.099 | <0.05 | 0.86 | <0.0001 |
| 0.002 | 0.008 |       | 0.003 | <0.01 | 0.013 | <0.05 | ---- | <0.0001 |
| 0.002 | 0.007 |       | 0.002 | <0.01 | 0.007 | <0.05 |      | <0.0001 |

| Date      | pH  | <0.1          |                    | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | <0.01 <0.001        |                   |
|-----------|-----|---------------|--------------------|--------------------|--------------------|---------------------|-------------------|
|           |     | EC<br>(µS/cm) | Fluoride(<br>mg/L) |                    |                    | Aluminium<br>(mg/L) | Arsenic<br>(mg/L) |
| 1-Jan-99  | 7.7 | 120           |                    | 2                  |                    |                     | 0.0025            |
| 15-Jan-99 | 6.5 | 85            |                    | 26                 |                    |                     | 0.0025            |
| 15-Feb-99 | 6.1 | 46            |                    | 13                 |                    |                     | 0.0025            |
| 1-Mar-99  | 6.9 | 98            |                    | 23                 |                    |                     | 0.0025            |
| 1-Apr-99  | 6.8 | 89            |                    | 18                 |                    |                     | 0.0025            |
| 1-Jan-00  | 7.2 | 110           |                    | 16                 |                    |                     | 0.0025            |
| 15-Jan-00 | 7.2 | 110           |                    | 4                  |                    |                     | 0.0025            |
| 1-Feb-00  | 9   | 110           |                    | 25                 |                    |                     | 0.0025            |
| 15-Feb-00 | 6.6 | 93            |                    | 24                 |                    |                     | 0.0025            |
| 29-Feb-00 | 6.6 | 84            |                    | 25                 |                    |                     | 0.0025            |
| 15-Mar-00 | 7.8 | 80            |                    | 5                  |                    |                     | 0.0025            |
| 1-Apr-00  | 7.2 | 88            |                    | 6                  |                    |                     | 0.0025            |
| 15-Dec-00 | 5.3 | 56            |                    | 19                 |                    |                     | 0.0025            |
| 4-Jan-01  | 7.1 | 100           |                    | 25                 |                    |                     | 0.0025            |
| 15-Jan-01 | 7.4 | 100           |                    | 26                 |                    |                     | 0.0025            |
| 1-Feb-01  | 7.8 | 110           |                    | 27                 |                    |                     | 0.0025            |
| 15-Feb-01 | 7.2 | 63            |                    | 20                 |                    |                     | 0.0025            |
| 1-Mar-01  | 7   | 66            |                    | 19                 |                    |                     | 0.0025            |
| 15-Mar-01 | 7.4 | 50            |                    | 16                 |                    |                     | 0.0025            |
| 1-Apr-01  | 7.2 | 68            |                    | 15                 |                    |                     | 0.009             |
| 15-Apr-01 | 7.5 | 88            |                    | 12                 |                    |                     | 0.011             |
| 3-Jul-04  | 8.4 | 340           |                    | 43                 |                    | 350                 | 0.01              |
| 14-Jan-05 | 8.4 | 200           |                    | 17                 |                    | 5.4                 | 0.0025            |
| 7-Feb-05  | 7.8 | 230           |                    | 21                 |                    | 17                  | 0.0025            |
| 9-Jun-05  | 8.5 | 390           |                    | 9                  |                    | 5.1                 | 0.0025            |
| 8-Sep-05  | 8.8 | 480           |                    | 15                 |                    | 2.1                 | 0.0025            |
| 26-Jan-06 | 7.8 | 160           |                    | 18                 |                    |                     | 0.0025            |
| 14-Feb-06 | 7.1 | 60            |                    | 18                 |                    | 2.9                 | 0.0025            |
| 6-Mar-06  | 7.3 | 77            |                    | 16                 |                    | 2.5                 | 0.0025            |
| 27-Mar-06 | 6.6 | 32            |                    | 18                 |                    | 27                  | 0.0025            |
| 19-Apr-06 | 7.1 | 56            |                    | 22                 |                    | 2.1                 | 0.0025            |
| 17-May-06 | 7.5 | 63            |                    | 21                 |                    | 0.82                | 0.0025            |
| 14-Jun-06 | 7.8 | 63            |                    | 10                 |                    | 0.74                | 0.0025            |
| 13-Jul-06 | 7   | 71            |                    | 9                  |                    | 3.2                 | 0.0025            |
| 28-Aug-06 | 7.8 | 91            |                    | 11                 |                    | 14                  | 0.0025            |
| 13-Sep-06 | 7.9 | 98            |                    | 10                 |                    | 4.2                 | 0.0025            |
| 16-Oct-06 | 7.8 | 130           |                    | 1                  |                    | 3.3                 | 0.0025            |
| 13-Dec-06 | 7.5 | 140           |                    | 17                 |                    | 2.9                 | 0.0025            |
| 18-Jan-07 | 7.9 | 170           |                    | 17                 |                    | 2.9                 | 0.0025            |
| 13-Feb-07 | 7.8 | 130           |                    | 16                 |                    | 3.7                 | 0.0025            |
| 15-Mar-07 | 8.3 | 130           |                    | 15                 |                    | 3.6                 | 0.0025            |
| 19-Apr-07 | 8.6 | 150           |                    | 21                 |                    | 0.025               | 0.0025            |
| 29-May-07 | 7.8 | 180           |                    | 2                  |                    | 4.9                 | 0.0025            |
| 3-Aug-07  | 7.9 | 160           |                    | 4                  |                    | 2.7                 | 0.0025            |
| 1-Oct-07  | 8.2 | 210           | 0.57               | 4                  |                    | 0.025               | 0.0025            |
| 14-Nov-07 | 8.1 | 290           |                    | 7                  |                    | 4.9                 | 0.0025            |
| 4-Jan-08  | 7.9 | 230           | 0.59               | 9                  |                    | 2.9                 | 0.0025            |
| 31-Jan-08 | 8.5 | 70            |                    | 14                 |                    | 1.6                 | 0.0025            |
| 17-Apr-08 | 7.4 | 69            |                    | 15                 |                    | 0.87                | 0.0025            |
| 12-Mar-08 | 7.8 | 54            |                    | 11                 |                    | 0.99                | 0.0025            |
| 03-Jul-08 | 7.4 | 77            |                    | 14                 |                    | 1.1                 | 0.0015            |

|            |      |     |      |    |      |       |        |
|------------|------|-----|------|----|------|-------|--------|
| 16-Oct-08  | 8.4  | 130 |      | 3  |      | 2.1   | <0.003 |
| 4-Dec-08   | 7.6  | 170 | 0.52 | 3  |      | 4.8   | <0.003 |
| 5-Jan-09   | 7.6  | 130 | 0.28 | 2  |      | 3.6   | <0.003 |
| 6-Jan-09   | 7.6  | 130 | 0.27 | 2  |      | 3.7   | <0.003 |
| 7-Jan-09   | 7.5  | 130 | 0.38 | 2  |      | 3.5   | <0.003 |
| 8-Jan-09   | 7.5  | 130 | 0.39 | 3  |      | 3.5   | <0.003 |
| 5-Feb-09   | 7.5  | 30  | 0.14 | 10 |      | 0.52  | <0.003 |
| 17-Feb-09  | 6.9  | 31  | 0.16 | 9  | 220  | 0.86  | <0.003 |
| 26-Feb-09  | 6.9  | 24  | 0.11 | 5  | 170  | 0.31  | <0.003 |
| 12-Mar-09  | 6.8  | 33  | 0.15 | 7  | 170  | 0.34  | 0.003  |
| 11/08/2009 | 7.45 | 101 | 0.2  | 3  | 310  | 0.68  | 0.002  |
| 23/Jan/10  | 6.74 | 80  | 0.2  | 2  | 270  | 0.28  | 0.002  |
| 18-Feb-10  | 6.5  | 49  | 0.2  | <1 | 210  | 7.99  | 0.002  |
| 19-Feb-10  | 6.56 | 49  | 0.2  | 1  | 200  | 0.44  | 0.002  |
| 20-Feb-10  | 6.64 | 48  | 0.2  | <1 | 200  | 0.46  | 0.001  |
| 21-Feb-10  | 6.64 | 48  | 0.2  | <1 | 200  | 0.45  | 0.001  |
| 22-Feb-10  | 6.68 | 49  | 0.2  | <1 | 200  | 0.5   | 0.002  |
| 28/03/2010 | 7.09 | 60  | 0.2  | <1 | 140  | 0.4   | 0.002  |
| 23/02/2011 | 6.69 | 30  | <0.1 | <1 | 72.4 | 1.81  | <0.001 |
| 24/02/2011 | 7.03 | 31  | <0.1 | <1 | 172  | 0.66  | <0.001 |
| 25/02/2011 | 6.97 | 31  | <0.1 | <1 | 92.9 | 0.86  | <0.001 |
| 26/02/2011 | 6.81 | 32  | <0.1 | <1 | 115  | 1.71  | <0.001 |
| 27/02/2011 | 6.88 | 31  | <0.1 | <1 | 82.3 | 1.62  | <0.001 |
| 28/02/2011 | 6.7  | 35  | 0.1  | <1 | 84.7 | 1.81  | <0.001 |
| 01/03/2011 | 7    | 35  | 0.1  | <1 | 122  | 1.84  | <0.001 |
| 30/03/2011 | 6.99 | 40  | 0.1  | <1 | 83.2 | 4.82  | 0.002  |
| 05/04/2011 | 6.8  | 32  | 0.1  | <1 | 120  | 2.13  | 0.002  |
| 22/08/2011 | 7.32 | 78  | 0.2  | 4  | 140  | 0.42  | 0.002  |
| 20/09/2011 | 7.15 | 108 | 0.3  | 2  | 290  | 0.46  | <0.001 |
| 17/01/2012 | 7.42 | 130 | 0.4  | 3  | 495  | 1.19  | 0.001  |
| 23/01/2012 | 7.67 | 129 | 0.4  | 3  | 545  | 1.15  | 0.002  |
| 10/03/2012 | 7.14 | 88  | 0.2  | <1 | 320  | 1.26  | <0.001 |
| 7/07/2012  | 7.59 | 80  | 0.4  | <1 | 146  | 0.26  | 0.001  |
| 25/01/2013 | 7.79 | 171 | 0.4  | 3  | 464  | 1.64  | 0.002  |
| 26/01/2013 | 7.79 | 171 | 0.4  | 3  | 405  | 1.28  | 0.002  |
| 27/01/2013 | 7.85 | 172 | 0.4  | 3  | 377  | 2.32  | 0.002  |
| 31/01/2013 | 7.94 | 176 | 0.5  | 4  | 428  | 2.09  | 0.002  |
| 23/06/2013 | 7.99 | 295 | 0.9  | 6  | 609  | 1.44  | 0.006  |
| 07/02/2014 | 8.03 | 478 | 1.1  | 9  | 1470 | <0.01 | <0.001 |
| 01/03/2014 | 6.38 | 65  | 0.2  | 15 | 20   | 0.62  | 0.007  |
| 25/01/2015 | 7.37 | 118 | 0.2  | 8  | 145  | 2.54  | 0.003  |
| 28/02/2015 | 6.69 | 113 | <0.1 | 30 | 139  | 0.99  | 0.006  |
| 29/01/2016 | 7.82 | 297 | 0.8  | 6  | 386  | 0.73  | 0.005  |
| 19/02/2016 | 7.86 | 204 | 0.6  | 5  | 307  | 2.14  | 0.004  |

|                   |         |        |        |        |         |        |       |        |
|-------------------|---------|--------|--------|--------|---------|--------|-------|--------|
| <0.05             | <0.0001 | <0.001 | <0.001 | <0.001 | <0.0001 | <0.001 | <0.01 | <0.005 |
| Filterable (mg/L) |         |        |        |        |         |        |       |        |

| Boron<br>(mg/L) | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) | Zinc<br>(mg/L) |
|-----------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|----------------|
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.058          |
|                 | 0.0014            |                    |                  | 0.025            |                   | 0.025            |                    | 0.054          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.019          |
|                 | 0.0007            |                    |                  | 0.025            |                   | 0.025            |                    | 0.03           |
|                 | 0.0005            |                    |                  | 0.025            |                   | 0.025            |                    | 0.039          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.049          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.047          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.042          |
|                 | 0.0004            |                    |                  | 0.025            |                   | 0.025            |                    | 0.042          |
|                 | 0.0003            |                    |                  | 0.025            |                   | 0.025            |                    | 0.026          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.027          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.024          |
|                 | 0.0003            |                    |                  | 0.025            |                   | 0.025            |                    | 0.024          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.014          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.009          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.006          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.012          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.016          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.021          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.006          |
|                 | 0.0001            |                    |                  | 0.025            |                   | 0.025            |                    | 0.012          |
|                 | 0.0001            |                    |                  | 0.005            |                   | 0.025            |                    | 0.026          |
|                 | 0.0001            |                    |                  | 0.01             |                   | 0.025            |                    | 0.015          |
|                 | 0.0001            |                    |                  | 0.01             |                   | 0.025            |                    | 0.015          |
|                 | 0.0001            |                    |                  | 0.01             |                   | 0.05             |                    | 0.016          |
|                 | 0.0001            |                    | 0.025            | 0.01             |                   | 0.025            |                    | 0.019          |
|                 | 0.0001            |                    |                  | 0.005            |                   | 0.025            |                    | 0.012          |
|                 | 0.0001            |                    |                  | 0.01             |                   | 0.025            |                    | 0.011          |
|                 | 0.0001            |                    | 0.025            | 0.01             |                   | 0.025            |                    | 0.009          |
|                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.009          |
|                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.033          |
|                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.013          |
|                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.0025         |
|                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.013          |
|                 | 0.0001            |                    |                  | 0.01             |                   | 0.025            |                    | 0.013          |
|                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.011          |
|                 | 0.0001            |                    |                  | 0.005            |                   | 0.025            |                    | 0.016          |
|                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.016          |
|                 | 0.0001            |                    | 0.025            | 0.005            |                   | 0.025            |                    | 0.012          |
|                 | 0.00001           |                    | 0.025            | 0.005            |                   | 0.002            |                    | 0.02           |
|                 | 0.0001            |                    | 0.025            | 0.01             |                   | 0.025            |                    | 0.012          |
|                 | 0.0001            |                    | 0.025            | 0.01             |                   | 0.025            |                    | 0.017          |
|                 | 0.0001            |                    | 0.025            | 0.006            |                   | 0.002            |                    | 0.008          |
|                 | 0.0001            |                    | 0.025            | 0.006            |                   | 0.002            |                    | 0.019          |
|                 | 0.0001            |                    | 0.025            | 0.008            |                   | 0.003            |                    | 0.013          |
|                 | 0.0001            |                    | 0.025            | 0.013            |                   | 0.004            |                    | 0.028          |
|                 | 0.0001            |                    | 0.0025           | 0.009            |                   | 0.004            |                    | 0.026          |
|                 | 0.0001            |                    | 0.0025           | 0.004            |                   | 0.002            |                    | 0.018          |
|                 | 0.0001            |                    | 0.0025           | 0.004            |                   | 0.002            |                    | 0.021          |
|                 | 0.0001            |                    | 0.0025           | 0.003            |                   | 0.0025           |                    | 0.011          |
|                 | 0.00005           |                    | 0.0025           | 0.003            |                   | 0.0025           |                    | 0.015          |

|        |         |        |        |       |         |        |        |        |
|--------|---------|--------|--------|-------|---------|--------|--------|--------|
|        | <0.0001 |        | <0.005 | 0.005 |         | <0.002 |        | 0.036  |
| 0.026  | <0.0001 | 0.002  | <0.005 | 0.012 | <0.0002 | 0.005  | <0.003 | 0.017  |
| 0.024  | <0.0001 | 0.001  | <0.005 | 0.006 | <0.0002 | 0.002  | <0.003 | 0.033  |
| 0.022  | <0.0001 | 0.001  | <0.005 | 0.008 | <0.0002 | 0.002  | <0.003 | 0.018  |
| 0.019  | <0.0001 | 0.001  | <0.005 | 0.006 | <0.0002 | 0.002  | <0.003 | 0.023  |
| 0.021  | <0.0001 | 0.001  | <0.005 | 0.008 | <0.0002 | 0.002  | <0.003 | 0.011  |
| 0.008  | <0.0001 | <0.001 | <0.005 | 0.003 | <0.0002 | <0.002 | <0.003 | 0.018  |
| 0.008  | <0.0001 | <0.001 | <0.005 | 0.003 | <0.0002 | <0.002 | <0.003 | 0.073  |
| <0.002 | <0.0001 | 0.001  | <0.005 | 0.004 | <0.0002 | <0.002 | <0.003 | 0.014  |
| 0.013  | <0.0001 | 0.002  | <0.005 | 0.003 | <0.0002 | <0.002 | <0.003 | 0.013  |
| <0.05  | <0.0001 | <0.010 | <0.001 | 0.004 | <0.0001 | 0.001  | <0.01  | 0.015  |
| <0.05  | <0.0001 | <0.010 | <0.001 | 0.002 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | 0.0002  | <0.010 | <0.001 | 0.005 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | 0.0001  | <0.010 | <0.001 | 0.004 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | 0.0001  | <0.010 | <0.001 | 0.003 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | 0.0002  | <0.010 | <0.001 | 0.004 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | 0.0002  | <0.010 | <0.001 | 0.004 | <0.0001 | <0.001 | <0.01  | <0.005 |
| 0.07   | <0.0001 | <0.01  | <0.001 | 0.006 | <0.0001 | <0.001 | <0.01  | 0.022  |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.116 | <0.0001 | <0.001 | <0.01  | 0.012  |
| <0.05  | <0.0001 | 0.001  | <0.001 | 0.158 | <0.0001 | <0.001 | <0.01  | 0.017  |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.141 | <0.0001 | <0.001 | <0.01  | 0.016  |
| <0.05  | <0.0001 | 0.002  | <0.001 | 0.107 | <0.0001 | <0.001 | <0.01  | 0.011  |
| <0.05  | <0.0001 | 0.001  | <0.001 | 0.079 | <0.0001 | <0.001 | <0.01  | 0.009  |
| <0.05  | <0.0001 | 0.001  | <0.001 | 0.007 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | 0.001  | <0.001 | 0.007 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | 0.002  | <0.001 | 0.002 | <0.0001 | 0.001  | <0.01  | <0.005 |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.001 | <0.0001 | 0.002  | <0.01  | <0.005 |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.003 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.003 | <0.0001 | 0.001  | <0.01  | <0.005 |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.002 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | 0.004  | <0.001 | 0.002 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.002 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | 0.002  | <0.001 | 0.003 | <0.0001 | <0.001 | <0.01  | 0.009  |
| <0.05  | <0.0001 | 0.003  | <0.001 | 0.003 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | 0.003  | <0.001 | 0.004 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | 0.003  | <0.001 | 0.003 | <0.0001 | 0.001  | <0.01  | <0.005 |
| <0.05  | <0.0001 | 0.004  | <0.001 | 0.003 | <0.0001 | 0.001  | <0.01  | <0.005 |
| <0.05  | <0.0001 | <0.001 | 0.001  | 0.007 | <0.0001 | 0.002  | <0.01  | 0.007  |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.002 | <0.0001 | <0.001 |        | <0.005 |
| <0.05  | 0.0002  | <0.001 | <0.001 | 0.008 | <0.0001 | 0.003  | <0.01  | 0.009  |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.002 | <0.0001 | <0.001 | <0.01  | <0.005 |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.007 | <0.0001 | 0.001  | <0.01  | 0.014  |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.003 | <0.0001 | <0.001 |        | 0.018  |
| <0.05  | <0.0001 | <0.001 | <0.001 | 0.002 | <0.0001 | 0.001  | <0.01  | <0.005 |

| Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Molybdenum (mg/L) | Sodium (mg/L) | Potassium (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | TDS (mg/L) |
|-------------|-------------|------------------|-------------------|---------------|------------------|----------------|------------------|------------|
| 2           | 0.019       | 0.06             |                   |               |                  |                |                  |            |
| 0.59        | 0.0005      | 0.34             |                   |               |                  |                |                  |            |
| 0.63        | 0.0005      | 0.14             |                   |               |                  |                |                  |            |
| 1.9         | 0.005       | 0.21             |                   |               |                  |                |                  |            |
| 1           | 0.004       | 0.025            |                   |               |                  |                |                  |            |
| 2.9         | 0.004       | 0.025            |                   | 24            |                  | 3.7            | 1.9              | 700        |
| 3.5         | 0.007       | 0.08             |                   |               |                  |                |                  |            |
| 1.4         | 0.006       | 0.13             |                   |               |                  |                |                  |            |
| 2           | 0.004       | 0.19             |                   | 14            |                  | 2.1            | 3.4              | 300        |
| 0.74        | 0.003       | 0.05             |                   |               |                  |                |                  |            |
| 0.96        | 0.013       | 0.025            |                   | 16            |                  | 2              | 1.2              | 470        |
| 0.65        | 0.006       | 0.025            |                   | 18            |                  | 1.9            | 1.2              | 370        |
| 0.29        | 0.0025      | 0.025            |                   |               |                  |                |                  |            |
| 4           | 0.007       | 0.08             |                   |               |                  |                |                  |            |
| 3.8         | 0.007       | 0.025            |                   |               |                  |                |                  |            |
| 3.7         | 0.007       | 0.025            |                   |               |                  |                |                  |            |
| 0.66        | 0.003       | 0.025            |                   |               |                  |                |                  |            |
| 0.95        | 0.003       | 0.025            |                   |               |                  |                |                  |            |
| 0.76        | 0.004       | 0.07             |                   |               |                  |                |                  |            |
| 2.9         | 0.004       | 0.07             |                   |               |                  |                |                  |            |
| 3.8         | 0.008       | 0.1              |                   |               |                  |                |                  |            |
|             | 0.047       | 0.14             | 0.025             |               |                  |                |                  |            |
|             | 0.008       | 0.025            | 0.025             |               |                  |                |                  |            |
|             | 0.008       | 0.08             | 0.025             |               |                  |                |                  |            |
|             | 0.009       | 0.1              | 0.05              |               |                  |                |                  |            |
| 2.7         | 0.006       | 0.025            | 0.025             |               |                  |                |                  |            |
| 2.1         | 0.003       | 0.06             |                   |               |                  |                |                  |            |
| 1.9         | 0.005       | 0.025            | 0.025             |               |                  |                |                  |            |
| 2.4         | 0.003       | 0.025            | 0.025             |               |                  |                |                  |            |
| 0.63        | 0.002       | 0.025            | 0.025             |               |                  |                |                  |            |
| 1.6         | 0.003       | 0.025            | 0.025             |               |                  |                |                  |            |
| 13          | 0.002       | 0.025            | 0.025             |               |                  |                |                  |            |
| 0.57        | 0.0025      | 0.025            | 0.025             |               |                  |                |                  |            |
|             | 0.002       |                  | 0.025             |               |                  |                |                  |            |
| 1.1         | 0.003       | 0.025            | 0.025             |               |                  |                |                  |            |
|             | 0.004       |                  | 0.025             |               |                  |                |                  |            |
| 1.7         | 0.004       | 0.025            | 0.025             |               |                  |                |                  |            |
|             | 0.006       |                  | 0.025             |               |                  |                |                  |            |
|             | 0.007       |                  | 0.025             |               |                  |                |                  |            |
|             | 0.007       |                  | 2.5               |               |                  |                |                  |            |
|             | 0.006       | 0.025            | 0.025             |               |                  |                |                  |            |
|             | 0.006       |                  | 0.025             |               |                  |                |                  |            |
| 1.6         | 0.006       | 0.06             | 0.025             |               |                  |                |                  |            |
|             | 0.007       |                  | 0.025             |               |                  |                |                  |            |
| 2.6         | 0.009       | 0.09             | 0.025             |               |                  |                |                  |            |
|             | 0.011       |                  | 0.09              |               |                  |                |                  |            |
|             | 0.013       |                  | 0.0025            |               |                  |                |                  |            |
|             | 0.004       |                  | 0.0025            |               |                  |                |                  |            |
|             | 0.003       |                  | 0.0025            |               |                  |                |                  |            |
|             | 0.002       |                  | 0.0025            |               |                  |                |                  |            |
|             | 0.003       |                  | 0.0025            |               |                  |                |                  |            |

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|       |        |     |   |   |   |
|-------|--------|-----|---|---|---|
| <0.05 | <0.001 | 100 | 3 | 6 | 1 |
| 0.43  | 0.002  | 6   | 2 | 3 | 1 |

<0.01 <0.001 <0.0001 <0.001

Chloride  
(mg/L)

Hydroxide / Carbonate / Bicarbonate Total Alkalinity Aluminium Arsenic Cadmium Cobalt

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|    |    |    |     |     |      |       |         |       |
|----|----|----|-----|-----|------|-------|---------|-------|
| 36 | <1 | <1 | 182 | 182 | 5.86 | 0.007 | <0.0001 | 0.016 |
| 3  | <1 | <1 | 8   | 8   | 0.59 | 0.008 | 0.0003  | 0.001 |
|    |    |    |     |     | 12.4 | 0.007 | <0.0001 | 0.004 |
|    |    |    |     |     | 12.2 | 0.006 | <0.0001 | 0.004 |

0.002

0.001 <0.01

<0.005

<0.05

<0.0001

Totals (mg/L)

Copper

Manganes Nickel

Selenium

Zinc

Boron

Iron

Mercury

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|       |       |             |             |              |
|-------|-------|-------------|-------------|--------------|
| 0.018 | 0.77  | 0.007 <0.01 | 0.018 <0.05 | 4.74 <0.0001 |
| 0.012 | 0.032 | 0.003 <0.01 | 0.016 <0.05 | 0.93 <0.0001 |
| 0.01  |       | 0.005 <0.01 | 0.012 <0.05 | ----         |
| 0.009 |       | 0.004 <0.01 | 0.014 <0.05 | <0.0001      |

|          |            |      |               | <0.1               |                    |                    | <0.01               |
|----------|------------|------|---------------|--------------------|--------------------|--------------------|---------------------|
|          | Date       | pH   | EC<br>(µS/cm) | Fluoride(<br>mg/L) | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | Aluminium<br>(mg/L) |
| BCUS     | 05/04/2011 | 7.14 | 37            | 0.1                | 3                  | 24                 | 0.25                |
| BCUS     | 08/07/2012 | 7.08 | 88            | 0.2                | <1                 | 38                 | 0.11                |
| dry site | 2013       |      |               |                    |                    |                    |                     |
| BCUS     | 01/03/2014 | 6.83 | 50            | <0.1               |                    | 15                 | 0.54                |
| BCUS     | 25/01/2015 | 7.13 | 54            | <0.1               |                    | 6.2                | 0.18                |
| BCUS     | 28/02/2015 | 7.37 | 58            | <0.1               | <1                 | 15.1               | 0.21                |
| BCUS     | 29/01/2016 | 6.24 | 58            | <0.1               |                    | 24.7               | 0.63                |
| BCUS     | 19/02/2016 | 7.13 | 48            | 0.1                | 1                  | 4.8                | 0.32                |

|                   |                 |                   |                    |                  |                  |                   |                  |                    |
|-------------------|-----------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|
| <0.001            | <0.05           | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |
| Filterable (mg/L) |                 |                   |                    |                  |                  |                   |                  |                    |
| Arsenic<br>(mg/L) | Boron<br>(mg/L) | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) |
| 0.008             | <0.05           | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |
| 0.015             | <0.05           | <0.0001           | 0.002              | <0.001           | 0.002            | <0.0001           | <0.001           | <0.01              |
| 0.014             | <0.05           | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |
| 0.032             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.001            | <0.0001           | <0.001           | <0.01              |
| 0.07              | <0.05           | <0.0001           | 0.003              | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |
| 0.025             | <0.05           | <0.0001           | <0.001             | <0.001           | 0.001            | <0.0001           | <0.001           | <0.01              |
| 0.021             | <0.05           | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              |

<0.005

| Zinc (mg/L) | Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Molybdenum (mg/L) | Sodium (mg/L) | Potassium (mg/L) | Calcium (mg/L) | Magnesium (mg/L) |  |
|-------------|-------------|-------------|------------------|-------------------|---------------|------------------|----------------|------------------|--|
| <0.005      |             |             |                  |                   |               |                  |                |                  |  |
| <0.005      |             |             |                  |                   |               |                  |                |                  |  |
| <0.005      | 0.29        |             | <0.001           |                   | 5             | 4                | 1              | <1               |  |
| <0.005      |             |             |                  |                   |               |                  |                |                  |  |
| <0.005      |             |             |                  |                   |               |                  |                |                  |  |
| <0.005      |             |             |                  |                   |               |                  |                |                  |  |
| <0.005      |             |             |                  |                   |               |                  |                |                  |  |

|               |                    |                                     |                  |           |         |         |        |         |
|---------------|--------------------|-------------------------------------|------------------|-----------|---------|---------|--------|---------|
|               |                    |                                     |                  |           |         | <0.01   | <0.001 | <0.0001 |
|               |                    |                                     |                  |           |         |         |        |         |
| TDS<br>(mg/L) | Chloride<br>(mg/L) | Hydroxide / Carbonate / Bicarbonate | Total Alkalinity | Aluminium | Arsenic | Cadmium |        |         |
|               | 4                  | <1                                  |                  | 9         | 9       | 0.58    | 0.016  | <0.0001 |
|               |                    |                                     |                  |           |         | 0.68    | 0.026  | <0.0001 |
|               |                    |                                     |                  |           |         | 0.91    | 0.021  | <0.0001 |
|               |                    |                                     |                  |           |         | 0.71    | 0.035  | <0.0001 |
|               |                    |                                     |                  |           |         | 0.23    | 0.027  | <0.0001 |

|        |       |       |       |        |       |         |
|--------|-------|-------|-------|--------|-------|---------|
| <0.001 | 0.002 | 0.001 | <0.01 | <0.005 | <0.05 | <0.0001 |
|--------|-------|-------|-------|--------|-------|---------|

Totals (mg/L)

|        |        |          |        |          |      |       |      |         |
|--------|--------|----------|--------|----------|------|-------|------|---------|
| Cobalt | Copper | Manganes | Nickel | Selenium | Zinc | Boron | Iron | Mercury |
|--------|--------|----------|--------|----------|------|-------|------|---------|

|        |       |       |        |       |        |       |      |         |
|--------|-------|-------|--------|-------|--------|-------|------|---------|
| <0.001 | 0.001 | 0.011 | <0.001 | <0.01 | <0.005 | <0.05 | 0.58 | <0.0001 |
| <0.001 | 0.001 | 0.01  | <0.001 | <0.01 | <0.005 | <0.05 | 0.78 | <0.0001 |
| <0.001 | 0.001 | 0.013 | <0.001 | <0.01 | <0.005 | <0.05 | 0.61 | <0.0001 |
| <0.001 | 0.001 |       | <0.001 | <0.01 | <0.005 | <0.05 |      | <0.0001 |
| <0.001 | 0.001 |       | <0.001 | <0.01 | <0.005 | <0.05 |      | <0.0001 |

|      |            | <0.1 |               |                    | <0.01 <0.001       |                    |                     |                   |
|------|------------|------|---------------|--------------------|--------------------|--------------------|---------------------|-------------------|
|      | Date       | pH   | EC<br>(µS/cm) | Fluoride(<br>mg/L) | Sulphate<br>(mg/L) | Turbidity<br>(NTU) | Aluminium<br>(mg/L) | Arsenic<br>(mg/L) |
| BCDS | 06/04/2011 | 7.02 | 38            | 0.1                | 3                  | 25                 | 0.44                | 0.008             |
| BCDS | 08/07/2012 | 6.83 | 70            | 0.1                | <1                 | 8                  | 0.02                | 0.007             |
| BCDS | 01/03/2014 | 7.05 | 52            | <0.1               |                    | 12                 | 0.59                | 0.013             |
| BCDS | 25/01/2015 | 7.15 | 54            | <0.1               |                    | 4.5                | 0.08                | 0.028             |
| BCDS | 28/02/2015 | 7.33 | 58            | <0.1               |                    | 16.4               | 0.2                 | 0.071             |
| BCDS | 29/01/2016 | 6.75 | 53            | <0.1               |                    | 23.5               | 0.7                 | 0.023             |
| BCDS | 19/02/2016 | 7.02 | 48            | 0.1                | 1                  | 5.3                | 0.22                | 0.02              |

|                   |                   |                    |                  |                  |                   |                  |                    |                |
|-------------------|-------------------|--------------------|------------------|------------------|-------------------|------------------|--------------------|----------------|
| <0.05             | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |
| Filterable (mg/L) |                   |                    |                  |                  |                   |                  |                    |                |
| Boron<br>(mg/L)   | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Selenium<br>(mg/L) | Zinc<br>(mg/L) |
| <0.05             | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |
| <0.05             | <0.0001           | 0.004              | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |
| <0.05             | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |
| <0.05             | 0.0001            | <0.001             | <0.001           | 0.014            | <0.0001           | <0.001           | <0.01              | 0.02           |
| <0.05             | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |
| <0.05             | <0.0001           | <0.001             | <0.001           | 0.001            | <0.0001           | <0.001           |                    | 0.026          |
| <0.05             | <0.0001           | <0.001             | <0.001           | <0.001           | <0.0001           | <0.001           | <0.01              | <0.005         |



| Iron (mg/L) | Lead (mg/L) | Manganese (mg/L) | Molybdenum ( ) | Sodium (mg/L) | Potassium (mg/L) | Calcium (mg/L) | Magnesium (mg/L) | TDS (mg/L) |
|-------------|-------------|------------------|----------------|---------------|------------------|----------------|------------------|------------|
| 0.31        |             | <0.001           |                | 5             | 4                | 1              | <1               |            |

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<0.01 <0.001 <0.0001 <0.001

Chloride

(mg/L)

Hydroxide / Carbonate / Bicarbonate Total Alkalinity Aluminium Arsenic Cadmium Cobalt

|   |    |    |    |    |      |       |         |        |
|---|----|----|----|----|------|-------|---------|--------|
| 4 | <1 | <1 | 10 | 10 | 0.6  | 0.016 | 0.0001  | <0.001 |
|   |    |    |    |    | 0.91 | 0.026 | 0.0001  | <0.001 |
|   |    |    |    |    | 0.68 | 0.019 | 0.0001  | <0.001 |
|   |    |    |    |    | 0.74 | 0.033 | <0.0001 | <0.001 |
|   |    |    |    |    | 0.19 | 0.028 | <0.0001 | <0.001 |

|               |       |       |        |       |         |
|---------------|-------|-------|--------|-------|---------|
| 0.002         | 0.001 | <0.01 | <0.005 | <0.05 | <0.0001 |
| Totals (mg/L) |       |       |        |       |         |

| Copper | Manganese | Nickel | Selenium | Zinc   | Boron | Iron | Mercury |
|--------|-----------|--------|----------|--------|-------|------|---------|
| 0.004  | 0.012     | <0.001 | <0.01    | 0.007  | <0.05 | 0.59 | <0.0001 |
| 0.004  | 0.011     | <0.001 | <0.01    | 0.009  | <0.05 | 0.79 | <0.0001 |
| 0.004  | 0.016     | <0.001 | <0.01    | 0.005  | <0.05 | 0.61 | <0.0001 |
| 0.001  |           | <0.001 | <0.01    | 0.006  | <0.05 |      | <0.0001 |
| <0.001 |           | <0.001 | <0.01    | <0.005 | <0.05 |      | <0.0001 |