Reviewer Comments and Proponent Responses

Project: Cantung Mining and Milling

Board: Mackenzie Valley Land and Water Board

Organization: North American Tungsten (NATCL) - Cantung

No.	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
Fish	eries and Ocean	s Canada (DFO) - Ms. Anna-Maija LaFlamme		
1		DFO has reviewed the document in accordance with our	DFO has no recommendations at this time.	-
		mandate and has no comments at this time.		
No.	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
Park	s Canada - Alexa			
1		Parks Canada has reviewed the application and has no		-
		comments at this time.		
No.	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
CIRN	NAC (Yellowknife	e) - Megan Larose		
1	General	CIRNAC-Resource and Land Management (RLM) reviewed	none	-
	comment	the Type A water licence renewal application documents		
		submitted for the Cantung Mine Site. It is understood that		
		the purpose of the renewal is to ensure that care and		
		maintenance activities at the Cantung Site remain under an		
		active water licence while regulatory proceedings for Water		
		Licence MV2023L2-0001 and Land Use Permit MV2023D0010		
		are underway. CIRNAC-RLM have no comments about the		
		renewal application at this time; however, will continue to		
		follow the progress of this proceeding and would like the		
		opportunity to review the draft licence at the appropriate		
		time.		
	10010	Reviewer Comment	Reviewer Recommendation	Proponent Response
MVI	WB - Kimberley	Murray		
1	Licence	NATCL has proposed the same scope and terms and	NATCL to provide reference to all documents	Pleased see the attached table.
	MV2015L2-	conditions for Licence MV2023L2-0006 as the current	(plans, reports, and studies) that were	
	0003	Licence (MV2015L2-0003). The Guide to the Water Licencing	submitted under the current Licence that have	
	Requirements	Process (Section 6.2) indicates that reference to documents	not changed.	
	- Plans,	that have not changed should be provided with Renewal		
	Reports,	Applications. In the Application Form, NATCL has provded		

	Studies	links for the most recent versions of the Waste Management Plan, Spill Contingency Plan, Water Management Plan (called Water Management and Mine-site Erosion and Sediment Protection Plan as per Part G, Condition 3 of the current Licence), and Engagement Plan approved under the current Licence. To better understand if any conditions from the		
		current Licence would not be appropriate for inclusion in the draft Licence MV2023L2-0006, NATCL should provide reference to all documents (plans, reports, and studies) submitted under the current Licence that have not changed.		
No.	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
Trai	nsport Canada -	Mr. Scott Kidd		
1		Transport Canada has reviewed the proponent's Application for a renewal of a Type A Water License and notes that project works (water intake in the Flat River at Surveillance Network Program (SNP) station 4-1) are in a navigable waterway. Since its enactment in August 2019, all works in, on, over, under, through or across navigable waters are regulated under the Canadian Navigable Waters Act (CNWA). A project's possible impacts to navigation are dependent on whether the waterway is navigable, and if navigable, the type of work being undertaken, e.g., minor or major work as defined in the CNWA.	The proponent will need to determine the applicability of the Canadian Navigable Waters Act (CNWA) by using Transport Canada's Navigation Protection Program (NPP) Online Project Review Tool: https://npp-submissions-demandes-ppn.tc.canada.ca/projectreview-outildexamenduprojet. During the review, the proponent will be asked a series of questions to assist them in determining their responsibilities under the CNWA. Given the details of this project, Transport Canada recommends in particular that the proponent self-assess against the CNWA Minor Works Order (see link to project review tool provided and details in attached PDF awareness document for Outfalls and Intakes). A copy of the official Minor Works Order can be found at https://laws.justice.gc.ca/eng/regulations/SOR-2021-170/index.html. If ALL criteria have been met, work can proceed in compliance with the Minor Works Order.	NATC is the owner of an existing and historic water intake on the Flat River, which is navigable waters. NATC plans to continue to repair, maintain, operate and use this water intake. Should it be required, NATC will follow-up with Transport Canada's Navigation Protection Program - Prairie and Northern Region office directly to ensure ongoing compliace of this intake pursuant to the CNWA.

				1
			In the event that clarification is required, the	
			proponent can contact Transport Canada's	
			Navigation Protection Program - Prairie and	
			Northern Region office directly to discuss the	
			project: NPPPNR-PPNRPN@tc.gc.ca.	
No	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
GN	WT-ENR - EAM (Environmental Assessment and Monitoring) - Environmental Re	egulatory Analyst	
1	GNWT-ECC	Please see attached.	N/A	-
	Cover Letter			
2	Water	In Section 6 of the Application Form, the following triggers	GNWT-ECC recommends North American	In its application, NATC has attempted
	Licensing	for this type A licence are checked: to obtain water, to cross	Tungsten Corporation Ltd (NATC) clarify the	to mirror the application for the
	Criteria	a watercourse, to modify the bed or bank of a watercourse,	water licensing criteria that trigger a type A	existing Type A water licence to the
		to divert water and to deposit waste. GNWT-ECC notes that	licence and that would otherwise only trigger a	greatest extent possible for process
		some of these criteria do not have triggers for type A	type B licence in Section 6 of the Application	efficiency. Regarding water use: NATC
		licences as outlined in the Mackenzie Valley Federal Areas	Form.	wishes to continue the current
		Waters Regulations. This includes to cross a watercourse, to		licenced water uses. However, it
		modify the bed or bank of a watercourse and to divert water.		notes that only one 'use' was checked
		It is GNWT-ECC's understanding that the MVLWB does not		in the 2015 application form, and it
		exclude below-threshold water uses or deposits of waste or		understands that several uses may
		any other applicable activity set out in s. 6 of the Application		apply under the current legislation
		Form from the scope of a licence once a licence is required.		and related interpretation.
		However the correct trigger(s) for a type A licence should be		
		identified on the application form. Any applicable activities		
		that would otherwise only trigger a type B licence should		
		also be identified on the Application Form.		
3	Term of	GNWT-ECC notes that section 13 of the Application Form	GNWT-ECC recommends that NATC provide	NATC has applied for a licence
	Extension	describes the need for a two-year extension of the current	further rationale on the need for a two-year	duration of 2 years, based on the
		Type A licence (MV2015L2-0003) while acknowledging that	extension and provide additional information	advice of MVLWB staff and in
		the Type B 'renewal' licence (MV2023L2-0001) proceeding	on how they expect the administration of both	consideration of process uncertainties
		will likely be completed by mid-2024. The need for a two-	licences will proceed (i.e., will both the Type A	associated with the Type B water
		year term is unclear to GNWT-ECC as are the activities	and Type B licences be authorizing the site at	licence application. For example,
		covered under each authorization. For example, both	the same time, will NATC apply for cancellation	following submission of its responses
		authorizations may be active concurrently, which could lead	of the Type A immediately upon issuance of a	to party comments on the Type B
		to confusion on which authorization permits which specific	Type B, etc.)	water licence application on June 6,
		activities.		2023, NATC is still awaiting direction
				from the MVLWB on next steps in the

		GNWT-ECC also notes that the Type A licence would require cancellation as per section 72.12 (1)(c) of the Mackenzie Valley Resource Management Act (MVRMA), which requires the Minister's approval under s. 72.13 of the MVRMA. S. 72.12(c) of the MVRMA allows the initiation of a licence cancellation by either the licensee, or by the Board if it is determined to be in the public interest.		process, including a Prelimenary Screening decision, and a decision on whether the application may proceed as a Type B or if it needs to be resubmitted as a Type A. Should NATC be required to resubmit an application for a Type A licence instead of a Type B, additional process time will be required.
4	Public Hearing	As GNWT-ECC has previously noted on the draft work plan, GNWT-ECC does not anticipate there being a need for a technical session or public hearing for this proceeding, as any issue could be discussed in the concurrent Type B proceeding. GNWT-ECC expects this Type A renewal proceeding can proceed as a written proceeding.	N/A	-
5	Link to Type B Proceeding	In review of the Type B 'renewal' licence proceeding (MV2023L2-0001), GNWT-ECC recommended that the Board require NATC to withdraw its current application and submit an application for renewal of a Type A water licence. GNWT-ECC notes this recommendation still stands. GNWT-ECC recognizes that this change to a Type A water licence would still require the current licence be renewed as it expires January 27, 2024.	N/A	-
	Deposit of Waste	In Section 6 of the Application Form, NATC identifies "to deposit waste" as a criterion that triggers the Type A licence. However, in the Application Form for the on-going Type B proceeding, "to deposit waste" was not identified as a criterion that triggers the Type B licence. GNWT-ECC notes it is unclear why the criteria selected for each application form differ, specifically regarding "to deposit waste".	GNWT-ECC recommends NATC clarify why the criteria selected in the Type A and Type B licence Application Forms differ, specifically regarding "to deposit waste".	In its application, NATC has attempted to mirror the application for the existing Type A water licence to the greatest extent possible for process efficiency.
	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
Nah		nd (NDDB) - Elliot Holland		
1	General	As noted, the purpose of this Application is for a type A water licence so the Applicant (NATCL) can continue its current licenced activities while the regulatory proceeding for Permit MV2023D0010 and Licence MV2023L2-0001 is	NDDB views this as an administrative process that should not distract from the longer-term licencing of care and maintenance under Permit MV2023D0010 and Licence MV2023L2-	-

		ongoing. The scope of the Project includes the same scope as the current Licence MV2015L2-0003, as outlined in the Application Package. The Applicant is requesting no changes	0001. NDDB recommends that Parties focus on an efficient and timely process with respect to the extension of current Licence MV2015L2-	
		to the current Licence MV2015L2-0003 terms and conditions.		
No.	Topic	Reviewer Comment	Reviewer Recommendation	Proponent Response
Nor	th American Tur	ngsten (NATCL) - Cantung - Sharleen Hamm NATCL		
1	Response to	Historical Data and Interpretation Report		
	MVLWB,			
	comment 1			
	(second			
	attachment)			



CANADIAN NAVIGABLE WATERS ACT — DESIGNATED CLASS OF MINOR WORKS UNDER THE MINOR WORKS ORDER

Outfalls and Water Intakes

Outfalls and water intakes that meets the following criteria are designated as minor works:

- a) The outfall or water intake does not extend vertically above the bed of the navigable water more than:
 - (i) in the case of a navigable water of less than 15 m in depthⁱ, 5% of the depth of the water, or
 - (ii) in any other case, 1 m;
- b) The outfall or water intake does not alter either the level or the flow of the navigable water to the point of interfering with navigation;
- c) The outfall or water intake is more than 30 m from a navigation channel; and
- d) The outfall or water intake is not associated with an existing or proposed dam, weir or an existing or proposed reservoir of water created by the construction of a dam or weir.

Reposition or remove

If an outfall or water intake designated as a minor work under this class no longer meets the minimum depth criteria identified above, the owner of the outfall or water intake must, as soon as possible, reposition the outfall or water intake to meet the minimum depth criteria or remove the outfall or water intake

General Requirements

Prior notifications

Before beginning the construction, placement, alteration, rebuilding, removal or decommissioning of outfalls or water intakes in, on, over, under, through or across a charted navigable waterⁱⁱ, the owner of the minor work must deposit information on Transport Canada's registry describing the activity and the minor work's location, publish a notice on Transport Canada site entitled "Publish a notification of work " on the <u>external submission site</u> for the Navigation Protection Program, as amended from time to time, unless the minor work has gone through a federal or provincial review process.

Furthermore, the owner of the work must, in writing, notify at least 48 hours before a Canadian Coast Guard Marine Communications and Traffic Services Centre of the day on which construction, placement, alteration, rebuilding, removal or decommission of the work is expected to begin. The owner must also notify the Canadian Hydrographic Service and the Canadian Coast Guard Marine Communications and Traffic Services Centre upon completion.

During the construction, placement, alteration, rebuilding, removal decommissioning, repair or maintenance of a minor work, the owner of the work must ensure:



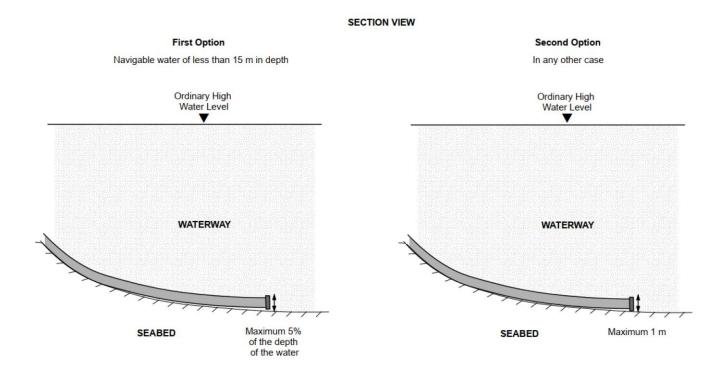
- a) that vessels can navigate safely through or around the work site or, if navigation is interrupted by any activity related to the construction, placement, alteration, rebuilding, removal, decommission, repair or maintenance of the work, that a suitable means, such as a portage, exists to allow vessels to resume navigation upstream and downstream of the work site;
- b) that the perimeter of the work site is visible from sunset to sunrise and during periods of restricted visibility by the placement of
 - (i) yellow flashing lights,
 - (ii) cautionary buoys with retro-reflective material, or
 - (iii) cautionary buoys with yellow flashing lights.
- c) that any cables or pipes that are in, on, over, through or across the navigable water are not left unattended unless
 - (i) the cable or pipe is lying on the bed of the navigable water, or
 - (ii) the cable meets the requirements of *Overhead Systems*, CAN/CSA C22.3 No. 1, as amended from time to time.

Buoys referred in the *Minor Works Order* must meet the following criteria:

- a) The part of the buoy that shows above the surface of the water is at least 15.25 cm wide and at least 30.5 cm high;
- b) The buoy, including the buoy's anchor, is constructed and maintained in a manner and with materials that ensure that it remains in position after the buoy has been anchored; and
- c) The buoy complies with the requirements set out in the section entitled "Floating Aids to Navigation (Buoys)" of TP 968, entitled *Canadian Aids to Navigation System* and published by the Canadian Coast Guard, as amended from time to time.

The official Minor Works Order can be viewed at: https://laws-lois.justice.gc.ca/eng/regulations/SOR-2021-170/

Contact the Navigation Protection Program (NPP) office in your region with any questions or concerns you may have: https://tc.canada.ca/en/marine/contact-navigation-protection-program-receiver-wreck.



ⁱ Measurements — Depth or height

Unless otherwise indicated, any depth or height referred to in this Order is measured from the ordinary high water level at the site where the minor work is situated.

ii Charted navigable water means navigable waters for which nautical charts are produced by the Canadian Hydrographic Service or the National Oceanic and Atmospheric Administration of the United States.



Government of Gouvernement des Northwest Territories Territoires du Nord-Ouest

August 4, 2023

Kimberley Murray Regulatory Specialist Mackenzie Valley Land and Water Board 4922 - 48th Street Yellowknife, NT X1A 2P6

Dear Kimberley Murray,

RE: Cantung Mining and Milling Type A Renewal Licence Application (MV2023L2-0006)

The Department of Environment and Climate Change, Government of the Northwest Territories has reviewed the application at reference based on its mandated responsibilities under the *Waters Act* and has included comments and recommendations for consideration of the Mackenzie Valley Land and Water Board.

For any technical questions, please contact Bill Pain, Environmental Management Scientist with the Regulatory and Permitting Division at Bill_Pain@gov.nt.ca

Should you have any questions or concerns, please do not hesitate to contact gnwt_ea@gov.nt.ca.

Sincerely,

Shakita Jensen

Sjensen

Regulatory Analyst

Department of Environment and Climate Change





July 28, 2023

Kimberley Murray Regulatory Specialist Box 2130 4922-48th Street Mackenzie Valley Land and Water Board Yellowknife, NT

Re: Cantung Type A Renewal Licence Application (MV2023L2-0006)

Dear Ms. Murray,

Parks Canada has reviewed the information submitted to the Mackenzie Valley Land and Water Board (MVLWB) regarding the above-mentioned application. Parks Canada has no comments at this time.

As outlined in the response to Cantung's Type B Renewal Licence and new Type A Permit (MV2023L2-0001 and MV2023D0010), Parks Canada is committed to working with all parties to expedite the regulatory process and ensure that reclamation and closure of the site can move forward as effectively and efficiently as possible in order to minimise the risks to Nahanni National Park Reserve and all downstream water users.

Craig McKinnon

Acting Superintendent

Nahanni National Park Reserve

Fort Simpson, NT



HISTORICAL DATA AND INTERPRETATION REPORT OF WATER QUALITY AT THE CANTUNG MINE, NWT













REPORT

MAY 2012 (REVISED JANUARY 2013) **ISSUED FOR USE** EBA FILE: Y22101275.001



LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of North American Tungsten Corporation and their agents. EBA Engineering Consultants Ltd. operating as EBA, A Tetra Tech Company, does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than North American Tungsten Corporation, or for any project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in EBA's Services Agreement. EBA's General Conditions are provided in Appendix A of this report.

EXECUTIVE SUMMARY

North American Tungsten Corporation Ltd. (NATCL) retained EBA Engineering Consultants Ltd. operating as EBA, A Tetra Tech Company (EBA), to prepare a Historical Data and Interpretation Report of the Water Quality at the Cantung Mine, consistent with Item F12 in MVLWB Water Licence MW2002L2-0019. This report serves to:

- 1. Identify and present all historical water quality sampling data available for the Cantung Mine;
- 2. Illustrate all trends from these data;
- 3. Provide an analysis of these trends; and
- 4. Provide an analysis as to how these provisions contribute to future closure and reclamation planning.

As discussed in this report, the historical assessment of surface water quality parameters at the Cantung Mine focussed on the key parameters traditionally specified in the water licence and the Metal Mining Effluent Regulations. On this basis, the parameters examined and discussed in more detail included arsenic, cadmium, copper, lead, nickel, zinc and total suspended solids.

To allow the presentation of historic and more recent data extending for the period of record from the early 1980s to present, all of the data were treated as being valid, with the general understanding that minimum detection limits (MDL) have decreased as analysis methods have evolved. For data manipulation purposes, where sample values were clearly reported as less than the detection limit, half the value of the detection limit was used for computations and graphics production. In circumstances where it was not possible to determine what the detection limit was (particularly for some of the more historic data), the reported values were used.

Surface Water Quality

Based on the historical review of results that have been presented and discussed in this report, it is readily apparent that the historic and current operations of the Cantung Mine have had very limited effects on the quality of the Flat River water for the water licence parameters assessed at all three surface water sampling sites during the period of record.

Typically at all surface water quality stations sampled, with minor and generally isolated exceptions, mainly in the early 1980s, when the then Canada Tungsten Mine was in operation and in the early and late 1990s when the mine was closed, the concentrations of the key water licence parameters assessed have consistently remained at or below the current CCME guideline values for the protection of freshwater aquatic life.

In addition, as noted for all key metals parameters analyzed over the period of record, following the implementation of improved QA/QC procedures by NATCL in July 2005, total metals concentrations at all three Flat River stations dropped to well below the current CCME guideline values for each of the respective parameters.

The surface receiving water quality monitoring program has consistently demonstrated no appreciable difference in water quality of the Flat River between the sampling stations extending from 3 km upstream of the mine site to 1 km downstream of the mine site.

Groundwater Quality

Similar to the assessment of surface water quality, the assessment of groundwater quality parameters also focussed on the key parameters traditionally specified in the water licence as well as the Metal Mining Effluent Regulations. On this basis, the parameters examined and discussed in more detail included arsenic, cadmium, copper, lead, nickel, zinc and total suspended solids.

Due to the large number of groundwater sampling sites monitored at the Cantung Mine site, NATCL and EBA determined that in the interests of time and efficiency, the assessment historical and current groundwater quality would be focussed on a more limited number of key SNP groundwater sampling stations. In particular the stations that were selected for further analysis were:

- S4-27-1/16 East (down-gradient) of TP2 on the Flat River floodplain, also referred to as MW1-1;
- S4-27-5/13 South (down-gradient) of TP3 west of airstrip north end;
- S4-27-7 East (down-gradient) of TP4 on the Flat River floodplain, also referred to as BH 43;
- S4-28-1 East (down-gradient) of TP3 near airstrip road/groundwater, also referred to as MW-6 and pumping well PW1(designated as MMER FDP); and
- S4-27-17 Northwest of freshwater pump house (background station).

Metals

assessment of the available historical and more recent groundwater quality data set has determined that in general, the concentrations of total metals in the groundwater stations examined at all piezometer depths, with very few exceptions were consistently at or below the current MVLWB MAC groundwater quality parameters for the period of record from 1982 to the present.

Isolated occurrences of elevated total metal levels in groundwater were typically recorded in the mid-1980s, shortly before and after the then Canada Tungsten Mine closed down for an extended shutdown period. However, as previously indicated, some of these elevated values were due to the high detection limits employed at the time by the laboratory.

During the 1990s, when the mine was closed, the concentrations of total metals in the groundwater stations assessed were consistently at or below the current MVLWB MAC groundwater quality parameters with few exceptions.

During the period 2000 to present, the concentrations of total metals in the groundwater at groundwater monitoring stations assessed were consistently at or below the current MVLWB MAC groundwater quality parameters and the MMER requirements, with a few minor exceptions, particularly for total copper and zinc.

Total Suspended Solids

Total suspended solids (TSS) values in groundwater, however, have exceeded the current MVLWB MAC criterion (15 mg/l) at a number of groundwater SNP sites for varying periods of time during the entire period of record.

The single highest value recorded for TSS (10,000 mg/l) reported in the groundwater over the period of record assessed by DIAND (1985-1999) was registered at Station 4-27-7 P12 (located below the toe of TP4 at 0-1.3 m) on November 24, 1986, several months after the mine had shut down its operations (DIAND 2001). This elevated TSS value corresponds with the single highest reading of total zinc reported for the same piezometer on the same day.

Other particularly elevated groundwater TSS results reported during the extended period of record reviewed by DIAND included:

- 1,250 mg/l TSS at Station 4-27-9 (located below the toe of TP2 at 0-8.1 m) on October 11, 1999;
- 1,490 mg/l TSS at Station 4-27-4 P7 (located near the Flat River below TP4/TP3 at 2 m) on June 30, 1999;
- 620 mg/l TSS at Station 4-27-1 P10 (located directly adjacent to 4-27-9 at 9 m)on August 12, 1985;
 and
- 427 mg/l TSS at Station 4-27-5 P6 (located between TP3 and the airstrip) on June 30, 1986.

However, no clear trends for TSS in the groundwater were noted by DIAND (2001). This conclusion is quite consistent with the available mine data presented in this report for this period of time.

Notably elevated TSS values in the 1990s at S4-27-1 were primarily limited to Piezometer 10, which consistently reported higher TSS during the period May 1996 to October 1997 in the range of 123 to 184 mg/l, when the mine was in an extended period of closure.

During the period 2003 to 2008, TSS values in the groundwater at S4-27-1 Piezometer 10 remained elevated above the current MAC value of 15 mg/l, ranging from 44.3 to 235 mg/l. Since being replaced by S4-27-16 in August 2009, TSS values have continued to be elevated above the MAC value for TSS, ranging from 32-96.5 mg/l. However it should be noted that these elevated TSS values were within the range of TSS values recorded at S4-27-1 during the period of record for this station, including the 1990s, when the mine was in an extended closure period.

Notably elevated TSS values at S4-27-5 in the 1990s were primarily limited to Piezometer 13, which reported higher TSS in May, July and October 1996, with recorded TSS values of 51, 53 and 310 mg/l, respectively, and TSS values of 45 and 80 mg/l in October 1997 at Piezometers 1 and 8. Since 2000, with the exception of one TSS value of 691 mg/l recorded at Piezometer 3 on September 9, 2002, all TSS values at this station have remained well below the current MAC criterion.

TSS values at stations S4-27-7, S4-28-1 and S4-27-17 have generally remained below the MVLWB MAC criterion with isolated, occasional minor exceedences.

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Figure 20	Total Copper Concentrations (mg/l) in Groundwater, Station S4-27-5/13, 1980s – Present
Figure 21	Total Lead Concentrations (mg/l) in Groundwater, Station S4-27-5/13, 1980s - Present
Figure 22	Total Nickel Concentrations (mg/l) in Groundwater, Station S4-27-5/13, 1980s - Present
Figure 23	Total Zinc Concentrations (mg/l) in Groundwater, Station S4-27-5/13, 1980s – Present
Figure 24	Total Suspended Solids Concentrations (mg/l) in Groundwater, Station S4-27-5/13, 1980s -
	Present
Figure 25	Total Arsenic Concentrations (mg/l) in Groundwater, Station S4-27-7, 1980s - Present
Figure 26	Total Cadmium Concentrations (mg/l) in Groundwater, Station S4-27-7, 1980s – Present
Figure 27	Total Copper Concentrations (mg/l) in Groundwater, Station S4-27-7, 1980s – Present
Figure 28	Total Lead Concentrations (mg/l) in Groundwater, Station S4-27-7, 1980s - Present
Figure 29	Total Nickel Concentrations (mg/l) in Groundwater, Station S4-27-7, 1980s - Present
Figure 30	Total Zinc Concentrations (mg/l) in Groundwater, Station S4-27-7, 1980s – Present
Figure 31	Total Suspended Solids Concentrations (mg/l) in Groundwater, Station S4-27-7, 1980s – Present
Figure 32	Total Arsenic, Cadmium, and Copper Concentrations (mg/l) in Groundwater, Station S4-28-1,
	2003 - Present
Figure 33	Total Lead, Nickel, and Zinc Concentrations (mg/l) in Groundwater, Station S4-28-1, 2003 -
	Present
Figure 34	Total Suspended Solids Concentrations (mg/l) in Groundwater, Station S4-28-1, 2003 – Present
Figure 35	Total Arsenic, Cadmium, and Copper Concentrations (mg/l) in Groundwater, Station S4-27-17,
	2009 - Present
Figure 36	Total Lead, Nickel, and Zinc Concentrations (mg/l) in Groundwater, Station S4-27-17, 2009 -
	Present
Figure 37	Total Suspended Solids Concentrations (mg/l) in Groundwater, Station S4-27-17, 2009 – Present

APPENDICES

Appendix A EBA's Geo-environmental Report - General Conditions
Appendix B Cantung Mine Compliance Report (DIAND 2001)

1.0 INTRODUCTION

North American Tungsten Corporation Ltd. (NATCL) retained EBA Engineering Consultants Ltd. operating as EBA, A Tetra Tech Company (EBA), to prepare a Historical Data and Interpretation Report of Water Quality at the Cantung Mine, consistent with Item F12 in Mackenzie Valley Land and Water Board (MVLWB) Water Licence MW2002L2-0019. This report summarizes and interprets historical water quality trends and addresses comments on the 2010 Historical Data and Interpretation Report submitted by NATCL (NATCL 2010).

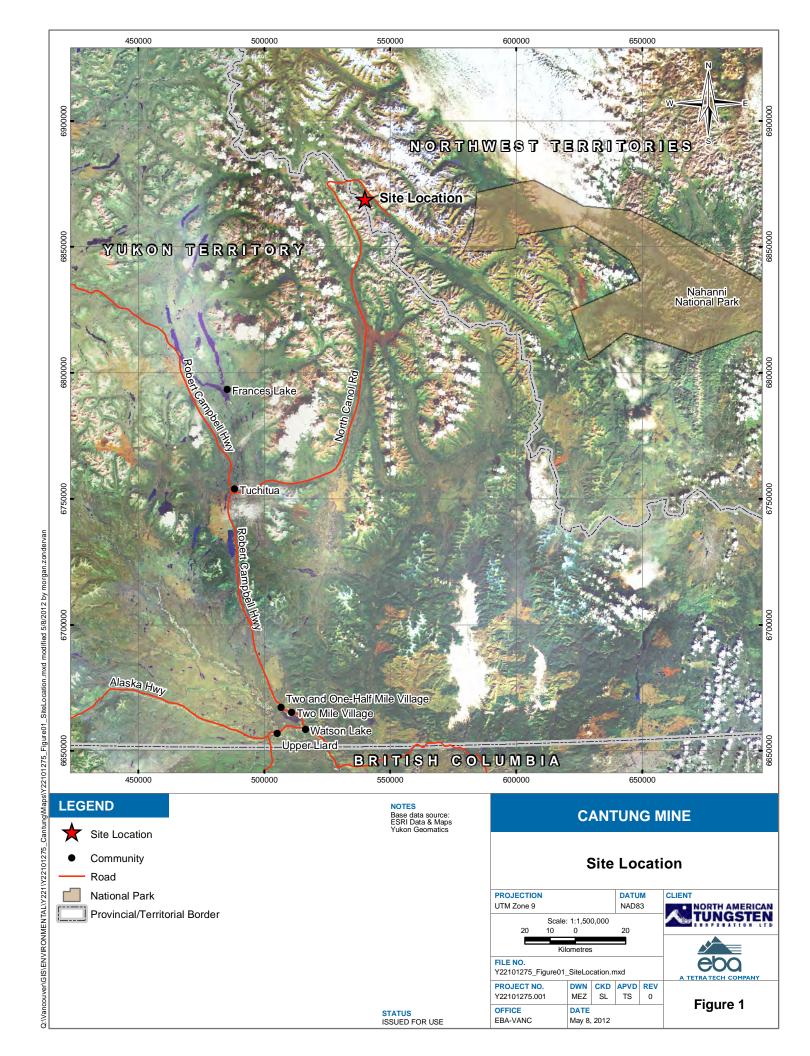
The Cantung Mine site is located near the headwaters of the Flat River, approximately 300 km north of Watson Lake, just east of the Yukon border in the Northwest Territories (NWT). Figure 1 shows the general site location. Figure 2 presents a recent satellite view of the Cantung Mine Area site plan.

I.I Objectives

The objectives of this report are to:

- 1. Identify and present all historical water quality sampling data available for the Cantung Mine;
- 2. Illustrate all trends from these data;
- 3. Provide an analysis of these trends; and
- 4. Provide an analysis as to how these provisions contribute to future closure and reclamation planning.

The project was completed under EBA's– General Conditions for conducting environmental work. A copy of these conditions is provided in Appendix A.





Historic Tailings in Flat River Floodplain

Site Plan

PROJECTION UTM Zone 9 NORTH AMERICAN TUNGSTEN FILE NO. Y22101275_Figure02_SitePlan.mxd eba | DWN | CKD | APVD | REV | MEZ | SL | TS | 0 PROJECT NO. Y22101275.001 Figure 2

STATUS ISSUED FOR USE

OFFICE EBA-VANC May 8, 2012

2.0 CANTUNG MINE HISTORY

Prospectors discovered the Cantung Mine tungsten deposit in 1954 while looking for copper. In 1959, the Canada Tungsten Mining Corporation Ltd. was formed to acquire and develop the property. The Cantung Mine commenced production from an open pit at the rate of 300 tons per day (tpd) in 1962; operations were suspended in 1963 due to low tungsten prices and in 1966 due to a fire that destroyed the mill. The construction of a new 350 tpd mill was completed in 1967 and, in 1969 the capacity was increased to 450 tpd.

In 1971, drilling discovered the "E Zone". This zone was accessed through an adit collared at the valley bottom, close to the town site. The mill began to process the underground ore in 1974.

In 1975, the mill was further expanded to 500 tpd; this was followed by a major mill expansion in 1979 to 1,000 tpd.

In 1985, Amax Inc. consolidated ownership of the Cantung Mine and transferred all tungsten assets, including the Mactung Project at MacMillan Pass, to Canada Tungsten Mining Corporation, retaining majority control. Aur Resources Inc. (Aur) purchased Amax Inc.'s controlling interest in 1995 and Canada Tungsten and Aur merged in 1996.

In 1997, North American Tungsten Corporation Ltd. (NATCL) purchased the Cantung Mine, together with the related tungsten assets of the former Canada Tungsten Inc., from Aur.

After an improvement in tungsten prices in 2000, NATCL reopened the Cantung Mine in December 2001 and resumed underground production and milling. In December 2003, NATCL was placed under the protection of the *Companies Creditors Arrangement Act*, and the mine was closed. In November 2004, NATCL successfully completed a creditor arrangement, allowing planning for reopening to commence. Preparatory work for the reopening began in July 2005, and production resumed in late September 2005. The Cantung Mine suspended operations in October 2009 and resumed production in October 2010.

There are five Tailings Storage Facilities (also known as Tailings Ponds (TP) within the Cantung Mine site: two reclaimed facilities, one inactive facility and two operational facilities.

Tailings Storage Facilities 1 and 2 are located immediately east and below the mill site and were in use from 1965 until the early 1970s. Both facilities have been drained and covered with 1 to 3 metres of fill cover.

Tailings Storage Facilities 3, 4, and 5 are located south of the town site. Tailings Storage Facility 3 was operational from 1974 to 2007. This facility currently remains inactive and uncovered.

Tailings Storage Facility 4 was constructed in the mid-1970s. This facility was operated as an exfiltration pond from 1975 to 2007, at which time it became the primary tailings storage facility.

Tailings Storage Facility 5 was constructed in 2006 and has operated as an exfiltration pond from 2007 to present. As TP5 is located at a higher elevation than TP4, a system of pumps delivers the effluent to TP5 rather than the traditional decant system. This method of settling and exfiltration ensures that effluent is thoroughly filtered and solids are not released to the groundwater.

3.0 SURFACE AND GROUNDWATER MONITORING

According to available records, periodic sampling of the Flat River above and below the Cantung Mine was begun as early as 1966 (the year it opened) by the Water Quality Branch, Inland Waters Directorate, Environment Canada (Sigma Resource Consultants Ltd. 1976). The former Canada Tungsten Mining Corporation commenced water quality sampling in 1973, two years prior to the establishment of a Surveillance Program that was required under the first Conditional Water Licence (Number N 3L3-004) for the Cantung Mine issued by the then Northwest Territories Water Board on June 30, 1975.

More comprehensive water quality monitoring has been conducted at the Cantung Mine site since the early 1980s. The monitoring programs have been conducted to support the requirements under the various water licences that have been issued for the Cantung Mine site. The historical water quality data are not continuous due to long term closures (1986-2001) and short term closures (2003-2005 and 2009-2010). Historical water quality data, prior to NATCL's purchase of the Cantung Mine, are relatively intermittent due to change of ownership and loss of records. In February 2011, NATCL reviewed all archived data reports at the Aboriginal Affairs and Northern Development Canada (AANDC) office in Fort Simpson to have a more continuous record of information.

All historical data (pre-2001) were reported routinely to the NWT Water Board and the Department of Indian and Northern Affairs (DIAND, now AANDC). All current water quality data (2001 – present) have been reported routinely to the MVLWB and AANDC.

Since restarting operations in 2005, the Cantung Mine has also been subject to the requirements of the federal Metal Mining Effluent Regulations (MMER). Quarterly and annual reports along with an initial (2006) Environmental Effects Monitoring Study have been submitted to Environment Canada.

The Surveillance Network Program (SNP) attached to the current Water Licence states specific monitoring requirements for each station at the mine site. This includes monitoring frequency (Item A of the SNP) and Sampling and Analysis Requirements (Item B). Table 1 summarizes these requirements for surface and groundwater monitoring.

Table 1: Cantung Mine SNP Stations, Monitoring Frequency and Parameters

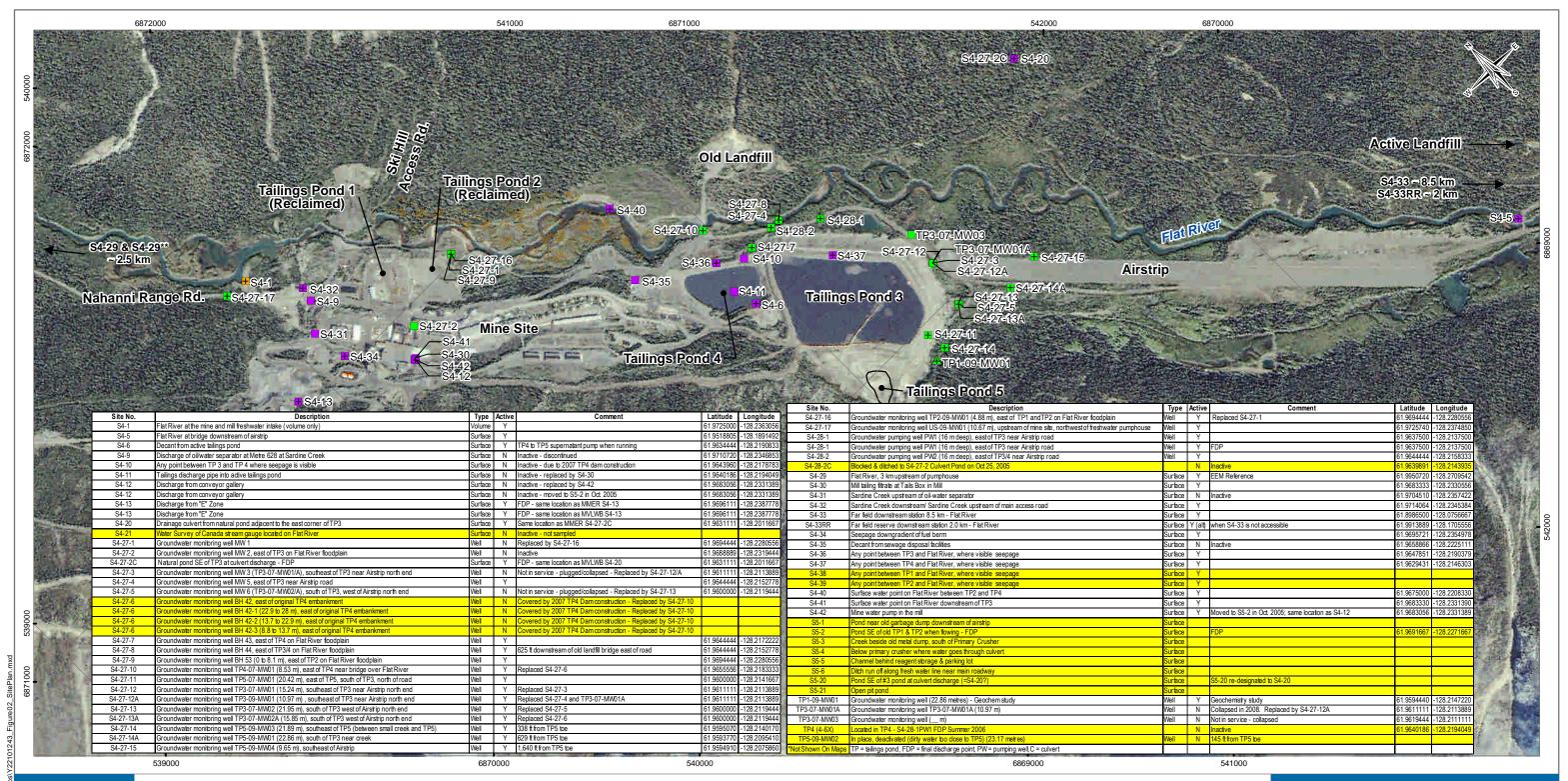
Station	Monitoring Frequency	Parameters
4-5	Monthly	ICP Metal Scan
4-13		Total Ammonia,
4-20	Sulphate	
4-29	·	
4-32 to 4-33/4-33RR	3/4-33RR EPH/Benzene, Toluene, Ethyl	
4-40 to 4-42		Total Suspended Solids (TSS)
		Total Dissolved Solids (TDS)
4-6	Monthly	ICP Metal Scan
		Total Ammonia
		Sulphate
		Alkalinity
		Biochemical Oxygen Demand (BOD)
		EPH/BTEX

Table 1: Cantung Mine SNP Stations, Monitoring Frequency and Parameters

Station	Monitoring Frequency	Parameters
		TSS TDS Faecal Coliforms Nutrients
4-27-4 4-27-7 to 4-27-17 4-28-2	Tri-annual	ICP Metal Scan Sulphate Alkalinity EPH/BTEX TSS Nutrients Cyanide (annual only)
4-28-1 (Final Discharge Point)	Monthly	ICP Metal Scan Sulphate Alkalinity EPH/BTEX TSS Nutrients Cyanide (annual only)
4-30	Monthly	ICP Metal Scan Sulphate Alkalinity Total Ammonia TDS
4-34 4-36 4-3 to 4-39	When Seepage is visible	ICP Metal Scan Sulphate Alkalinity EPH/BTEX Total Ammonia TSS TDS

3.1 Sample Collection Network

The current surface water and groundwater quality monitoring program at the Cantung Mine involves an active network of sampling stations (including effluent, surface water quality and groundwater quality stations. Surface and groundwater monitoring sites are located upstream of the facility, at various locations along the Flat River and the tailings storage facilities, and downstream of all industrial activity. In addition there are four final discharge points that are sampled weekly. Figure 3 illustrates the historic and current regulatory sample collection points at the Cantung Mine. Table 2 provides an index of the sample sites that are currently active.



LEGEND

Sample Location

- MMER, Surface
- MMER, Well
- MVLWB. Surface
- MVLWB, Volume
- MVLWB, Well
- Unknown, Well
- Active Sample Site
 - Historic Tailings in Flat River Flood Plain

Base data source: Imagery provided by NATC
 Interior boundary of Tailings Pond 5 is approximate

CANTUNG MINE

Historic and Current Regulatory Sampling Locations



January 4, 2013

STATUS ISSUED FOR USE

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Figure 3

Table 2: Index of Active Cantung Mine Sample Sites

Sample Point	Description of Location
Cantung Operations V	Vater Quality Sample Points
S4-6	Decant from Active Tailings Pond
S4-13	E Portal Drain Water
S4-30	Mill Tailings Box in the Mill
S4-42	Mine water pump in the Mill
Flat River Water Quali	ty Sample Points
S4-1	Flat River at the mine and mill freshwater intake (volume only)
S4-5	Flat River at bridge downstream from airstrip
S4-29	Flat River 3 km upstream from pumphouse
S4-33	Far field downstream station 8.5 km - Flat River
S4-33RR	Far field reserve downstream station 2.0 km - Flat River
S4-40	Flat River between TP2 and TP4
S4-41	Flat River downstream of TP3
Groundwater Water Q	uality Sample Points
S4-27-4	Groundwater monitoring well MW 5, east of TP3 near airstrip road
S4-27-7	Groundwater monitoring well BH 43, east of TP4 on Flat River floodplain
S4-27-8 BH44-1	Groundwater monitoring well BH 44-1, east of TP4/3 on Flat River floodplain
S4-27-8 BH44-2	Groundwater monitoring well BH 44-2, east of TP4/3 on Flat River floodplain
S4-27-8 BH44-4	Groundwater monitoring well BH 44-4, east of TP4/3 on Flat River floodplain
S4-27-9	Groundwater monitoring well BH 53, east of TP2 on Flat River floodplain, SE of TP2
S4-27-10	Groundwater monitoring well TP4-07-MW01, east of TP4 near bridge over Flat River
S4-27-11	Groundwater monitoring well TP5-07-MW01, east of TP5, south of TP3, north of road
S4-27-12	Groundwater monitoring well TP3-07-MW01, southeast of TP3 near airstrip north end
S4-27-13	Groundwater monitoring well TP3-07-MW02, south of TP3 west of airstrip north end
S4-27-14	Groundwater monitoring well TP5-09-MW03, southeast of TP5 (between small creek and TP5)
S4-27-15	Groundwater monitoring well TP5-09-MW04, southeast of airstrip
S4-27-16	Groundwater monitoring well TP2-09-MW01, east of TP1 and TP2
S4-27-17	Groundwater monitoring well US-09-MW01, upstream of mine site
S4-28-1	Groundwater pumping well PW 1, east of TP3 near airstrip road (designated as final discharge point in MMER)
S4-28-2	Groundwater pumping well PW 2, east of TP4/3 near airstrip road
System 4: Surface Wa	ter Quality Sample Points
S4-20	Drainage culvert from natural pond adjacent to the east corner of TP3
S4-32	Sardine Creek Downstream / Sardine Creek upstream of main access road

3.2 Historical Data Sources and Tabulation

The amount of historical (pre-2001) water monitoring records is very limited due to the changing ownership of the Cantung Mine at the time. North American Tungsten Corporation Ltd. reviewed AANDC's (Fort Simpson) historical records to compile a more complete monitoring record. The AANDC's Fort Simpson office is the historical recipient of all data reports from the Cantung Mine during operations prior to 2001.

In addition, past reports were reviewed for data content and, wherever possible, these data were also included in the data set.

In 2010, NATCL began the process of database development, using a proprietary database (FULCRUM) operated by Knight Piesold Ltd. (KPL). Due to the use of different nomenclature for monitoring sites tables of concordance had to be developed before the information could be uploaded. As well, prior to 2001, different reporting methods and different analytical methods were also used. Since 2001, NATCL has conducted water quality monitoring with strict adherence to quality assurance and quality control (QA/QC) guidelines. The database of historical data was completed in February 2012.

The historical chemistry data were provided to EBA by NATCL's data management consultant (KPL). EBA uploaded the FULCRUM data, as provided by KPL into its internal database (ESdat). ESdat is a specialist environmental database system, used by environmental managers, particularly those concerned with contaminated / industrial sites, groundwater investigations, landfill and regulatory compliance.

ESdat allows for efficient importing from a range of systems or data sources into a central environmental database. The system provides data comparison and analysis, comprehensive reporting, and integration with other software. The system also performs QA/QC analysis and has automatic data validation checks.

NATCL is pleased to provide the complete KPL database to the MVLWB on a CD attached to this report.

4.0 SURFACE WATER QUALITY

As previously indicated, according to available records, periodic sampling of the Flat River above and below the Cantung Mine was begun as early as 1966 (the year it opened) by the Water Quality Branch, Inland Waters Directorate, Environment Canada (Sigma Resource Consultants Ltd. 1976). DIAND, with the assistance of the former Canada Tungsten Mining Corporation commenced water quality sampling in 1973, two years prior to the establishment of a Surveillance Program required under the first Conditional Water Licence (Number N-3L3-004) for the Cantung Mine issued by the then Northwest Territories Water Board on June 30, 1975.

The following sub-sections discuss the results of the few documents that NATCL/EBA were able to locate related to the early years of operation at the Cantung Mine.

4.1 Environmental Protection Services (Environment Canada) 1973

In 1973 the federal Environmental Protection Service of Environment Canada conducted a preliminary study focused on water quality, sediment quality and the benthic biota of the Flat River (Environmental Protection Service 1973). At that time the historic tailings deposited into the Flat River floodplain were

being retained by a causeway that had been constructed across the Flat River. River flow was directed through three culverts beneath the causeway, which restricted the flow. As reported by Environmental Protection Service (1973), a water quality monitoring program was initiated early in 1973 by DIAND (now AANDC). Samples were collected by personnel of Canada Tungsten and forwarded for analysis to the Inland Waters Laboratory of Environment Canada in Calgary, Alberta. Table 3 presents the results reported in Table 1 of the Environmental Protection Service (1973) report.

Table 3: Summary of 1973 Water Analysis (Environmental Protection Service 1973)

Location and Sample Date	Cu (mg/l)	Temp (°C)	Nitrate- Nitrite (mg/l)	рН	Turbidity (NTU)	Cond. (µmho/cm)	Hardness (CaC0₃)
Intake Water at F	lat River Pump	house (upstrea	m S4-1)				
March 28	0.036	0.5	0.07	7.4	1.9	269	136
May 17	0.015	1.0	0.03	7.9	4.8	166	80.5
June 5	0.015	4.0	0.03	7.7	1.6	190	91.4
Sardine Creek							
May 17	х	х	2.4	8.2	68	501	212
June 5	0.015	3.0	1.8	7.9	5.7	423	186
Causeway Culve	rt (formerly S4	-5)					
March 28	<0.013	0.5	0.97	8.3	21	303	147
May 17	х	1.0	х	7.9	43	5,805	92.9
June 5	0.015	4.0	0.07	7.1	1.5	209	101
Decant from Old	Tailings Pond	(TP1 and TP2)					
March 28	0.025	4.0	2.6	7.3	12	539	183
May 17	0.32	10.0	0.25	8.6	94	415	146
June 5	1.3	13.0	0.09	8.3	32	461	148
Flat River (1 mile	downstream -	- S4-5)					
March 28	<0.013	х	0.10	8.5	13	298	144
May 17	х	1.0	0.11	8.2	15	198	89.4
June 5	0.03	4.0	0.03	7.7	3.3	199	91.6

DIAND program, samples collected by Canada Tungsten personnel, samples analyzed by Environment Canada

Source: Table 1 from Environmental Protection Service 1973

Although the data presented are limited, of particular note is that the average background concentration of total copper (0.022 mg/l) sampled at the intake of the Flat River pumphouse (upstream of the historic Flat River tailings deposit), was comparable but slightly higher than the average concentration of total copper (0.014 mg/l) flowing through the causeway culverts, downstream of the tailings deposit. One mile (1.6 km) downstream of this site, the average concentration of total copper in Flat River water (0.022 mg/l) was consistent with the background results recorded for the upstream location.

Water hardness ranged from an average of 102.6 mg/l at the upstream site, to 113.6 mg/l at the causeway culvert and 108.3 mg/l at the downstream site. Water pH ranged from an average of 7.7 at the upstream site, to 7.8 at the causeway culvert and 8.0 at the downstream site.

X - denotes no results

Nitrate/nitrite and conductivity were the only chemical parameters analyzed that showed some downstream effect related to the historic tailings retained by the causeway. Average nitrate/nitrite concentrations ranged from 0.04 mg/l at the upstream site, to 0.52 mg/l at the causeway culvert and 0.08 mg/l at the downstream site.

Average conductivity ranged from $102.6~\mu mho/cm$ at the upstream site, to $2,105~\mu mho/cm$ at the causeway culvert and $231~\mu mho/cm$ at the downstream site. However, it should be noted that the high value recorded at the causeway culvert was due to one particularly high reading ($5,805~\mu mho/cm$) recorded on May 17, 1973, which may have been associated with the initiation of spring freshet.

4.2 Sigma Resource Consultants Ltd. (1976)

Sigma Resource Consultants Ltd. (Sigma) was retained by Canada Tungsten Mining Corporation in May, 1976, to undertake a study to determine the zone of influence and the impact of Cantung's mining and milling operation on the aquatic ecosystem of the Flat River in accordance with Terms of Reference provided by the Northwest Territories Water Board. As part of the study, Sigma reviewed water quality data obtained and reported by the Water Quality Branch, Waters Directorate periodically from 1966 to 1975.

Specifically, Sigma reviewed data summaries received from the National Water Quality Data Bank. Unfortunately, NATCL/EBA have not been able to locate any of these historic reports, but a summary of the more relevant water quality parameters and sampling dates for various stations reported by Sigma for that period is provided in Table 4.

As can be noted, this table presents results for a considerable number of parameters and includes dissolved and total (extractable values) for most of the metals reported. However, the following discussion will be limited to the total form of metals parameters specified in the water licence, nutrients, water hardness and pH.

The periods of record and number of samples collected for the data presented for the three key stations discussed in this report were:

- Flat River above the Pumphouse (water intake S4-1) August 24, 1966 to December 9, 1975 31 samples;
- Flat River at Causeway Culvert (formerly S4-5) August 24, 1966 to August 13, 1975 27 samples;
- Flat River approx. 1 mile (1.6 km) downstream of Tailings Ponds (S4-5) March 28, 1973 to December 9, 1975 18 samples.

Based on the data presented, the average total copper concentration recorded in Flat River water collected above the pumphouse (representing background) for the period of record was 0.009 mg/l. This compared with average total copper concentrations of 0.02 mg/l downstream at the Flat River causeway culverts, and 0.024 mg/l at the station located one mile downstream of the tailings pond. These concentrations are generally consistent with the more limited copper data reported by Environmental Protection Service (1973).

Table 4: Summary of Water Quality Results – Water Quality Branch, Inland Waters Directorate

STATION No. &	PERIOD OF RECORD	рН	Turbidity	Total Dissolved	Total Hardness	Total Organic	anic Total	Total Phosphorus	Arsenic Dissolved	Cadmium Extractable	Cyanide	Copper (mg/L)		lron (mg/L)		Lead (mg/L)			inc g/L)	
			(J.T.U.)	Solids (mg/L)	as CaC0₃ (mg/L)	Carbon	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Dissolved	Extractable	Dissolved	Extractable	Dissolved	Extractable	Dissolved	Extractable	
	24/08/66	No. Smpls	31	30	20	28	17	11	15	18	5	2	12	25	14	26	11	21	11	18
Flat River Above	- 9/12/75	Low	7.3	<0.1	63	27	<0.5	.01	<.003	0	<.002	0	<.001	<.001	.01	.02	<.001	<.001	<.001	<.001
Mine Raw Water Intake		High	8.3	23	185	173	6.5	.41	.015	.005	<.03	.018	.22	.036	.17	2.20	<.05	.05	.016	.16
inake		Average	-	4(5)	119(41)	107(41)	2.4(1.6)	.22	.006(.004)	.002(.002)		.009(.013)	.03(.06)	.009(.008)	.06(.05)	.27(.42)	.01(.01)	.01(.02)	.005(.005)	.02(.04)
		Median	7.7	3.1	127	130	2.0	.22	<.005	.001	<.01	.009	<.01	<.01	<.04	.16	.004	.004	.003	<.013
00NW10EA0002	24/08/66	No. Smpls	27	27	14	19	14	11	15	19	5	2	9	26	12	21	9	19	9	14
Flat River at	– 13/08/75	Low	7.1	0.8	70	63	<0.5	.08	<.003	0	<.002	0	<.001	<.001	<.001	.1	<.003	<.003	.001	<.01
Causeway		High	8.0	125	174	159	15.0	.73	.09	.013	<.03	.002	<.013	.09	14.5	22	<.05	<.05	<.016	.09
Culvert		Av. (S.D.)	-	19(27)	120(42)	108(37)	3.3(4)	.37	.016(.022)	.003(.004)	.01(.01)	.001(.001)	.007(.004)	.02(.02)	1.6(4.2)	2.4(5.2)	.01(.02)	.01(.02)	.005(.004)	.03(.03)
		Median	7.8	7	117	101	2.0	.34	.010	.001	.006	0	<.008	.01	.05	.65	<.004	.005	.003	.02
00NW10EA0003	22/05/70	No. Smpls	18	18	12	13	9	7	8	11	5	1	5	13	5	13	5	10	5	10
Sardine Creek at	-13/08/75	Low	7.5	0.4	93	81	<0.5	.85	<.003	0	<.002	.003	<.001	.003	<.001	<.05	<.001	<.001	.001	.002
Watson Lake		High	8.2	200	240	213	5.0	2.4	.067	.033	<.03	.003	.004	.07	.07	25	.004	<.05	.019	.13
Road		Average	-	33(54)	165(46)	141(43)	2.3(1.8)	1.47	.013 (.022)	.007(.01)	.01(.01)		.002(.001)	.02(.02)	.04(.03)	3.6(6.6)	.003(.001)	.01(.02)	.007(.008)	.051(.052)
		Median	8.0	6.2	166	146	1.4	1.26	.006	.004	<.007		.002	<.01	<.04	1.4	<.004	<.006	.005	.02
00NW10EA0004	26/05/72	No. Smpls	9	9	7	8	1	1	1	1	1		1	1	1	1	1	1	1	1
Flat River Near	-24/04/74	Low	7.7	0.5	100	86	32	.15	.015	<.004	<.002		.002	<.006	.21	.44	<.01	<.006	<.01	.013
Mouth		High	8.2	30.0	231	214	32	.15	.015	<.004	<.002		.002	<.006	.21	.44	<.01	<.006	<.01	.013
		Average	-	11.6(11.2)	162(50)	164(50)	32													
		Median	8.0	7.6	149	177														
	28/03/73	No. Smpls	18	17	11	11	12	12	15	17	5		10	15	9	15	10	15	10	6
Flat River	- 09/12/75	Low	7.5	1.2	60	48	<1.0	.07	<.003	<.001	.002		.002	.002	.02	.17	<.003	<.003	<.001	<.01
Approx. 1 Mile D/Stream of		High	8.4	33	174	146	24	.57	.031	.072	<.03		.045	.067	.13	3.7	<.05	<.05	<.016	.11
Tailing Pond		Average	-	10(9)	112(48)	123(36)	4(6)	.31	.01(.009)	.011(.021)	.01(.01)		.021(.018)	.024(.020)	.06(.04)	.96(.97)	.01(.01)	.01(.02)	.004(.004)	.04(.04)
5		Median	8.0	5.8	105	144	2.0	.31	.006	.002	.006		0.14	<.015	<.04	.83	<.004	.005	<.003	.019

(#) = Standard Deviation

Source: Sigma Resource Consultants Ltd. 1976

Average total cadmium concentrations, reported for all three sites, were regularly below the detection limit of the time (0.002 mg/l) and was reported as 0.01 mg/l at all three sites. Similarly, average total lead concentrations were also reported as 0.01 mg/l at all three sites. Average total zinc concentrations appeared to increase marginally with distance downstream, ranging from 0.02 mg/l at the upstream (background) station, to 0.03 mg/l below the causeway culverts and 0.04 mg/l at the station located one mile downstream of the tailings pond.

Average total nitrate concentrations, reported for all three sites, increased marginally with distance downstream, ranging from 0.22 mg/l at the upstream (background) station to 0.37 mg/l below the causeway culverts and 0.31 mg/l at the station located one mile downstream of the tailings pond. Average total phosphorus concentrations ranged from 0.006 mg/l at the upstream station to 0.016 mg/l below the causeway culverts, and 0.01 mg/l at the station located one mile downstream of the tailings ponds.

Water hardness ranged from an average of 107 mg/l at the upstream site, to 108 mg/l at the causeway culverts and 123 mg/l at the downstream site. Water pH ranged from a median of 7.7 at the upstream site, to 7.8 at the causeway culvert and 8.0 at the downstream site.

4.3 1980 to Present Surface Water Quality Reporting

For purposes of this report, the assessment of surface water and groundwater quality parameters focussed on the key parameters traditionally specified in the water licence and the MMER. On this basis, the parameters examined and discussed in more detail include arsenic, cadmium, copper, lead, nickel, zinc and total suspended solids (TSS).

In addition, to allow the presentation of historic and more recent data extending for the period of record from the early 1980s to present, all of the data were treated as being valid, with the general understanding that minimum detection limits (MDL) have decreased as analysis methods have evolved. For data manipulation purposes, where sample values were clearly reported as less than the detection limit, half the value of the detection limit was used for computations and graphics production. In circumstances where it was not possible to determine what the detection limit was (particularly for some of the more historic data), the reported values were used.

Using these assumptions, the Surveillance Network Program (SNP) surface water quality stations assessed for the period of record (early 1980s to present) were:

- S4-29 Flat River 3 km upstream from pumphouse:
- S4-5 Flat River at the bridge downstream from airstrip (below the mine);
- S4-33 Flat River far field site located approx. 8.5 km downstream of S4-5.

Table 5 presents all of the data evaluated for these three surface water quality stations and the selected parameters for the period of record. In addition, for the reporting of copper, zinc and total suspended solids data, it should be noted that additional data reported by DIAND (2001) were imported into the ESdat database and incorporated into the respective figures for these two parameters.

Figures 4 to 10 present the Flat River surface water quality trends in relation to the established Canadian Council of Ministers of the Environment (CCME) water quality guideline values for the protection of freshwater aquatic life. The following subsections discuss the results for each of the key parameters.

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-29								
S4-29	31/03/1982	0.005	0.005	0.03	0.025	0.025	0.01	120
S4-29	15/06/1982	0.005		0.005	0.025	0.025	0.52	38
S4-29	06/07/1982	0.0005	0.0005	0.0005	0.0005	0.0025	0.0027	35
S4-29	22/09/1982	0.0005	0.0005	0.0005	0.0005	0.002	0.002	48
S4-29	06/10/1982	0.001	0.0001	0.0005	0.00025	0.0005	0.015	65
S4-29	10/12/1982	0.0005	0.00014	0.0005	0.0003	0.00125	0.009	
S4-29	22/02/1983	0.001	0.00005	0.0015	0.0005	0.0005	0.0025	92
S4-29	15/06/1983	0.0005	0.00005	0.0005	0.0001	0.0005	0.009	40
S4-29	31/08/1983	0.0036	0.00005	0.00025	0.0001	0.0005	0.0025	55
S4-29	24/11/1983	0.0005	0.00005	0.00025	0.0001	0.0033	0.013	110
S4-29	25/11/1983			0.01				
S4-29	30/12/1983			0.02				
S4-29	27/01/1984			0.01				
S4-29	24/02/1984			0.01				
S4-29	25/02/1984	0.0005	0.00005	0.0005	0.0005	0.0005	0.019	98
S4-29	04/07/1984	0.0005	0.00005	0.0008	0.0001	0.0005	0.005	36
S4-29	18/01/1985			0.02			0.02	
S4-29	15/02/1985			0.08			0.02	
S4-29	15/03/1985			0.02			0.04	
S4-29	30/03/1985			0.01				
S4-29	12/04/1985			0.02			0.02	
S4-29	24/04/1985	0.0005	0.00005	0.0014	0.0001	0.0005	0.01	98
S4-29	27/04/1985			0.01				
S4-29	17/05/1985			0.02			0.02	
S4-29	14/06/1985			0.02			0.02	
S4-29	28/06/1985			0.01				
S4-29	12/07/1985			0.02			0.02	
S4-29	15/08/1985	0.0005	0.0004	0.0019		0.005	0.0075	34
S4-29	16/08/1985			0.02			0.02	
S4-29	30/08/1985			0.01				
S4-29	13/09/1985			0.02			0.02	
S4-29	27/09/1985			0.01				
S4-29	18/10/1985			0.02			0.02	
S4-29	15/11/1985			0.12			0.02	
S4-29	13/12/1985			0.02			0.02	
S4-29	16/01/1986			0.02			0.02	
S4-29	29/01/1986	0.0005	0.00005	0.00025	0.00025	0.0025	0.0075	2.5
S4-29	13/02/1986			0.04			0.16	

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-29	13/03/1986			0.02			0.14	
S4-29	17/04/1986			0.02			0.14	
S4-29	15/05/1986			0.02			0.12	
S4-29	28/05/1986	0.0007	0.00005	0.0016	0.00025	0.0025	0.0075	7
S4-29	12/06/1986			0.02			0.04	
S4-29	17/07/1986			0.02			0.08	
S4-29	15/08/1986			0.02			0.14	
S4-29	08/09/1986	0.0014	0.00005	0.00025	0.0005	0.0025	0.0075	3.1
S4-29	18/09/1986			0.02			0.06	
S4-29	03/10/1986			0.02			0.1	
S4-29	24/11/1986			0.06			0.14	
S4-29	15/12/1986			0.02			0.16	
S4-29	03/01/1987			0.02			0.02	
S4-29	15/02/1987			0.02			0.02	
S4-29	15/04/1987			0.02			0.02	
S4-29	05/05/1987			0.02			0.02	
S4-29	13/06/1987			0.02			0.02	
S4-29	17/07/1987	0.0005	0.00025	0.0005	0.001	0.0005	0.0005	
S4-29	24/07/1987			0.02			0.04	
S4-29	02/09/1987			0.02			0.02	
S4-29	30/10/1987			0.02			0.04	
S4-29	15/11/1987			0.02			0.02	
S4-29	15/12/1987			0.02			0.04	
S4-29	15/01/1991			0.06			0.08	
S4-29	15/02/1991			0.04			0.06	
S4-29	15/03/1991			0.02			0.08	
S4-29	27/04/1991			0.05			0.1	
S4-29	15/05/1991			0.02			0.16	
S4-29	24/06/1991			0.02			0.02	
S4-29	15/07/1991			0.02			0.04	
S4-29	25/08/1991			0.02			0.02	
S4-29	15/09/1991			0.02			0.02	
S4-29	04/11/1991			0.01			0.08	
S4-29	15/12/1991			0.04			0.08	
S4-29	20/02/1996			0.001			0.005	
S4-29	29/04/1996	0.1	0.005	0.0005	0.0025	0.01	0.0025	7
S4-29	30/05/1996	0.1	0.005	0.002	0.0025	0.01	0.0025	15
S4-29	30/06/1996	0.1	0.005	0.0005	0.0025	0.01	0.0025	2
S4-29	01/03/1997	0.0005	0.005	0.0005	0.0005	0.001	0.0025	3
S4-29	31/05/1997	0.0006	0.005	0.0005	0.0025	0.002	0.0025	2
S4-29	27/06/1997	0.0008	0.005	0.0005	0.0025	0.002	0.0025	4
S4-29	29/08/1997	0.0006	0.005	0.0005	0.0025	0.002	0.0025	2
S4-29	12/09/1997	0.0008	0.005	0.0005	0.0025	0.002	0.0025	4

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-29	29/09/1997	0.0007	0.005	0.0005	0.0025	0.002	0.0025	2
S4-29	10/10/1997	0.0003	0.005	0.0005	0.0025	0.002	0.005	5
S4-29	19/06/1998	0.0008	0.005	0.0005	0.0025	0.002	0.0025	4
S4-29	29/07/1998	0.0006	0.005	0.0005	0.0025	0.002	0.0025	4
S4-29	30/07/1998	0.0012	0.005	0.0005	0.0025	0.002	0.0025	6
S4-29	28/09/1998	0.001	0.005	0.0005	0.0025	0.001	0.0025	1.5
S4-29	31/05/1999	0.0008	0.005	0.0005	0.0025	0.002	0.0025	6
S4-29	30/06/1999	0.0017	0.005	0.0005	0.0025	0.003	0.005	11
S4-29	29/07/1999	0.1	0.005	0.005	0.0025	0.0025	0.005	3
S4-29	30/07/1999	0.0011	0.005	0.0005	0.0025	0.003	0.005	5
S4-29	27/09/1999	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	26/06/2000	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	26/10/2000	0.1	0.005	0.005	0.0025	0.0025	0.0025	6
S4-29	27/05/2001	0.1	0.01	0.01	0.05	0.05	0.005	3
S4-29	02/06/2001	0.1	0.01	0.01	0.05	0.05	0.005	11
S4-29	09/07/2001	0.1	0.01	0.01	0.05	0.05	0.006	4
S4-29	31/07/2001	0.0011	0.0002	0.001	0.001	0.05	0.006	4
S4-29	31/08/2001	0.2	0.01	0.01	0.05	0.05	0.005	3
S4-29	28/09/2001	0.2	0.01	0.01	0.05	0.05	0.01	39
S4-29	20/06/2002	0.1	0.005	0.005	0.0025	0.0025	0.0025	3
S4-29	22/07/2002	0.1	0.005	0.005	0.0025	0.0025	0.0025	5
S4-29	09/08/2002	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	07/09/2002	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	08/01/2003	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	12/02/2003	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	27/03/2003	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	08/04/2003	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	17/06/2003	0.1	0.005	0.005	0.0025	0.0025	0.0025	1.5
S4-29	29/07/2003	0.0008	0.005	0.005	0.0025	0.0025	0.0025	22
S4-29	04/05/2004	0.1		0.005	0.0025	0.0025	0.0091	3
S4-29	02/05/2005	0.1	0.005	0.005	0.025	0.025	0.0025	3.7
S4-29	12/06/2005	0.1	0.005	0.005	0.025	0.025	0.0025	8.3
S4-29	17/07/2005	0.00062	0.000025	0.00035	0.000113	0.00257	0.0031	3.5
S4-29	26/10/2005	0.0005	0.000025	0.00019	0.000025	0.00209	0.0041	1.5
S4-29	14/04/2006	0.00048	0.000025	0.00019	0.000025	0.0012	0.0034	1.5
S4-29	16/04/2006	0.00054	0.000025	0.00031	0.000063	0.00095	0.0036	1.5
S4-29	17/04/2006	0.0005	0.000025	0.00022	0.000025	0.00092	0.0036	1.5
S4-29	14/05/2006	0.001	0.000025	0.00041	0.000166	0.00207	0.0025	3.7
S4-29	20/05/2006	0.00105	0.000057	0.0008	0.000233	0.0022	0.0043	6.7
S4-29	07/06/2006	0.00075	0.000025	0.00781	0.000227	0.00284	0.0032	1.5
S4-29	09/07/2006	0.00069	0.000025	0.00034	0.000108	0.00252	0.0031	1.5
S4-29	13/10/2006	0.00081	0.000025	0.00043	0.000164	0.00289	0.0056	4.1
S4-29	05/11/2006	0.00045	0.000025	0.00035	0.000055	0.00209	0.0152	1.5

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-29	11/11/2006	0.00047	0.000025	0.00035	0.00224	0.00161	0.0066	1.5
S4-29	16/12/2006	0.00074	0.000025	0.00047	0.000025	0.00118	0.0057	1.5
S4-29	07/01/2007	0.00045	0.000059	0.0205	0.000025	0.00149	0.0069	1.5
S4-29	11/02/2007	0.00043	0.000025	0.0009	0.000025	0.00135	0.0046	1.5
S4-29	04/03/2007	0.00046	0.000025	0.00034	0.000025	0.00187	0.004	1.5
S4-29	18/03/2007	0.00041	0.000025	0.00027	0.000324	0.00115	0.0087	1.5
S4-29	07/04/2007	0.00047	0.000025	0.00067	0.000085	0.00126	0.0045	1.5
S4-29	06/05/2007	0.00177	0.00008	0.00088	0.000634	0.00323	0.0096	21.8
S4-29	03/06/2007	0.00132	0.000025	0.0005	0.000467	0.00301	0.0056	12
S4-29	01/07/2007	0.00065	0.000025	0.00033	0.000091	0.00265	0.0028	3
S4-29	05/08/2007	0.00142	0.000025	0.00061	0.000422	0.00293	0.0038	3.2
S4-29	02/09/2007	0.00085	0.000025	0.00037	0.000159	0.00281	0.0043	1.5
S4-29	07/10/2007	0.00063	0.000025	0.00033	0.00008	0.00224	0.0036	1.5
S4-29	04/11/2007	0.00054	0.000025	0.0003	0.000025	0.00194	0.0031	1.5
S4-29	11/11/2007	0.00052	0.000025	0.00028	0.000082	0.00168	0.004	1.5
S4-29	23/11/2007	0.0005	0.000025	0.00019	0.000025	0.00156	0.0051	1.5
S4-29	24/11/2007	0.00066	0.000025	0.00016	0.000025	0.00167	0.004	1.5
S4-29	25/11/2007	0.00054	0.000025	0.0002	0.000025	0.00172	0.0054	1.5
S4-29	26/11/2007	0.00049	0.000025	0.00016	0.000025	0.00176	0.0038	1.5
S4-29	02/12/2007	0.00047	0.000025	0.00027	0.000025	0.00157	0.0038	1.5
S4-29	09/12/2007	0.00044	0.000025	0.00015	0.000025	0.00156	0.0024	
S4-29	06/01/2008	0.00048	0.000025	0.00015	0.000025	0.00171	0.0036	1.5
S4-29	17/02/2008	0.0005	0.000025	0.0002	0.000055	0.00137	0.0031	1.5
S4-29	02/03/2008	0.00052	0.000025	0.00015	0.000025	0.00144	0.0035	1.5
S4-29	06/04/2008	0.00049	0.000025	0.00016	0.000025	0.00122	0.0031	1.5
S4-29	11/05/2008	0.00112	0.000051	0.0004	0.000261	0.00236	0.005	8.9
S4-29	15/06/2008	0.00067	0.000025	0.00037	0.000075	0.00275	0.0034	1.5
S4-29	17/06/2008	0.0006	0.000025	0.00039	0.00006	0.00242	0.0028	1.5
S4-29	13/07/2008	0.00075	0.000025	0.00074	0.000391	0.00355	0.0055	4.3
S4-29	10/08/2008	0.00077	0.000025	0.00034	0.000119	0.00276	0.0032	11.1
S4-29	28/09/2008	0.0005	0.000025	0.00027	0.000025	0.00316	0.0041	1.5
S4-29	12/10/2008	0.0005	0.000025	0.00047	0.000025	0.00292	0.0036	1.5
S4-29	02/11/2008	0.00044	0.000025	0.00013	0.000025	0.00198	0.0034	1.5
S4-29	07/12/2008	0.00049	0.000025	0.00075	0.000025	0.00181	0.0168	1.5
S4-29	04/01/2009	0.00047	0.000025	0.00043	0.000025	0.00159	0.0035	1.5
S4-29	15/02/2009	0.00046	0.000061	0.00095	0.000055	0.00157	0.0044	1.5
S4-29	08/03/2009	0.00042	0.000025	0.00026	0.000051	0.00135	0.0054	1.5
S4-29	19/04/2009	0.00041	0.000025	0.00018	0.000025	0.00127	0.0026	1.5
S4-29	10/05/2009	0.00117	0.000058	0.0007	0.000326	0.00264	0.0066	1.5
S4-29	14/06/2009	0.00078	0.000025	0.00063	0.000216	0.002	0.0035	1.5
S4-29	12/07/2009	0.00062	0.000025	0.00042	0.00013	0.00298	0.0053	1.5
S4-29	09/08/2009	0.00162	0.000025	0.0136	0.001	0.00299	0.0058	10
S4-29	20/09/2009	0.00056	0.000025	0.0003	0.000025	0.00217	0.002	1.5

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-29	11/10/2009	0.00052	0.000025	0.00023	0.000025	0.00265	0.0032	1.5
S4-29	22/11/2009	0.00042	0.000025	0.00028	0.000025	0.00193	0.0043	1.5
S4-29	13/12/2009	0.00042	0.000025	0.00024	0.000025	0.00162	0.0036	1.5
S4-29	03/01/2010	0.00045	0.000025	0.00024	0.000025	0.00162	0.0036	1.5
S4-29	14/02/2010	0.00046	0.000025	0.00030	0.000025	0.00151	0.0052	1.5
S4-29	07/03/2010	0.00045	0.000025	0.00015	0.000025	0.00131	0.0035	1.5
S4-29	11/04/2010	0.00043	0.000025	0.00025	0.000023	0.00133	0.0085	1.5
S4-29	16/05/2010	0.00039	0.000025	0.00025	0.000031	0.00123	0.0003	1.5
S4-29	13/06/2010	0.00057	0.000025	0.00025	0.000268	0.00297	0.0024	1.5
S4-29	27/06/2010	0.00037	0.000025	0.00079	0.000499	0.00297	0.0024	10.7
S4-29	11/07/2010	0.0012	0.000025	0.00079	0.000499	0.00354	0.0035	1.5
S4-29 S4-29	15/08/2010	0.00071	0.000025	0.00044	0.000136	0.00236	0.0023	24.4
S4-29	12/09/2010	0.00141	0.000025	0.00032		0.00334	0.0032	8.3
	19/09/2010		0.000025		0.000025		+	
S4-29 S4-29	+	0.0006		0.00038 0.00025	0.000078	0.00321	0.0036	1.5
	17/10/2010	0.00055	0.000025 0.000025		0.000073	0.00214	0.0037	1.5
S4-29	07/11/2010	0.00042	•	0.00025		0.00188	0.003	1.5
S4-29	05/12/2010	0.00046	0.000025	0.00025	0.000025	0.00177	0.0188	1.5
S4-29	02/01/2011	0.00045	0.000025	0.00025	0.000025	0.00143	0.0015	1.5
S4-29	03/01/2011	0.0005	0.000041	0.001	0.0005	0.004	0.004	1
S4-29	20/02/2011	0.00044	0.000025	0.00146	0.000252	0.00159	0.0041	1.5
S4-29	13/03/2011	0.00043	0.000025	0.00025	0.000025	0.00084	0.0015	1.5
S4-29	24/04/2011	0.001	0.000072	0.001	0.0005	0.003	0.004	1.5
S4-29	08/05/2011	0.001	0.00006	0.003	0.0005	0.004	0.004	1.5
S4-29	12/06/2011	0.0005	0.0000125	0.001	0.0005	0.004	0.005	1
S4-29	17/07/2011	0.002	0.000025	0.002	0.0005	0.01	0.013	8
S4-29	14/08/2011	0.0005	0.0000125	0.001	0.0005	0.005	0.005	0.5
S4-29	11/09/2011	0.001	0.0000125	0.001	0.003	0.007	0.008	0.5
S4-29	09/10/2011	0.0005	0.000032	0.001	0.0005	0.005	0.004	0.5
S4-29	06/11/2011	0.0005	0.000028	0.001	0.0005	0.005	0.006	1
S4-29	11/12/2011	0.00063	0.00004	0.0005	0.0001	0.002	0.006	0.5
S4-29	08/01/2012	0.0005	0.00004	0.001	0.00002	0.002	0.005	0.5
S4-29	12/02/2012	0.00025	0.00003	0.0005	0.000005	0.001	0.003	3
S4-29	04/03/2012	0.0006	0.00003	0.0005	0.000005	0.001	0.003	2
S4-33	T .		ı					
S4-33	29/04/1996	0.1	0.005	0.0005	0.025	0.01	0.0025	2
S4-33	30/05/1996	0.1	0.005	0.004	0.025	0.01	0.01	57
S4-33	30/06/1996	0.1	0.005	0.0005	0.025	0.01	0.0025	3
S4-33	01/03/1997	0.001	0.005	0.0005	0.0005	0.0005	0.0025	1
S4-33	31/05/1997	0.0013	0.005	0.001	0.025	0.002	0.0025	8
S4-33	27/06/1997	0.0014	0.005	0.001	0.025	0.001	0.0025	11
S4-33	29/08/1997	0.0016	0.005	0.0005	0.025	0.001	0.0025	9
S4-33	12/09/1997	0.0014	0.005	0.001	0.025	0.001	0.0025	11
S4-33	29/09/1997	0.0011	0.005	0.0005	0.025	0.001	0.0025	1.5

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-33	10/10/1997	0.0008	0.005	0.0005	0.025	0.002	0.0025	5
S4-33	19/06/1998	0.0008	0.005	0.004	0.025	0.002	0.007	8
S4-33	29/07/1998	0.0013	0.005	0.0005	0.025	0.002	0.0025	6
S4-33	30/07/1998	0.0027	0.005	0.0005	0.025	0.001	0.0025	9
S4-33	28/09/1998	0.0003	0.005	0.0005	0.025	0.002	0.0025	1.5
S4-33	31/05/1999	0.0007	0.005	0.0005	0.025	0.001	0.008	1.5
S4-33	30/06/1999	0.0024	0.005	0.002	0.025	0.002	0.0025	9
S4-33	29/07/1999	0.1	0.005	0.005	0.025	0.025	0.0025	1.5
S4-33	30/07/1999	0.0014	0.005	0.001	0.025	0.003	0.005	4
S4-33	27/09/1999	0.1	0.005	0.005	0.025	0.025	0.0025	1.5
S4-33	26/06/2000	0.1	0.005	0.005	0.025	0.025	0.0025	5
S4-33	26/10/2000	0.1	0.005	0.005	0.025	0.025	0.0025	1.5
S4-33	13/10/2006	0.0009	0.000025	0.00039	0.000064	0.00167	0.0037	1.5
S4-33	14/01/2007	0.00061	0.000025	0.00091	0.000025	0.00083	0.0023	1.5
S4-33	07/04/2007	0.0006	0.000025	0.00035	0.000025	0.00051	0.0011	1.5
S4-33	29/04/2007	0.00091	0.000025	0.00121	0.000162	0.00214	0.002	6.5
S4-33	13/05/2007	0.00126	0.000058	0.00102	0.000152	0.00137	0.0028	1.5
S4-33	03/06/2007	0.00278	0.000059	0.00264	0.000648	0.0024	0.0067	25.7
S4-33	07/06/2007	0.00301	0.000065	0.00591	0.00134	0.0106	0.0164	42.3
S4-33	01/07/2007	0.00132	0.000025	0.0006	0.000083	0.00144	0.0014	3.7
S4-33	02/09/2007	0.00141	0.000025	0.00036	0.000119	0.00177	0.0031	1.5
S4-33	09/09/2007	0.00116	0.000025	0.00063	0.00006	0.00812	0.0076	1.5
S4-33	02/12/2007	0.00063	0.000025	0.00039	0.000025	0.00095	0.0021	1.5
S4-33	17/02/2008	0.00069	0.000025	0.00067	0.000845	0.00078	0.0018	1.5
S4-33	02/03/2008	0.00066	0.000025	0.00041	0.000025	0.00076	0.0015	1.5
S4-33	06/04/2008	0.00071	0.000025	0.0004	0.000025	0.00065	0.0005	1.5
S4-33	10/08/2008	0.00223	0.000053	0.00224	0.000618	0.00935	0.0127	1.5
S4-33	11/09/2008	0.00139	0.000025	0.0007	0.000118	0.00869	0.0098	1.5
S4-33	02/10/2008	0.00122	0.000025	0.00088	0.000025	0.0103	0.01	1.5
S4-33	30/11/2008	0.00098	0.000025	0.00074	0.000074	0.0063	0.0066	3.9
S4-33	14/12/2008	0.00064	0.000025	0.00034	0.000025	0.00086	0.0034	1.5
S4-33	25/01/2009	0.00062	0.000025	0.0004	0.000025	0.00103	0.0013	1.5
S4-33	28/02/2009	0.00058	0.000025	0.00033	0.000025	0.00093	0.001	1.5
S4-33	15/03/2009	0.00061	0.000025	0.00045	0.000025	0.0008	0.0047	1.5
S4-33	12/04/2009	0.00081	0.000025	0.00069	0.000025	0.0008	0.0013	1.5
S4-33	28/05/2009	0.0036	0.00006	0.00436	0.000737	0.00284	0.0071	13.6
S4-33	22/06/2009	0.00134	0.000025	0.00119	0.000141	0.00804	0.0084	5.7
S4-33	19/07/2009	0.00326	0.000025	0.0001	0.000072	0.00025	0.0015	1.5
S4-33	11/08/2009	0.00425	0.000086	0.0035	0.00259	0.00864	0.0177	90
S4-33	05/09/2009	0.00157	0.000025	0.00056	0.000118	0.00743	0.0067	1.5
S4-33	09/10/2009	0.00082	0.00005	0.00051	0.00005	0.0085	0.0072	1.5
S4-33	21/11/2009	0.00057	0.000025	0.00061	0.000063	0.00117	0.0029	1.5
S4-33	24/01/2010	0.00065	0.000025	0.00026	0.000025	0.00089	0.0011	1.5

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-33	14/03/2010	0.00055	0.000025	0.00037	0.000025	0.00076	0.0015	1.5
S4-33	09/05/2010	0.001	0.000025	0.0005	0.000076	0.00085	0.0019	1.5
S4-33	13/06/2010	0.00108	0.000025	0.00132	0.000138	0.00214	0.0022	1.5
S4-33	18/07/2010	0.00165	0.000025	0.0005	0.000189	0.00175	0.0022	1.5
S4-33	22/08/2010	0.00143	0.000025	0.00063	0.000141	0.00252	0.0031	1.5
S4-33	12/09/2010	0.00105	0.000025	0.00035	0.000025	0.00234	0.0016	1.5
S4-33	26/09/2010	0.0008	0.000025	0.00058	0.000072	0.00964	0.0083	1.5
S4-33	17/10/2010	0.00086	0.000025	0.00025	0.000072	0.00146	0.0015	1.5
S4-33	07/11/2010	0.00065	0.000025	0.00025	0.000025	0.00124	0.0015	1.5
S4-33	19/12/2010	0.0006	0.000025	0.00025	0.000025	0.00083	0.0015	1.5
S4-33	09/01/2011	0.00065	0.000025	0.00025	0.000025	0.00082	0.0015	1.5
S4-33	27/02/2011	0.00052	0.000025	0.00056	0.000025	0.00181	0.0015	1.5
S4-33	24/04/2011	0.001	0.000025	0.001	0.0005	0.0015	0.0015	1.5
S4-33	09/05/2011	0.001	0.000032	0.001	0.0005	0.0015	0.0015	2
S4-33	22/05/2011	0.002	0.000043	0.001	0.0005	0.005	0.01	21
S4-33	12/06/2011	0.001	0.000032	0.001	0.0005	0.004	0.004	5
S4-33	10/07/2011	0.001	0.000025	0.001	0.0005	0.0015	0.008	3
S4-33	31/07/2011	0.002	0.000063	0.003	0.0005	0.008	0.014	47
S4-33	14/08/2011	0.001	0.0000125	0.001	0.0005	0.004	0.004	2
S4-33	11/09/2011	0.001	0.000035	0.001	0.0005	0.013	0.013	0.5
S4-33	09/10/2011	0.0005	0.000041	0.001	0.0005	0.005	0.003	10
S4-33	06/11/2011	0.0005	0.000034	0.001	0.0005	0.004	0.004	1
S4-33	11/12/2011	0.00063	0.00003	0.0005	0.00003	0.001	0.002	0.5
S4-33	08/01/2012	0.0007	0.00004	0.001	0.00004	0.001	0.005	1
S4-33	12/02/2012	0.0006	0.00004	0.003	0.000005	0.0005	0.004	4
S4-33	04/03/2012	0.0006	0.00003	0.0005	0.000005	0.0005	0.002	0.5
S4-5								
S4-5	31/03/1982	0.005	0.005	0.04	0.025	0.025	0.005	130
S4-5	15/06/1982	0.005		0.1	0.025	0.025	0.72	40
S4-5	06/07/1982	0.0005	0.0005	0.004	0.0005	0.0025	0.0035	24
S4-5	22/09/1982	0.0005	0.0005	0.0005	0.001	0.031	0.011	110
S4-5	06/10/1982	0.0005	0.0001	0.0005	0.00025	0.0005	0.014	78
S4-5	29/10/1982			0.01	0.025	0.01		0.5
S4-5	26/11/1982			0.01	0.02	0.01		1
S4-5	10/12/1982	0.0005	0.00021	0.0005	0.00023	0.00125	0.009	110
S4-5	31/12/1982			0.01	0.02	0.01		2
S4-5	28/01/1983			0.01	0.02	0.01		1
S4-5	22/02/1983	0.001	0.00005	0.00025	0.00025	0.0005	0.0025	110
S4-5	28/02/1983			0.01	0.02	0.01		0.5
S4-5	25/03/1983			0.01	0.02	0.04		0.5
S4-5	29/04/1983			0.01	0.02	0.01		7
S4-5	27/05/1983			0.01	0.02	0.01		6
S4-5	15/06/1983	0.0005	0.0001	0.002	0.0001	0.001	0.008	47

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-5	24/06/1983			0.01	0.04	0.02		24
S4-5	29/07/1983			0.02	0.04	0.01		11
S4-5	26/08/1983			0.01	0.02	0.01		
S4-5	31/08/1983	0.0041	0.000025	0.0006	0.00005	0.0005	0.0025	65
S4-5	30/09/1983			0.01	0.02	0.01		0.5
S4-5	24/11/1983	0.0011	0.00005	0.001	0.00005	0.0055	0.005	110
S4-5	25/11/1983			0.01				
S4-5	30/12/1983			0.01				
S4-5	24/02/1984			0.01				
S4-5	25/02/1984	0.0005	0.00005	0.0042	0.0005	0.0005	0.021	120
S4-5	04/07/1984	0.0005	0.00005	0.0012	0.0002	0.0005	0.005	42
S4-5	18/01/1985			0.02			0.02	
S4-5	15/03/1985			0.02			0.04	
S4-5	30/03/1985			0.02				
S4-5	12/04/1985			0.02			0.02	
S4-5	24/04/1985	0.0005	0.00005	0.001	0.00005	0.005	0.01	117
S4-5	27/04/1985			0.02				
S4-5	17/05/1985			0.02			0.02	
S4-5	14/06/1985			0.02			0.02	
S4-5	28/06/1985			0.01				
S4-5	12/07/1985			0.02			0.02	
S4-5	15/08/1985	0.0005	0.0002	0.001		0.005	0.0075	32
S4-5	16/08/1985			0.02			0.02	
S4-5	30/08/1985			0.01				
S4-5	13/09/1985			0.02			0.02	
S4-5	27/09/1985			0.01				
S4-5	18/10/1985			0.02			0.02	
S4-5	15/11/1985			0.02			0.02	
S4-5	13/12/1985			0.02			0.02	
S4-5	16/01/1986			0.02			0.04	
S4-5	29/01/1986	0.0005	0.00005	0.00025	0.00025	0.0025	0.0075	8.69
S4-5	13/02/1986			0.02			0.16	
S4-5	13/03/1986			0.02			0.12	
S4-5	17/04/1986			0.04			0.14	
S4-5	15/05/1986			0.02			0.1	
S4-5	28/05/1986	0.0009	0.0008	0.0072	0.0011	0.0025	0.0075	16
S4-5	12/06/1986			0.02			0.06	
S4-5	17/07/1986			0.02			0.1	
S4-5	15/08/1986			0.02			0.18	
S4-5	08/09/1986	0.0063	0.00005	0.00025	0.0005	0.0025	0.0075	1.5
S4-5	18/09/1986			0.02			0.06	
S4-5	03/10/1986			0.02			0.1	
S4-5	24/11/1986			0.02			0.02	

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-5	15/12/1986			0.02			0.16	
S4-5	03/01/1987			0.02			0.02	
S4-5	15/02/1987			0.02			0.02	
S4-5	15/04/1987			0.04			0.02	
S4-5	05/05/1987			0.02			0.06	
S4-5	13/06/1987			0.02			0.02	
S4-5	17/07/1987	0.001	0.00025	0.0005	0.002	0.002	0.0005	5
S4-5	24/07/1987			0.02			0.04	
S4-5	02/09/1987			0.02			0.02	
S4-5	30/10/1987			0.02			0.02	
S4-5	15/11/1987			0.02			0.02	
S4-5	15/12/1987			0.02			0.02	
S4-5	15/01/1991			0.02			0.12	
S4-5	15/02/1991			0.02			0.08	
S4-5	15/03/1991			0.02			0.08	
S4-5	27/04/1991			0.05			0.12	
S4-5	15/05/1991			0.02			0.01	
S4-5	24/06/1991			0.02			0.04	
S4-5	15/07/1991			0.02			0.04	
S4-5	25/08/1991			0.02			0.02	
S4-5	04/11/1991			0.01			0.12	
S4-5	15/12/1991			0.04			0.08	
S4-5	20/02/1996			0.001			0.005	
S4-5	29/04/1996	0.1	0.005	0.002	0.025	0.01	0.0025	15
S4-5	30/05/1996	0.1	0.005	0.004	0.025	0.01	0.006	39
S4-5	30/06/1996	0.1	0.005	0.0005	0.025	0.01	0.0025	4
S4-5	01/03/1997	0.0005	0.005	0.0005	0.0005	0.0005	0.006	1
S4-5	31/05/1997	0.0008	0.005	0.001	0.025	0.002	0.0025	5
S4-5	27/06/1997	0.0009	0.005	0.002	0.025	0.001	0.007	8
S4-5	29/08/1997	0.0009	0.005	0.0005	0.025	0.002	0.0025	3
S4-5	12/09/1997	0.0009	0.005	0.002	0.025	0.001	0.007	8
S4-5	29/09/1997	0.0006	0.005	0.0005	0.025	0.001	0.0025	0.5
S4-5	10/10/1997	0.0008	0.005	0.0005	0.025	0.002	0.005	10
S4-5	19/06/1998	0.0008	0.005	0.0005	0.025	0.002	0.0025	3
S4-5	29/07/1998	0.0007	0.005	0.0005	0.025	0.002	0.0025	5
S4-5	30/07/1998	0.0013	0.005	0.0005	0.025	0.002	0.0025	6
S4-5	28/09/1998	0.0004	0.005	0.005	0.025	0.002	0.0025	0.5
S4-5	31/05/1999	0.0006	0.005	0.005	0.025	0.002	0.0025	1.5
S4-5	30/06/1999	0.002	0.005	0.0005	0.025	0.002	0.0025	6
S4-5	29/07/1999	0.1	0.005	0.005	0.025	0.025	0.0025	1.5
S4-5	30/07/1999	0.0016	0.005	0.001	0.025	0.003	0.005	11
S4-5	27/09/1999	0.1	0.005	0.005	0.025	0.025	0.0025	1.5
S4-5	26/06/2000	0.1	0.005	0.005	0.025	0.025	0.0025	1.5

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-5	26/10/2000	0.1	0.005	0.005	0.025	0.025	0.0025	3
S4-5	31/05/2001	0.2	0.01	0.01	0.05	0.05	0.005	14
S4-5	11/06/2001	0.2	0.01	0.01	0.05	0.05	0.013	46
S4-5	09/07/2001	0.2	0.01	0.01	0.05	0.05	0.005	11
S4-5	03/08/2001	0.0021	0.0002	0.001	0.001	0.05	0.005	6
S4-5	31/08/2001	0.2	0.01	0.01	0.05	0.05	0.005	4
S4-5	28/09/2001	0.2	0.01	0.01	0.05	0.05	0.005	11
S4-5	20/06/2002	0.1	0.005	0.005	0.025	0.025	0.0025	10
S4-5	22/07/2002	0.1	0.005	0.005	0.025	0.025	0.0025	4
S4-5	09/08/2002	0.1	0.005	0.005	0.025	0.025	0.0025	7
S4-5	07/09/2002	0.1	0.005	0.005	0.025	0.025	0.0025	17
S4-5	08/01/2003	0.1	0.005	0.005	0.025	0.025	0.0025	1.5
S4-5	12/02/2003	0.1	0.005	0.005	0.025	0.025	0.0025	1.5
S4-5	27/03/2003	0.1	0.005	0.005	0.025	0.025	0.0025	10
S4-5	08/04/2003	0.1	0.005	0.005	0.025	0.025	0.0025	1.5
S4-5	17/06/2003	0.1	0.005	0.005	0.025	0.025	0.0025	8
S4-5	29/07/2003	0.0014	0.005	0.005	0.025	0.025	0.0025	10
S4-5	04/05/2004	0.1		0.005	0.025	0.025	0.0025	8.5
S4-5	12/06/2005	0.1	0.005	0.005	0.025	0.025	0.0025	9.9
S4-5	17/07/2005	0.00174	0.000053	0.00185	0.000369	0.00193	0.0035	3
S4-5	26/10/2005	0.00076	0.000025	0.0003	0.000025	0.00118	0.0025	1.5
S4-5	14/04/2006	0.00073	0.000025	0.00179	0.000176	0.00068	0.0023	1.5
S4-5	16/04/2006	0.00074	0.000025	0.00161	0.00012	0.00025	0.0019	1.5
S4-5	17/04/2006	0.00075	0.000025	0.00058	0.000051	0.00025	0.0019	1.5
S4-5	14/05/2006	0.00167	0.000025	0.00697	0.0002	0.00154	0.002	10.4
S4-5	20/05/2006	0.00157	0.000025	0.00245	0.00033	0.00158	0.0049	9.3
S4-5	07/06/2006	0.00125	0.000025	0.0117	0.000215	0.00197	0.003	11.2
S4-5	09/07/2006	0.0016	0.000025	0.00065	0.000152	0.00173	0.0022	1.5
S4-5	13/10/2006	0.00086	0.000025	0.0146	0.000025	0.0014	0.002	1.5
S4-5	05/11/2006	0.00073	0.000025	0.00063	0.000059	0.00153	0.0027	1.5
S4-5	11/11/2006	0.0007	0.000025	0.00325	0.000025	0.00099	0.0033	1.5
S4-5	16/12/2006	0.0006	0.000025	0.00033	0.000025	0.00107	0.0019	5.5
S4-5	07/01/2007	0.00125	0.000062	0.00163	0.000254	0.00128	0.0101	5
S4-5	11/02/2007	0.00064	0.000025	0.0521	0.000025	0.00078	0.0037	1.5
S4-5	04/03/2007	0.00063	0.000025	0.00109	0.000148	0.00126	0.0028	1.5
S4-5	18/03/2007	0.00063	0.000025	0.0003	0.000025	0.0008	0.0018	1.5
S4-5	07/04/2007	0.00062	0.000025	0.00022	0.000025	0.00075	0.0014	1.5
S4-5	06/05/2007	0.00118	0.000025	0.00301	0.000143	0.0014	0.0033	5.1
S4-5	03/06/2007	0.00279	0.000025	0.00252	0.000743	0.0025	0.007	25.3
S4-5	01/07/2007	0.00168	0.000025	0.0008	0.000158	0.00137	0.0021	4.3
S4-5	05/08/2007	0.00236	0.000025	0.00134	0.000482	0.00207	0.0055	7.2
S4-5	02/09/2007	0.00137	0.000025	0.00048	0.000105	0.00164	0.0022	1.5
S4-5	07/10/2007	0.00082	0.000025	0.00038	0.00006	0.00156	0.0017	1.5

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

esent		Arsenic	Cadmium	Copper	Lead	Nickel	Zinc	TSS
Station	Date Sampled	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
S4-5	04/11/2007	0.00078	0.000025	0.00022	0.000025	0.00116	0.0015	1.5
S4-5	11/11/2007	0.00074	0.000025	0.00036	0.000025	0.00093	0.0019	1.5
S4-5	23/11/2007	0.00081	0.000025	0.00023	0.000025	0.00105	0.0019	1.5
S4-5	24/11/2007	0.00077	0.000025	0.00022	0.000025	0.00105	0.002	1.5
S4-5	25/11/2007	0.00085	0.000025	0.00053	0.000111	0.00101	0.0036	1.5
S4-5	26/11/2007	0.00081	0.000025	0.00025	0.000025	0.00097	0.0018	1.5
S4-5	02/12/2007	0.0007	0.000025	0.00029	0.000025	0.00091	0.0026	1.5
S4-5	06/01/2008	0.00083	0.000025	0.00022	0.000025	0.00101	0.0033	1.5
S4-5	17/02/2008	0.00074	0.000025	0.00092	0.000051	0.00086	0.0022	1.5
S4-5	02/03/2008	0.00071	0.000025	0.00036	0.000025	0.00082	0.0016	1.5
S4-5	06/04/2008	0.00089	0.000025	0.00031	0.000025	0.00083	0.0017	1.5
S4-5	11/05/2008	0.00128	0.000025	0.00115	0.000127	0.0016	0.0029	5.6
S4-5	15/06/2008	0.00115	0.000025	0.00069	0.000148	0.00161	0.002	1.5
S4-5	17/06/2008	0.00127	0.000025	0.00081	0.000117	0.00175	0.0024	1.5
S4-5	13/07/2008	0.0017	0.000025	0.00161	0.000476	0.0023	0.0035	6.3
S4-5	10/08/2008	0.00213	0.000025	0.00113	0.000278	0.00225	0.0055	33.8
S4-5	28/09/2008	0.00086	0.000025	0.00065	0.000077	0.00216	0.0033	1.5
S4-5	12/10/2008	0.00088	0.000025	0.00034	0.000025	0.00194	0.0021	1.5
S4-5	02/11/2008	0.0007	0.000025	0.00031	0.000025	0.00141	0.0026	1.5
S4-5	07/12/2008	0.0008	0.000025	0.00038	0.000025	0.00118	0.0022	1.5
S4-5	04/01/2009	0.00074	0.000025	0.00045	0.000025	0.00095	0.0017	5.5
S4-5	15/02/2009	0.0007	0.000025	0.00035	0.000025	0.00067	0.0018	1.5
S4-5	08/03/2009	0.00062	0.000025	0.00027	0.000025	0.00071	0.0014	1.5
S4-5	19/04/2009	0.00072	0.000025	0.00037	0.000025	0.00099	0.0005	1.5
S4-5	10/05/2009	0.00128	0.000063	0.00254	0.000199	0.00191	0.0045	6.9
S4-5	14/06/2009	0.00154	0.000025	0.00254	0.000315	0.0015	0.0005	7
S4-5	12/07/2009	0.00283	0.000025	0.00185	0.000535	0.00213	0.0067	12
S4-5	09/08/2009	0.003	0.000025	0.00126	0.000483	0.00203	0.0042	10
S4-5	20/09/2009	0.00134	0.000025	0.0005	0.000114	0.00189	0.0025	1.5
S4-5	11/10/2009	0.00081	0.000025	0.0004	0.000025	0.00163	0.0017	1.5
S4-5	22/11/2009	0.00063	0.000025	0.00031	0.000025	0.00113	0.0026	1.5
S4-5	13/12/2009	0.00079	0.000025	0.00034	0.000025	0.00106	0.0017	1.5
S4-5	03/01/2010	0.00065	0.000025	0.0003	0.000025	0.0009	0.0021	1.5
S4-5	14/02/2010	0.00062	0.000025	0.00026	0.000025	0.00089	0.0022	1.5
S4-5	07/03/2010	0.00068	0.000025	0.00025	0.000025	0.0009	0.0017	1.5
S4-5	11/04/2010	0.00063	0.000025	0.00028	0.000025	0.001	0.0021	1.5
S4-5	16/05/2010	0.00113	0.000025	0.00025	0.000083	0.00094	0.0013	1.5
S4-5	13/06/2010	0.00108	0.000025	0.00128	0.000177	0.00208	0.0022	12.9
S4-5	27/06/2010	0.00413	0.000057	0.00532	0.00144	0.00336	0.0084	17.3
S4-5	11/07/2010	0.00166	0.000025	0.00077	0.000248	0.00182	0.0026	1.5
S4-5	15/08/2010	0.00211	0.000025	0.00081	0.000375	0.00206	0.0031	9.8
S4-5	12/09/2010	0.00101	0.000025	0.00035	0.000025	0.00223	0.0014	1.5
S4-5	19/09/2010	0.00088	0.000025	0.0004	0.000025	0.00206	0.0021	3.1

Table 5: Concentrations of Selected Water Licence Parameters in Flat River Surface Waters, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-5	17/10/2010	0.00078	0.000025	0.00025	0.000025	0.00144	0.0015	1.5
S4-5	07/11/2010	0.00071	0.000025	0.00025	0.000025	0.00131	0.0015	3
S4-5	05/12/2010	0.00121	0.000025	0.00092	0.000129	0.00121	0.0015	3.5
S4-5	02/01/2011	0.00079	0.000025	0.00025	0.000055	0.00085	0.0015	1.5
S4-5	03/01/2011	0.001	0.000035	0.001	0.0005	0.0015	0.008	0.5
S4-5	20/02/2011	0.0006	0.000025	0.00025	0.000025	0.00074	0.0015	1.5
S4-5	13/03/2011	0.00069	0.000025	0.00025	0.000025	0.00053	0.0015	1.5
S4-5	24/04/2011	0.001	0.0000125	0.001	0.0005	0.0015	0.0015	2
S4-5	07/05/2011	0.001	0.000035	0.001	0.0005	0.0015	0.0015	4
S4-5	08/05/2011	0.001	0.000035	0.002	0.0005	0.0015	0.0015	4
S4-5	12/06/2011	0.002	0.000047	0.003	0.0005	0.004	0.006	2
S4-5	17/07/2011	0.002	0.000027	0.001	0.0005	0.0015	0.005	6
S4-5	14/08/2011	0.001	0.0000125	0.001	0.0005	0.003	0.004	1
S4-5	11/09/2011	0.001	0.000068	0.003	0.0005	0.005	0.007	5
S4-5	09/10/2011	0.0005	0.000035	0.001	0.0005	0.004	0.003	0.5
S4-5	06/11/2011	0.0005	0.000043	0.001	0.0005	0.004	0.005	1
S4-5	11/12/2011	0.00088	0.00004	0.001	0.00008	0.001	0.0025	0.5
S4-5	08/01/2012	0.0007	0.00004	0.001	0.00002	0.001	0.0025	2
S4-5	12/02/2012	0.0009	0.00004	0.0005	0.000005	0.0005	0.003	2
S4-5	04/03/2012	0.0005	0.00003	0.001	0.000005	0.0005	0.002	0.5

4.3.1 Arsenic

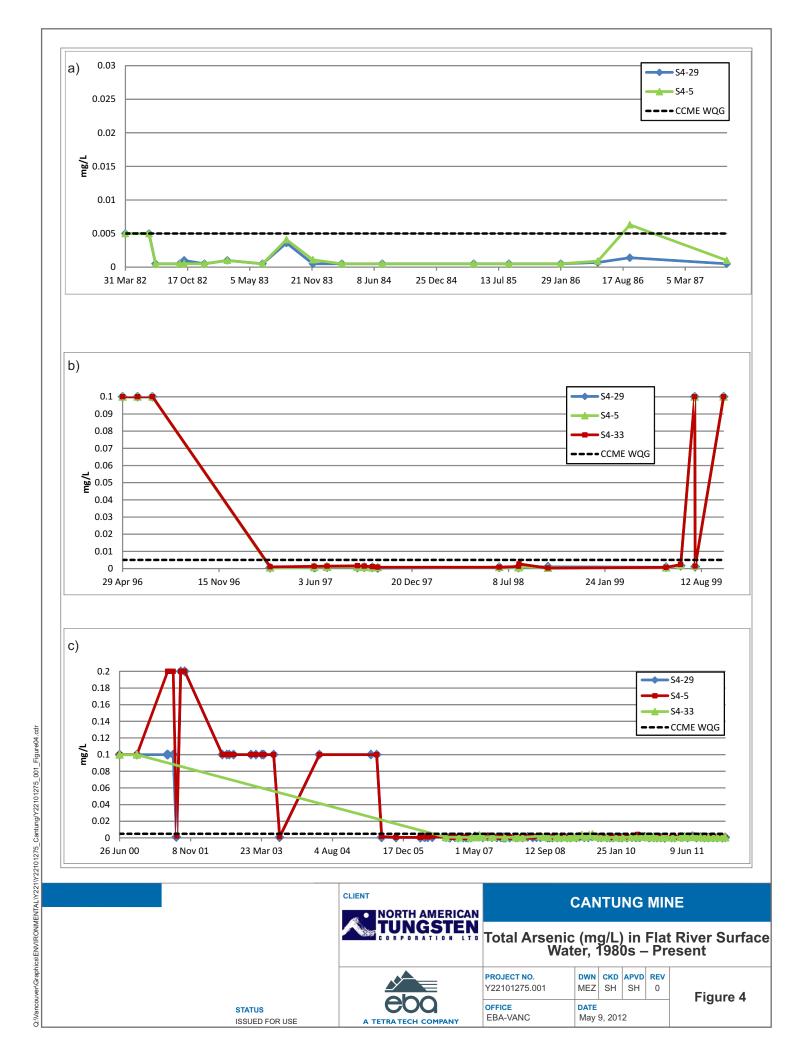
Figure 4 and Table 5 present all of the available data for total arsenic, for the period of record as contained in the FULCRUM database. As indicated in this figure, during the 1980s, when the then Canada Tungsten Mine was operational (1982 to mid-1986), total arsenic concentrations in the surface waters at the two Flat River sites being sampled at that time (S4-29, S4-5) were consistently below the current CCME guideline value of 0.005 mg/l. The only exception recorded was a single measurement of 0.0063 mg/l at S4-5 of 0.0063 mg/l on September 8, 1986.

During the 1990s, when the Canada Tungsten mine was closed and in a state of care and maintenance, total arsenic concentrations in the surface waters at the three Flat River sites sampled at that time (S4-29, S4-5 and S4-33) remained consistently below the current CCME guideline value of 0.005 mg/l, with the exception of three records in 1996 and two records in 1999 when total arsenic values of 0.1 mg/l were recorded at all three sites.

The mine was re-opened as the Cantung Mine in December 2001 and closed two years later (December 2003). This was followed by a phased re-opening that extended from July to September 2005. Mining operations continued through to October 2009 when operations were again suspended to October 2010. The mine has continued to operate since that time.

During the period June 2000 to August 2004, surface water total arsenic concentrations of 0.1 mg/l were recorded on a number of occasions at both S4-29 (upstream background) and S4-5 (directly below the mine infrastructure). The highest concentrations of total arsenic (0.2 mg/l) measured in the surface waters for the entire period of record were recorded on two occasions at S4-29 (October 31 and September 28 2001) and on five occasions at S4-5 (May 05 to September 28, 2001).

Since 2005, when improved QA/QC procedures were implemented by NATCL, total arsenic concentrations in the surface waters of the Flat River at all three sampling stations (S4-29, S4-5 and S4-33) have consistently remained well below (typically one magnitude below) the CCME guideline value of 0.005 mg/l.

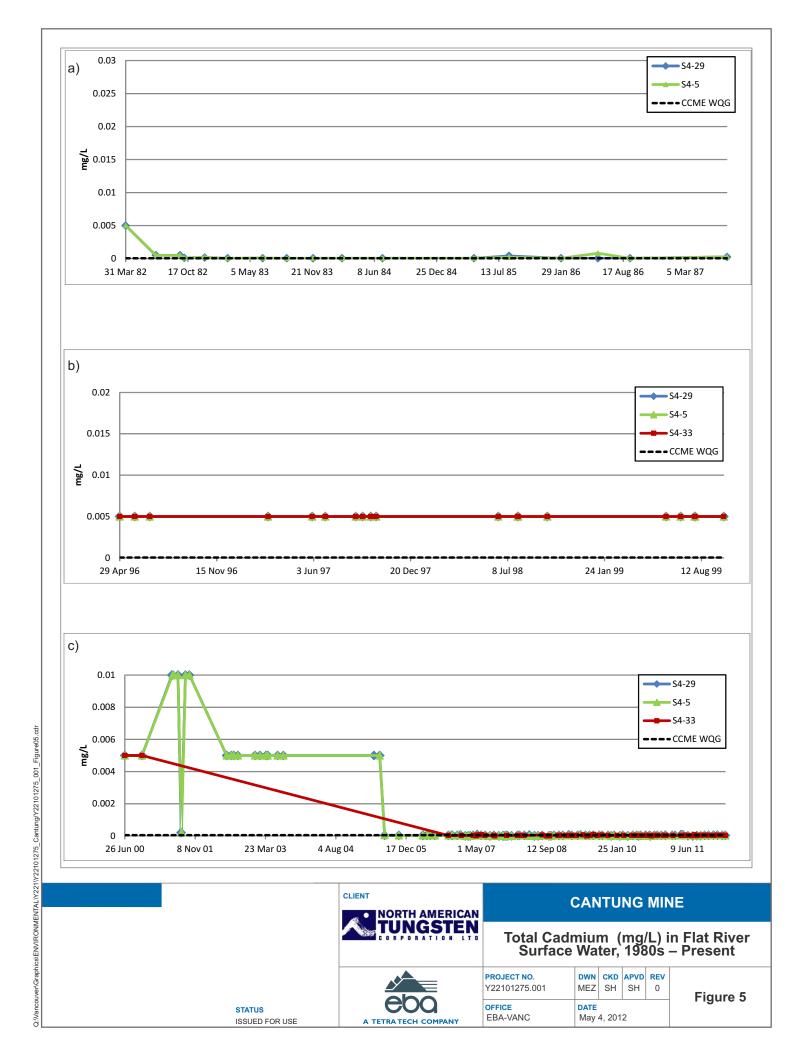


4.3.2 Cadmium

Figure 5 and Table 5 present all of the available data for total cadmium, for the period of record contained in the FULCRUM database. As indicated in this figure, during the 1980s, total cadmium concentrations in the surface waters at the two Flat River sites sampled at that time (S4-29, S4-5) were consistently at the limits of detection, ranging from 0.0005 to 0.005 mg/l, compared with the current CCME guideline value for total cadmium in surface water of 0.00005 mg/l.

During the 1990s, when the Canada Tungsten mine was closed and in a state of care and maintenance, total cadmium concentrations in the surface waters at the three Flat River sites being sampled at that time (S4-29, S4-5 and S4-33) consistently remained around the detection limit used (0.005 mg/l).

During the period May27 to September 28, 2001, prior to mine re-opening, total cadmium concentrations of 0.01 mg/l were recorded on five occasions at S4-29 (upstream background) and S4-5 (directly below the mine infrastructure). The cause of these marginally increased values is unknown. Since 2005, when improved QA/QC procedures were implemented by NATCL, total cadmium concentrations in the surface waters of the Flat River at all three sampling stations (S4-29, S4-5 and S4-33) have consistently remained at or below the CCME guideline value of 0.00005 mg/l.



4.3.3 Copper

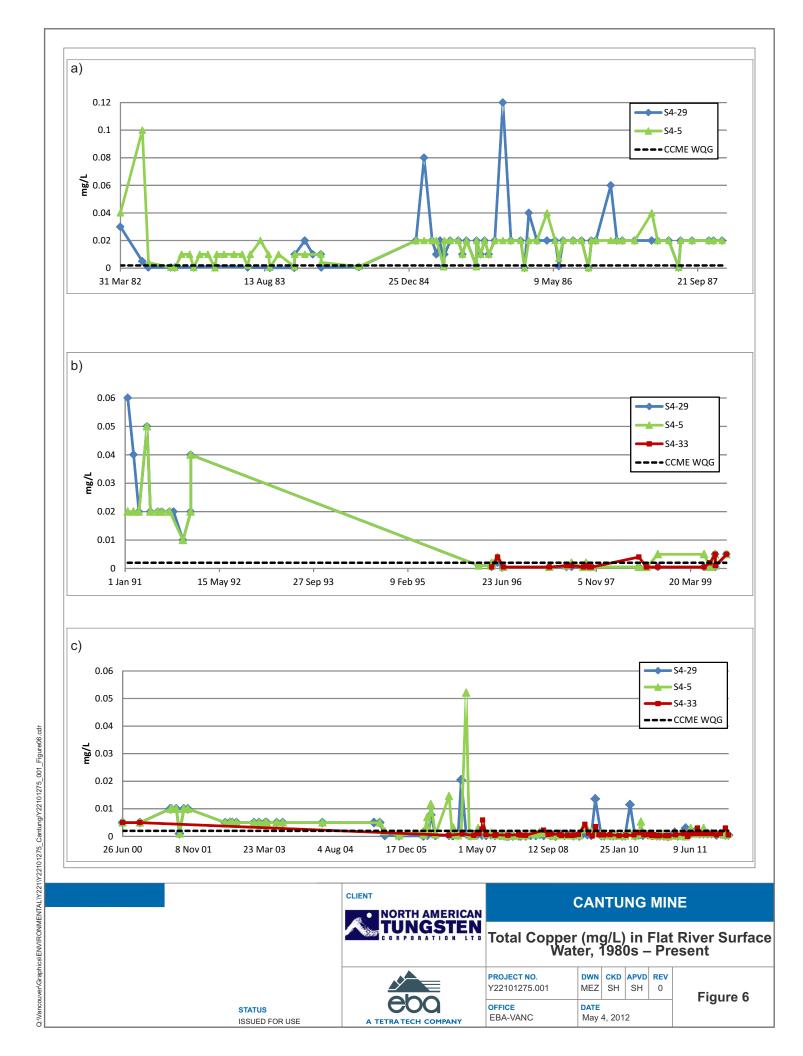
Figure 6 and Table 5 present all of the available data for total copper, for the period of record as contained in the FULCRUM database. In addition, as previously indicated, for total copper the additional data reported by DIAND (2001) were imported into the ESdat database and incorporated into Figure 6 and Table 5. As indicated in Figure 6, during the 1980s, when the then Canada Tungsten Mine was operational (1982 to mid-1986), total copper concentrations in the surface waters at the two Flat River sites being sampled at that time (S4-29, S4-5) were consistently at or below 0.02 mg/l and commonly below the current CCME guideline value of 0.002 mg/l.

Four main exceptions to this general observation were noted in the DIAND (2001) data that were incorporated into the ESdat database. These included three slightly elevated total copper results (0.12, 0.08 and 0.06 mg/l) reported for S4-29 (upstream background) in 1985 and 1986, and one total copper result (0.10 mg/l) reported for S4-5 (directly downstream of mine infrastructure) in June, 1982.

During the 1990s, when the Canada Tungsten mine was closed and in a state of care and maintenance, total copper concentrations in the surface waters at the three Flat River sites sampled at that time (S4-29, S4-5 and S4-33) continued to generally remain at or below 0.02 mg/l through to the end of 1991, when data were unavailable until 1996. The most notable minor exceptions to this general observation were two results (0.06 and 0.04 mg/l) that were recorded at S4-29 (upstream background) in January and February, 1991, and two results (0.05 and 0.04 mg/l) recorded at S4-5 in May and December, 1991. During the period February 1996 to September 1999, total copper concentrations recorded were generally at or below the current CCME guideline value of 0.002 mg/l.

The mine was re-opened as the Cantung Mine in December 2001 and closed two years later (December 2003). This was followed by a phased re-opening that extended from July to September 2005. Mining operations continued through to October 2009 when operations were again suspended to October 2010. The mine has continued to operate since that time.

During the period of June 2000 to August 2004, surface water total copper concentrations recorded at all three Flat River surface water quality stations were generally at or below 0.01 mg/l and after mid-May, 2005, when improved QA/QC procedures were implemented by NATCL, total copper concentrations have generally remained at or below the CCME guideline value of 0.002 mg/l. The only exception to this general trend was a single isolated reading of 0.05 mg/l that was recorded at S4-5 in February 2007.

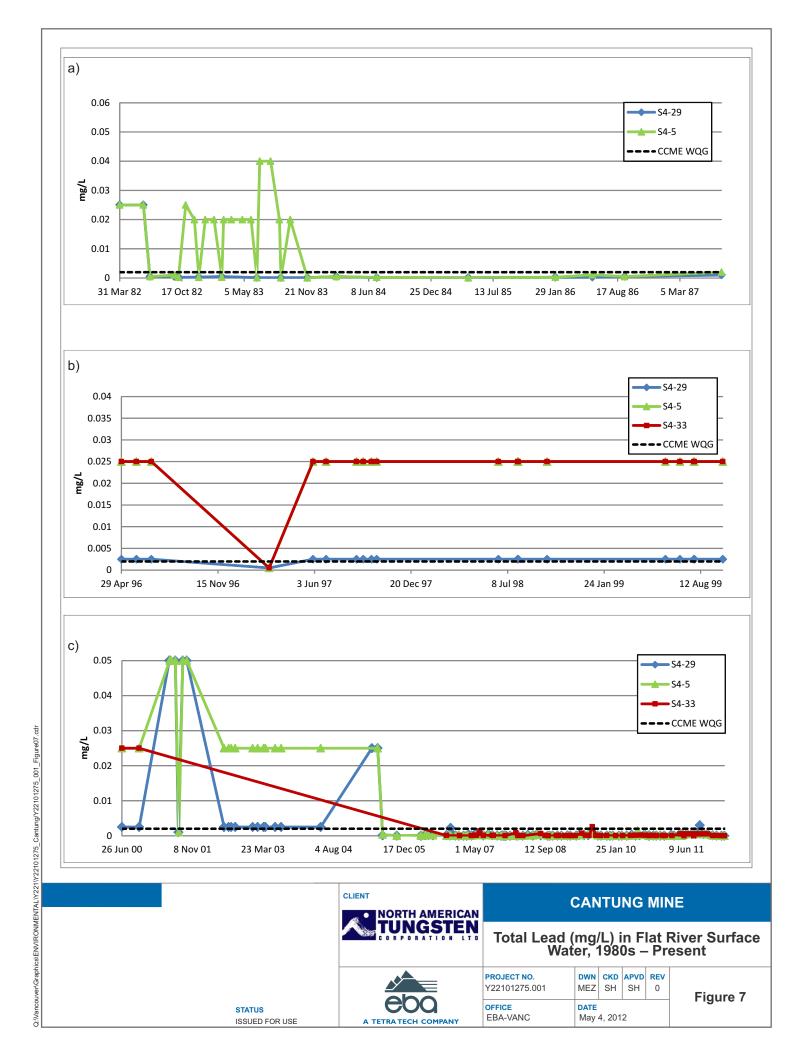


4.3.4 Lead

Figure 7 and Table 5 present all of the available data for total lead, for the period of record contained in the FULCRUM database. As indicated in this figure, during the 1980s, total lead concentrations in the surface waters at the two Flat River sites sampled at that time (S4-29, S4-5) were generally at or below the current CCME guideline value of 0.002 mg/l. The main exceptions to this general trend occurred during the period October 1982 to September 1983, when nine total lead values of 0.02 mg/l and two values of 0.04 mg/l were recorded at S4-5 located directly downstream of the mine. These results were interspersed with six other results that were below 0.00025 mg/l.

During the 1990s, when the Canada Tungsten mine was closed and in a state of care and maintenance, total lead concentrations in the surface waters of the Flat River at S4-29 (upstream background) were consistently at or below the current CCME guideline value of 0.0002 mg/l. However, at both S4-5 and S4-33 the total lead concentrations were generally higher at 0.025 mg/l.

The highest concentrations of lead in the surface waters of the Flat River for the entire period of record occurred between May and September 2001, when five elevated measurements of 0.05 mg/l were recorded at both S4-29 (upstream background) and S4-5. Slightly elevated levels of total lead continued to be recorded, primarily at S4-5 until June 2005. Following the implementation of improved QA/QC procedures by NATCL in July 2005, total lead concentrations at all three Flat River stations dropped to well below the current CCME guideline value of 0.002 mg/l. Since that time, total lead concentrations have generally remained at or below the CCME guideline value of 0.002 mg/l.

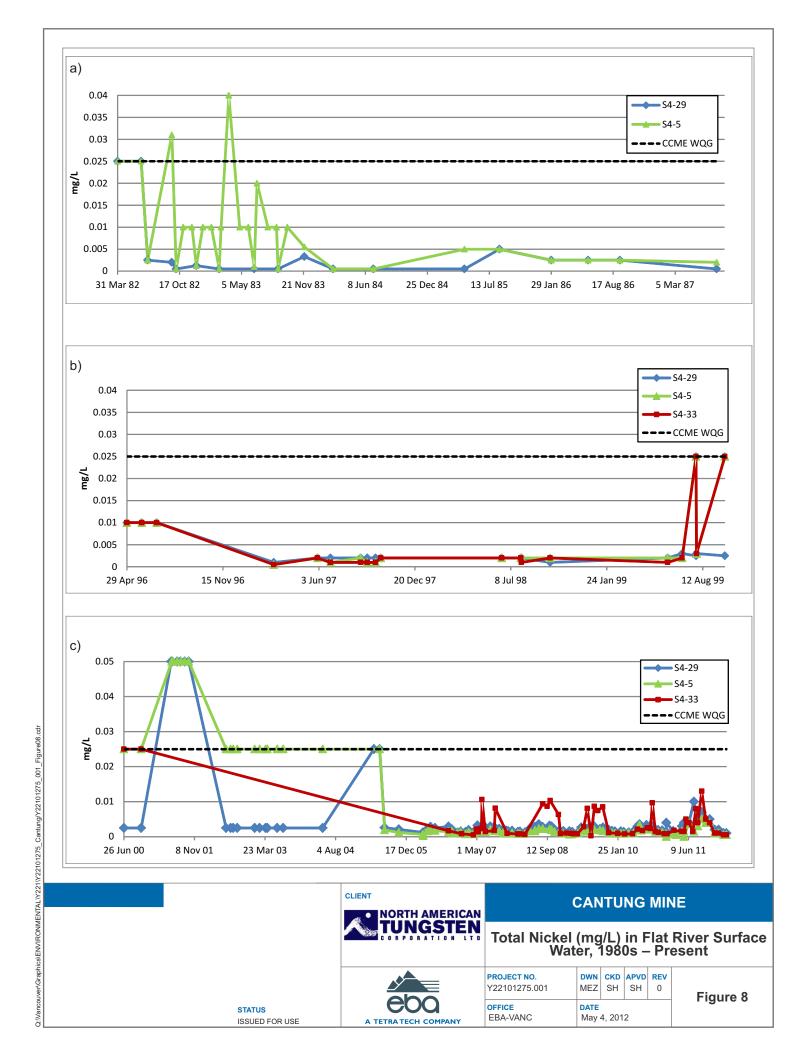


4.3.5 Nickel

Figure 8 and Table 5 present all of the available data for total nickel, for the period of record contained in the FULCRUM database. As indicated in this figure, for the entire period of record, total nickel concentrations in the Flat River at all three stations, with very few exceptions, have consistently been recorded at concentrations below the current CCME guideline value for total nickel of 0.025 mg/l.

Exceptions included two isolated events in the early 1980s and five sampling events undertaken in 1991. Two minor elevated readings (0.03 and 0.04 mg/l), above the current CCME guideline value (0.025 mg/l), were recorded at S4-5 in September 1982 and in March 1983, respectively. In 1991, all five of the sampling events undertaken at S4-29 (upstream background) and S4-5 (directly downstream of the mine) reported total nickel concentrations of 0.05 mg/l.

In addition, as noted with the other metals analyzed over the period of record, following the implementation of improved QA/QC procedures by NATCL in July 2005, total nickel concentrations at all three Flat River stations remained below the current CCME guideline value for total nickel of 0.025 mg/l.

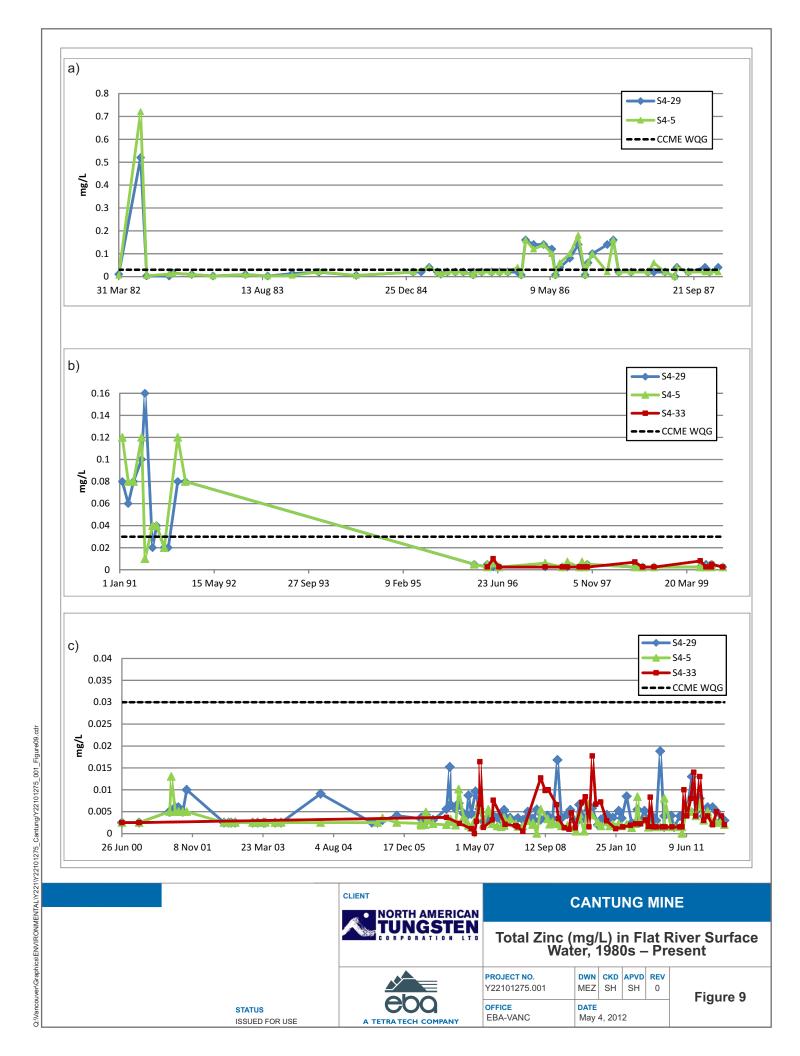


4.3.6 **Z**inc

Figure 9 and Table 5 present all of the available data for total zinc, for the period of record contained in the FULCRUM database. In addition, as previously indicated, for total zinc the additional data reported by DIAND (2001) were imported into the ESdat database and incorporated into Figure 9 and Table 5. As indicated in this figure, for the entire period of record, total zinc concentrations in the Flat River at all three stations, with very few exceptions, have consistently been recorded at concentrations below the current CCME guideline value for total zinc of 0.03 mg/l.

These exceptions included isolated events in the early 1980s and most of the sampling events undertaken in 1986 and 1991. Elevated readings (0.52 and 0.72 mg/l), above the current CCME guideline value (0.03 mg/l), were recorded at S4-29 (upstream background) and S4-5 (directly downstream of the mine) in June 1982, respectively. During the period of February to December 1986, total zinc concentrations reported by DIAND (2001) were regularly reported to be in the range of 0.1 to 0.2 mg/l at both stations. In 1991, most sampling events throughout the year reported concentrations at both stations in the range of 0.04 to 0.12 mg/l, with one higher value (0.16 mg/l) being reported in May 1991 at S4-29.

From April 1996 to the present, total zinc concentrations at all three Flat River stations have remained well below the current CCME guideline value of 0.03 mg/l.

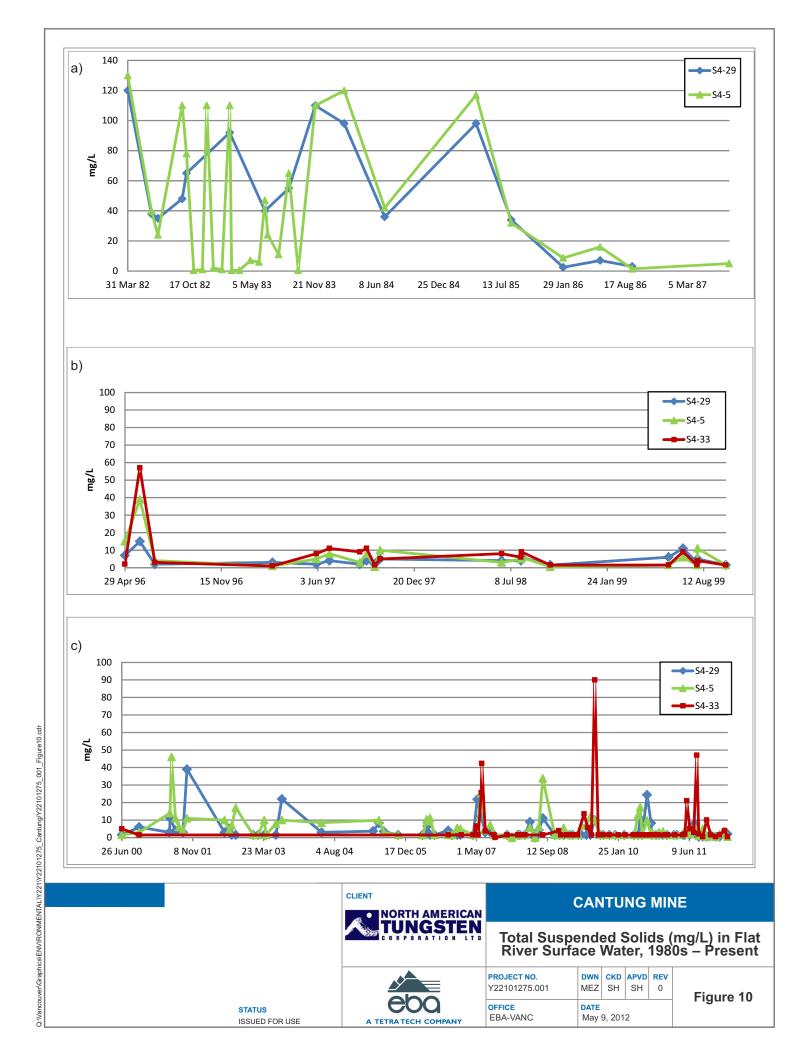


4.3.7 Total Suspended Solids

Figure 10 and Table 5 present all of the available data for total suspended solids (TSS), for the period of record contained in the FULCRUM database. In addition, as previously indicated, for TSS the additional data reported by DIAND (2001) were imported into the ESdat database and have been incorporated into Figure 10 and Table 5.

As indicated in Figure 10 and Table 5, on an annual basis, TSS concentrations recorded for all three Flat River stations have typically ranged from 1 to 10 mg/l. As would be expected, the peak TSS values recorded over the period of record have typically been associated with natural spring freshet and rainfall events in the open water period, extending from May to September.

Short-term TSS values above 80 mg/l for the period of record have only been reported for a few instances during the period 1982 to 1985. During that time, the higher TSS values recorded at S4-29 (upstream background) were typically reflected at S4-5, the downstream station located below the mine infrastructure.



4.4 Summary of Surface Water Quality

As discussed in this report, the historical assessment of surface water quality parameters at the Cantung Mine focussed on the key parameters traditionally specified in the water licence and the MMER. On this basis, the parameters examined and discussed in more detail include arsenic, cadmium, copper, lead, nickel, zinc and total suspended solids.

In addition, to allow the presentation of historic and more recent data extending for the period of record from the early 1980s to present, all of the data were treated as being valid, with the general understanding that minimum detection limits (MDL) have decreased as analysis methods have evolved. For data manipulation purposes, where sample values were clearly reported as less than the detection limit, half the value of the detection limit was used for computations and graphics production. In circumstances where it was not possible to determine what the detection limit was (particularly for some of the more historic data), the reported values were used.

Based on the historical review of results that have been presented and discussed in this report, it is readily apparent that the historic and current operations of the Cantung Mine have had very limited effects on the quality of the Flat River water for the water licence parameters assessed at all three surface water sampling stations during the period of record.

Concentrations of the key water licence parameters assessed have typically remained at or below the current CCME guideline values for the protection of freshwater aquatic life, with minor and generally isolated exceptions, mainly in the early 1980s, when the then Canada Tungsten Mine was in operation and in the early and late 1990s when the mine was closed.

In addition, as noted for all key metals parameters analyzed over the period of record, following the implementation of improved QA/QC procedures by NATCL in July 2005, total metals concentrations at all three Flat River stations dropped to well below the current CCME guideline values for each of the respective parameters.

The surface receiving water quality monitoring program has consistently demonstrated no appreciable difference in water quality of the Flat River between the sampling stations extending from 3 km upstream of the mine site to 1 km downstream of the mine site.

5.0 GROUNDWATER QUALITY

5.1 DIAND Cantung Mine Compliance Report for 1985-1999

In 2001, DIAND prepared a Compliance Report on the Cantung Mine covering the period 1985 to 1999. This was a particularly unique period of time as 1985 was the last year of full production of the Cantung Mine prior to its shutdown in the first half of 1986 until it was reactivated in 2001. This report provides a great deal of useful data and information on the condition and status of the groundwater during that period of time and thus it has been provided in Appendix B of this report.

The Compliance Report evaluated available Surveillance Network Program (SNP) data for a number of SNP stations including, of particular interest to this Historic Interpretation Report, data for groundwater sampling sites 4-27-1 to 4-27-9. As indicated by DIAND (2001), since there were approximately 20 years of complete data, a decision was made to analyze the available data for a few key years. The years selected were:

- 1985 (year of full production);
- 1986 (half a year of production, half shutdown);
- 1987 (one year after shutdown);
- 1991 (five years after shutdown);
- 1996 (ten years after shutdown); and
- 1999 (thirteen years after shutdown, and the most recent data analyzed).

The selected data were collated into tables and are included in Appendices G to O of the DIAND (2001) report. To further reduce the amount of data for analysis, the data were graphed by sampling station, but only if at least one value was above a licence limit for a particular parameter at that station. The graphs generated for this analysis are presented in Appendices B to F of the DIAND (2001) report.

The groundwater data reviewed and analyzed by DIAND involved an assessment of data from a total of 66 different piezometers as distributed among each of the nine groundwater wells. As indicated in the report, to simplify the presentation and analysis of the data, the piezometer results were discussed on a very general basis. Appendices G to M provide further information on the individual piezometers (DIAND 2001).

The SNP set maximum acceptable concentrations for the following parameters that were regulated at these sites, including pH, total copper, total zinc, oil and grease and suspended solids. Conductivity and temperature were also commonly analyzed at these sites, but these parameters were not regulated at that time (DIAND 2001). Based on DIAND's review and analysis of all of the data examined, the following were the key findings of the DIAND (2001) report for the groundwater of the Cantung Mine area.

Total Copper - The limit for total copper in the groundwater, as set out in the water licence, was 0.20 mg/l. Only two piezometers recorded total copper concentrations that were higher than the licence limit for the extended period of record analyzed by DIAND. These elevated values occurred at stations 4-27-7 P12 and 4-27-9. As illustrated in the copper graphs provided in Appendix D of the DIAND (2011) report, the single

elevated value (0.8 mg/l) recorded over the period of record examined for the 4-27-7 P12 site (located directly below the toe of TP4 at 0-1.3 m) occurred on November 11, 1986 a number of months following shutdown of the Cantung Mine.

The other two isolated but minor elevated values recorded at Station 4-27-9 (located directly below TP2 at 0-8.1 m) for total copper over the period of record occurred on September 18, 1986 (0.28 mg/l) and November 4, 1991 ((0.28 mg/l). No other total copper values above licenced limits were noted by DIAND (2001) in any of the other groundwater data examined for the period of record.

Total Zinc – The limit for total zinc in the groundwater, as set out in the water licence, was 0.20 mg/l. In total 14 piezometers had at least one sample over the licence limit throughout the extended period of record analyzed by DIAND. Table 6 summarizes the elevated groundwater quality sample results for total zinc during the period January 4, 1985 to September 27, 1999.

Table 6: Elevated Groundwater Sampling Results for Total Zinc Reported for the Period January 4, 1985 to September 27, 1999

Groundwater Sampling Site	Zn (mg/l)	Sampling Date (M/D/Y)
4-27-1 P1	0.28	11/4/91
4-27-1 P6	0.24	11/4/91
4-27-1 P10	0.32	11/4/91
4-27-2 P4	0.24	11/4/91
4-27-3 P1	0.28	11/4/91
4-27-4 P8	1.17	11/25/85
4-27-4 P9	0.24	11/4/91
4-27-4 P5	0.24	11/4/91
4-27-5 P8	0.28	11/25/85
4-27-5 P13	0.24	4/27/91
4-27-5 P13	0.32	4/4/91
4-27-7 P12	5.10	11/24/86
4-27-9 BH53	0.72	6/30/86
4-27-9 BH53	0.28	11/4/91

As noted in Table 6, two elevated values for total zinc (1.17 mg/l and 0.28 mg/l) were recorded in groundwater on November 25, 1985, when the Cantung Mine was still in full operation, at stations 4-27-4 P8 (located near the Flat River below TP4/TP3) and 4-27-5 P8 (located between TP4 and the airstrip), respectively.

Two elevated values for total zinc were recorded in 1986. The highest concentration of zinc (5.10 mg/l) recorded at any time during the extended period of record reviewed by DIAND, was registered at Station 4-27-7 P12 (located below the toe of TP4 at 0-1.3 m) on November 24, 1986, several months after the mine had shut-down its operations. The other elevated value (0.72 mg/l) was recorded at Station 4-27-9 (located below the toe of TP2).

All of the other elevated total zinc values recorded over the extended period of record reviewed by DIAND occurred on November 11, 1991, approximately 5 years following the mid-1986 closure of the Cantung Mine. On that single day of groundwater sampling, elevated total zinc values ranging from 0.24 to 0.32 mg/l were recorded at stations 4-27-1 to 4-27-5 and 4-27-9. NATCL/EBA are not aware of any reason(s) for these apparent elevated values. However, it is most important to note that no other elevated total zinc values were recorded throughout the extended period of record reviewed by DIAND (2001), including the 13 years between mid-1986 and the end of 1999, when the Cantung Mine was not in operation.

Total Suspended Solids - The limit for total suspended solids (TSS) in the groundwater, as set out in the water licence, was 50 mg/l. In total 42 out of the 66 piezometers reviewed by DIAND in the 1985 to 1999 data set had at least one TSS value over this licence limit. In particular, Stations 4-27-4 (located near the Flat River below TP4/TP3) and 4-27-5 (located between TP3 and the airstrip) both had nine piezometers with at least one sample over the TSS licence limit.

The single highest value recorded for TSS (10,000 mg/l) reported in the groundwater over the extended period of record was registered at Station 4-27-7 P12 (located below the toe of TP4 at 0-1.3 m) on November 24, 1986, several months after the mine had shut down its operations. This elevated TSS value corresponds with the single highest reading of total zinc reported for the same piezometer on the same day.

Other particularly elevated groundwater TSS results reported during the extended period of record reviewed by DIAND included:

- 1,250 mg/l TSS at Station 4-27-9 (located below the toe of TP2 at 0-8.1 m) on October 11, 1999;
- 1,490 mg/l TSS at Station 4-27-4 P7 (located near the Flat River below TP4/TP3 at 2 m) on June 30, 1999;
- 620 mg/l TSS at Station 4-27-1 P10 (located directly adjacent to 4-27-9 at 9 m)on August 12, 1985; and
- 427 mg/l TSS at Station 4-27-5 P6 (located between TP3 and the airstrip) on June 30, 1986.

However, no clear trends for TSS in the groundwater were noted during the extended period of record reviewed by DIAND (2001).

5.2 1980 to Present Groundwater Quality Reporting

For purposes of this report, the assessment of groundwater quality parameters also focussed on the key parameters traditionally specified in the water licence and the MMER. On this basis, the parameters examined and discussed in more detail include arsenic, cadmium, copper, lead, nickel, zinc and total suspended solids.

In addition, to allow the presentation of historic and more recent data extending for the period of record from the early 1980s to present, all of the data were treated as being valid, with the general understanding that minimum detection limits (MDL) have decreased as analysis methods have evolved. For data manipulation purposes, where sample values were clearly reported as less than the detection limit, half the

value of the detection limit was used for computations and graphics production. In circumstances where it was not possible to determine what the detection limit was (particularly for some of the more historic data), the reported values were used.

Due to the large number of groundwater sampling sites monitored at the Cantung Mine site, as illustrated in Figure 3 and summarized in Table 2, NATCL and EBA determined that in the interests of time and efficiency, the historical and current groundwater quality assessment focus on a more limited number of key SNP groundwater sampling stations. In particular the stations that were selected for further analysis were:

•	S4-27-1/16	East (down-gradient) of TP2 on the Flat River floodplain, also referred to as MW1-1;
٠	S4-27-5/13	South (down-gradient) of TP3 west of airstrip north end;
٠	S4-27-7	East (down-gradient) of TP4 on the Flat River floodplain, also referred to as BH 43;
•	S4-28-1	East (down-gradient) of TP3 near airstrip road/groundwater, also referred to as MW-6 and pumping well PW1(designated as MMER final discharge point); and
÷	S4-27-17	Northwest of freshwater pump house (background station).

Part E.11 of the Water Licence specifies the maximum average concentrations (MACs) for the compliance parameters: total metals (arsenic, cadmium, copper, lead, nickel, zinc), total suspended solids, and total ammonia as summarized in Table 7. The Water Licence defines a "Maximum Average Concentration" and a "Maximum Concentration of Any Grab Sample" for each compliance parameter. "Average Concentration", according to the definition in the Water Licence, means the "discrete average of four consecutive analytical results, or if less than four analytical results, the discrete average of the analytical results collected during a batch decant". In addition to the above mentioned compliance parameters, the pH at the designated sampling locations must be between 6.0 and 9.0 as a requirement of Part E.12 of the Water Licence.

However, it should be noted that in general, dissolved metals concentrations rather than total metals concentrations are used for assessment of groundwater quality because of the natural filtration properties of aquifer materials. Total metal concentrations are commonly used in surface water only (except for the assessment of drinking water quality and the assessment of aquatic life).

Particulate matter in groundwater is usually retained by the aquifer matrix. Suspended solids in groundwater samples are generally introduced into the sample during the sampling process or occur as a result of oxidation of the sample once it has been collected. Nevertheless, because both the MVLWB water licence and MMER specify total concentrations of metals, total values are discussed in the following subsections.

Table 7: MVLWB Water Licence MV2002L2-0019 Groundwater Quality Parameters

Compliance Parameter	Maximum Average Concentration (mg/l)	Maximum Concentration of Any Grab Sample (mg/l)
Total Arsenic	0.20	0.40
Total Cadmium	0.01	0.02
Total Copper	0.20	0.40
Total Lead	0.20	0.40
Total Nickel	0.40	0.80
Total Zinc	0.20	0.40
Total Suspended Solids	15.0	30.0
Total Ammonia	5.00	10.00
рН	Less than 6.0 -	Greater than 9.0

Tables 8 to 12 present all of the data evaluated for each of the five selected ground water quality monitoring stations and the selected parameters for the period of record. In addition, for the reporting of total copper and zinc data, the additional data reported by DIAND (2001) were imported into the ESdat database and these data have been incorporated into the respective figures for these two parameters.

Figures 11 to 37 present the data trends generated in relation to the MVLWB water licence Maximum Average Concentrations. These regulated concentrations are generally comparable to or more conservative than the MMER authorized concentrations that have also been specifically established for Station S4-28-1. The following subsections discuss the results for each of these five groundwater monitoring stations and the key parameters.

5.2.1 Groundwater Station S4-27-1/16

Groundwater monitoring Station S4-27-1 was established in January 1983 and as previously indicated is located directly east and down-gradient of TP2 on the Flat River floodplain. This station, also referred to as MW1, is a multi-level installation with a total of ten piezometers installed at the following depths:

 Piezometer 1 	36.6 m		Piezometer 6	21.3 m
Piezometer 2	33.6 m	•	Piezometer 7	18.3 m
Piezometer 3	30.5 m	•	Piezometer 8	15.2 m
Piezometer 4	27.4 m	•	Piezometer 9	12.1 m
Piezometer 5	24.3	•	Piezometer 10	9.1 m

Figures 11 to 17 and Table 8 present all of the available groundwater quality data for Station S4-27-1 for the period of record. It should be noted that this station was replaced with Station S4-27-16 in August, 2009 and the data generated since that time have been incorporated into Table 8 and the referenced figures.

As noted in Figures 11 to 17 and Table 8, during the 1980s, the concentrations of total metals in S4-27-1 groundwater at all piezometer depths were consistently below the current MVLWB MAC groundwater

quality parameters, with very few exceptions which occurred primarily in May and September 1986, shortly before and after the then Canada Tungsten Mine closed down for an extended shutdown period.

In May 1986, elevated total values for each of these metals above the current MACs were recorded in the groundwater at several of the S4-27-1 piezometers, as summarized below:

- Piezometer 2 total arsenic (<0.5 mg/l), cadmium (<0.1 mg/l), copper (<0.5 mg/l), lead (<0.5 mg/l), nickel (<5 mg/l) and zinc (<15 mg/l)
- Piezometer 4 total arsenic (<0.5 mg/l), cadmium (0.1 mg/l), copper (<0.5 mg/l), lead (<0.5 mg/l), nickel (<5 mg/l) and zinc (<15 mg/l)
- Piezometer 8 total arsenic (<0.5 mg/l), cadmium (1.2 mg/l), copper (<0.5 mg/l), lead (<0.5 mg/l), nickel (7.7 mg/l) and zinc (<15 mg/l).

As can be noted, the values recorded for total arsenic, copper, lead, nickel and zinc appeared to be largely due to the high detection limits employed at the time by the laboratory.

In September 1986, elevated total values for most of these metals above the current MACs were also recorded in the groundwater at several of the S4-27-1 piezometers, as summarized below:

- Piezometer 2 total arsenic (2.7 mg/l), cadmium (<0.1 mg/l) copper (<0.5 mg/l), nickel (<5 mg/l) and zinc (<15 mg/l)
- Piezometer 7 total arsenic (15.2 mg/l), cadmium (0.7 mg/l), copper (<0.5 mg/l), nickel (5.8 mg/l) and zinc (<15 mg/l)
- Piezometer 10 total arsenic (0.9 mg/l), cadmium (0.9 mg/l), copper (5.9 mg/l), nickel (<5 mg/l), zinc (29 mg/l) and TSS (47 mg/l).

Notable elevated TSS values in the 1980s were reported at Piezometer 4 in December 1982 (93 mg/l), at Piezometer 10 in August 1983 (200 mg/l), July 1984 (84 mg/l), August 1985 (670 mg/l) and September 1986 (47 mg/l) and at Piezometer 3 in January 1986 (71 mg/l).

During the 1990s, the concentrations of total metals in S4-27-1 groundwater at all piezometer depths were consistently at or below the current MVLWB MAC groundwater quality parameters, with three minor exceptions. In November 1991 the total zinc concentrations recorded at Piezometers 1, 6 and 10 were measured at 0.28, 0.24 and 0.32 mg/l, respectively.

Notable elevated TSS values in the 1990s at S4-27-1 were primarily limited to Piezometer 10, which consistently reported higher TSS during the period May 1996 to October 1997 in the range of 123 to184 mg/l, when the mine was in an extended period of closure. It is also important to note that these elevated TSS values were not reflected in the total metals results reported during the decade of the 1990s.

During the period 2000 to August 2008, when Station S4-27-1 was still operational, the concentrations of total metals in S4-27-1 groundwater at all piezometer depths were consistently at or below the current MVLWB MAC groundwater quality parameters, with a few minor exceptions for total copper and zinc.

In September 2002 a single isolated total copper concentration of 0.53 mg/l was recorded at Piezometer 10. This was followed in July 2003 with a single copper concentration of 0.24 mg/l recorded at

Piezometer 1. Total zinc was elevated on several occasions, primarily in Piezometer 10, with the highest concentration of zinc (1.54 mg/l) recorded in September 2002, and several readings in the range of 0.39 to 0.92 mg/l being recorded during the infrequent sampling that occurred in 2003 (1 sample), 2006 (1 sample) and 2008 (3 samples).

However, TSS values in the groundwater at S4-27-1 Piezometer 10 remained elevated above the current MAC value of 15 mg/l, ranging from 44.3 to 235 mg/l during the period 2003 to 2008.

Since the beginning of sampling at Station S4-27-16 in August 2009, which replaced S4-27-1, the concentrations of total metals in S4-27-16 groundwater have consistently been below the current MVLWB MAC groundwater quality parameters.

However, TSS values in the groundwater at S4-27-16 during the period August 2009 to August 2011 were consistently recorded above the MAC value for TSS, ranging from 32-96.5 mg/l. These elevated TSS values fall within the range of TSS values recorded at S4-27-1 during the period of record for this station, including the 1990s, when the mine was in an extended closure period.

Table 8: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-1/16, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-1								
S4-27-1-1	08/12/1982	0.0019	0.00046	0.0017	0.00063	0.0029	0.021	27
S4-27-1-1	22/11/1983	0.0061	<0.0001	0.0012	<0.0001	0.0067	0.018	19
S4-27-1-1	05/07/1984	0.0038	0.0001	0.003	0.0034	0.002	0.02	5
S4-27-1-1	21/01/1985			0.001			0.005	
S4-27-1-1	25/03/1985			0.004			0.005	
S4-27-1-1	22/04/1985	<0.001	<0.0001	0.0005	0.00139	<0.01	<0.001	5.8
S4-27-1-1	27/05/1985			0.001			0.005	
S4-27-1-1	12/08/1985			0.001			< 0.005	<1
S4-27-1-1	14/08/1985	0.0015	0.0002	<0.0005		<0.01	<0.015	<5
S4-27-1-1	24/09/1985			0.001			0.002	
S4-27-1-1	25/11/1985			0.041			0.054	
S4-27-1-1	02/09/1987			0.04				
S4-27-1-1	04/11/1991			0.04			0.28	
S4-27-1-1	28/07/2003	0.0041	<0.01	0.24	< 0.05	< 0.05	0.36	18
S4-27-1-1	16/08/2008	0.00141	<0.0001	0.00092	0.00028	<0.001	0.0058	3.7
S4-27-1-2	08/12/1982	0.0017	0.00026	<0.001	<0.0002	<0.0025	0.015	21
S4-27-1-2	22/11/1983	0.0037	0.0003	<0.0005	<0.0001	0.005	<0.01	<5
S4-27-1-2	05/07/1984	0.0027	<0.0001	0.0006	<0.0001	<0.001	0.012	<5
S4-27-1-2	27/05/1986	<0.5	<0.1	<0.5	<0.5	<5	<15	<5
S4-27-1-2	30/06/1986			0.002			0.005	
S4-27-1-2	08/09/1986	2.7	<0.1	<0.5	<0.1	<5	<15	<3
S4-27-1-2	18/09/1986			0.001			0.013	
S4-27-1-2	24/11/1986			0.02			0.14	
S4-27-1-2	23/03/1987			0.06			0.1	
S4-27-1-2	13/06/1987			0.02			0.02	

Table 8: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-1/16, 1980s – Present

		1980s – Present								
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)		
S4-27-1-2	30/10/1987			0.02						
S4-27-1-2	27/04/1991			0.02			0.02			
S4-27-1-2	11/10/1996	<0.2	<0.01	<0.001	< 0.05	<0.02	0.008	3		
S4-27-1-2	31/07/1997	0.0333	<0.01	<0.001	< 0.05	<0.001	0.007	2		
S4-27-1-2	10/10/1997	0.0015	<0.01	0.001	<0.05	<0.001	<0.005	3		
S4-27-1-2	30/07/1998	0.0009	<0.01	<0.001	<0.05	<0.002	0.006	<1		
S4-27-1-2	31/05/1999	0.0005	<0.01	<0.001	< 0.05	<0.001	0.008	<3		
S4-27-1-2	30/06/1999	0.001	<0.01	<0.001	< 0.05	0.002	0.011	5		
S4-27-1-2	16/09/1999	<0.2	<0.01	<0.01	< 0.05	< 0.05	0.006	3		
S4-27-1-2	07/08/2002	<0.2	<0.01	<0.01	< 0.05	< 0.05	<0.005			
S4-27-1-2	07/09/2002	<0.2	<0.01	<0.01	< 0.05	<0.05	<0.005	8		
S4-27-1-2	12/08/2003	0.0019	<0.01	0.11	< 0.05	<0.05	0.279	6		
S4-27-1-2	18/10/2005	0.00241	<0.0001	<0.0002	< 0.0001	<0.001	<0.002	3.7		
S4-27-1-2	23/07/2006	0.00221	0.00011	0.00027	0.00016	<0.001	0.002	4.4		
S4-27-1-2	02/09/2006	0.00248	<0.0001	<0.0002	<0.0001	<0.001	0.0031	3.3		
S4-27-1-2	20/07/2007	0.00137	0.00035	0.00024	0.00012	<0.001	0.0034	<3		
S4-27-1-2	18/08/2007	0.00163	<0.0001	0.00024	<0.0001	<0.001	<0.002	<3		
S4-27-1-3	08/12/1982	<0.001	0.00026	<0.001	<0.0002	0.0027	0.012	7		
S4-27-1-3	22/11/1983	0.0011	<0.0001	<0.0005	<0.0001	0.0056	<0.01	<5		
S4-27-1-3	05/07/1984	0.0011	<0.0001	<0.0005	<0.0001	<0.001	0.016	<5		
S4-27-1-3	28/01/1986	<0.001	0.0002	<0.0005	<0.0005	<0.005	<0.015	71		
S4-27-1-3	21/06/1998	0.0011	<0.01	0.001	<0.05	0.001	0.012	5		
S4-27-1-3	28/09/1998	0.0007	<0.01	0.001	<0.05	0.001	0.015	1		
S4-27-1-3	29/07/1999	0.0006	<0.01	<0.002	<0.05	<0.001	<0.005	<3		
S4-27-1-3	16/09/1999	<0.2	<0.01	<0.01	<0.05	<0.05	<0.005	3		
S4-27-1-3	20/06/2002	<0.2	<0.01	<0.01	<0.05	<0.05	0.066			
S4-27-1-3	20/06/2006	0.0426	0.00245	0.00515	0.00187	0.0032	0.0398	80		
S4-27-1-3	05/07/2008	0.00136	0.00175	0.0011	0.00015	0.0013	0.0054	7.9		
S4-27-1-3	09/08/2008	0.00099	0.00011	0.00038	<0.0001	0.0011	0.0049	5.1		
S4-27-1-4	08/12/1982	<0.001	0.00072	0.0028	0.00036	0.0039	0.028	93		
S4-27-1-4	22/11/1983	<0.001	<0.0001	0.0006	<0.0001	0.0028	0.018	<5		
S4-27-1-4	05/07/1984	<0.001	0.0002	0.0007	<0.0001	<0.001	0.056	5		
S4-27-1-4	22/04/1985	<0.001	<0.0001	0.00081	<0.0001	<0.01	<0.001	<5		
S4-27-1-4	27/05/1986	<0.5	0.1	<0.5	<0.5	<5	<15	<5		
S4-27-1-4	24/06/1991			0.02			0.02			
S4-27-1-4	20/02/1996			0.006						
S4-27-1-4	30/05/1996	<0.2	<0.01	0.006	<0.05	<0.02	0.039	25		
S4-27-1-4	30/07/1996	<0.2	<0.01	0.004	<0.05	<0.02	0.035	35		
S4-27-1-4	28/09/1998	0.0003	<0.01	<0.001	<0.05	0.001	0.006	5		
S4-27-1-4	16/09/1999	<0.2	<0.01	<0.01	<0.05	<0.05	0.009	4		
S4-27-1-5	08/12/1982	<0.001	0.00033	<0.001	<0.0002	<0.0025	0.016	14		
S4-27-1-5	22/11/1983	0.0014	<0.0001	<0.0005	<0.0001	0.0025	<0.01	<5		
S4-27-1-5	05/07/1984	<0.001	0.0001	0.0006	<0.0001	<0.001	0.01	<5		

Table 8: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-1/16, 1980s – Present

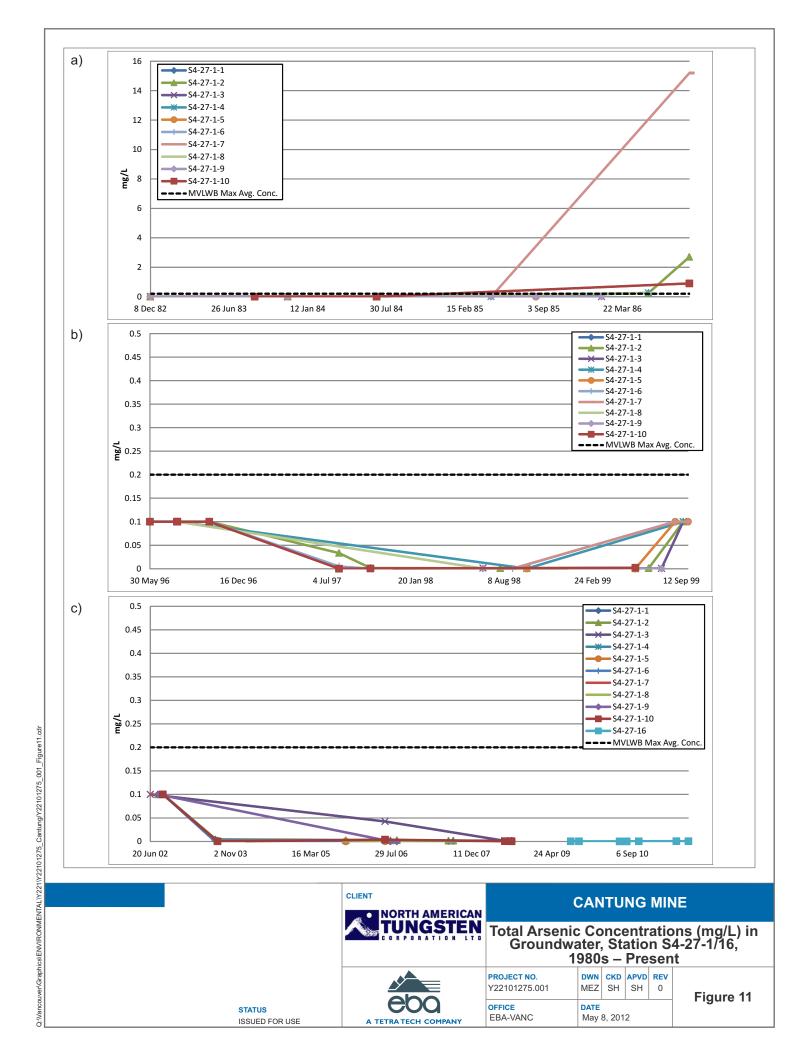
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-1-5	21/01/1985			0.002			0.005	
S4-27-1-5	25/03/1985			0.001			0.005	
S4-27-1-5	27/05/1985			0.001			0.005	
S4-27-1-5	12/08/1985			<0.001			< 0.005	4
S4-27-1-5	14/08/1985	<0.001	0.0002	<0.0005		<0.01	< 0.015	<5
S4-27-1-5	24/09/1985			0.001			0.003	
S4-27-1-5	02/09/1987			0.02			0.04	
S4-27-1-5	28/09/1998	0.0002	<0.01	<0.001	< 0.05	0.002	< 0.005	2
S4-27-1-5	31/05/1999	0.0003	<0.01	<0.001	< 0.05	0.003	0.009	<3
S4-27-1-5	29/08/1999	<0.2	<0.01	<0.01	< 0.05	<0.05	0.006	<3
S4-27-1-5	27/09/1999	<0.2	<0.01	<0.01	< 0.05	< 0.05	< 0.005	<3
S4-27-1-5	18/10/2005	<0.0002	0.00025	0.00068	<0.0001	<0.001	0.0044	<3
S4-27-1-5	20/06/2006	0.00023	0.00223	0.00082	<0.0001	<0.001	0.0072	<3
S4-27-1-6	08/12/1982	<0.001	0.00092	<0.001	<0.0002	0.0119	0.018	8
S4-27-1-6	22/11/1983	<0.001	<0.0001	<0.0005	<0.0001	0.0087	<0.01	<5
S4-27-1-6	05/07/1984	<0.001	0.0009	0.0007	<0.0001	0.0075	0.02	<5
S4-27-1-6	30/10/1987			0.02				
S4-27-1-6	04/11/1991			0.04			0.24	
S4-27-1-6	20/02/1996			0.001				
S4-27-1-6	30/05/1996	<0.2	<0.01	<0.001	< 0.05	<0.02	< 0.005	16
S4-27-1-6	11/10/1996	<0.2	<0.01	<0.001	< 0.05	<0.02	<0.005	<1
S4-27-1-6	31/07/1997	0.005	<0.01	<0.001	< 0.05	0.002	< 0.005	2
S4-27-1-6	10/10/1997	0.0002	<0.01	<0.005	< 0.05	0.003	< 0.005	<2
S4-27-1-6	27/08/1998	0.0002	<0.01	0.001	< 0.05	0.004	0.011	4
S4-27-1-6	29/08/1999	<0.2	<0.01	<0.01	< 0.05	< 0.05	0.012	<3
S4-27-1-6	27/09/1999	<0.2	<0.01	<0.01	< 0.05	<0.05	< 0.005	<3
S4-27-1-6	07/08/2002	<0.2	<0.01	<0.01	< 0.05	< 0.05	0.024	<3
S4-27-1-6	07/09/2002	<0.2	<0.01	0.02	< 0.05	0.07	0.112	754
S4-27-1-6	28/07/2003	<0.0005	<0.01	0.04	< 0.05	<0.05	0.121	9
S4-27-1-6	12/08/2003	<0.0005	<0.01	0.06	< 0.05	< 0.05	0.2	<3
S4-27-1-6	23/07/2006	0.00039	0.0022	0.013	0.00088	0.0068	0.0231	<3
S4-27-1-6	02/09/2006	<0.0002	0.0003	0.00189	0.00034	0.0044	0.0081	9.3
S4-27-1-6	20/07/2007	<0.0005	0.00066	0.00592	0.00034	0.0097	0.0127	<3
S4-27-1-6	18/08/2007	<0.0005	0.0003	<0.0005	<0.00025	0.0051	< 0.005	8.7
S4-27-1-6	16/08/2008	<0.0002	0.00025	0.00113	0.00024	0.0041	0.0091	<3
S4-27-1-7	08/12/1982	<0.001	0.00051	<0.001	<0.0002	0.0055	0.016	<5
S4-27-1-7	30/08/1983	0.0028	0.0008	0.0015	0.0002	0.0078	0.009	
S4-27-1-7	22/11/1983	0.0016	<0.0001	<0.0005	<0.0001	0.0042	0.018	<5
S4-27-1-7	05/07/1984	<0.001	0.0006	0.0009	<0.0001	0.0154	0.018	<5
S4-27-1-7	22/04/1985	<0.001	<0.0001	0.0005	<0.0001	<0.01	<0.001	<5
S4-27-1-7	08/09/1986	15.2	0.7	<0.5	<0.1	5.8	<15	<3
S4-27-1-7	27/04/1991			0.02			0.02	
S4-27-1-7	30/07/1998	0.0002	<0.01	<0.001	< 0.05	<0.002	< 0.005	<1

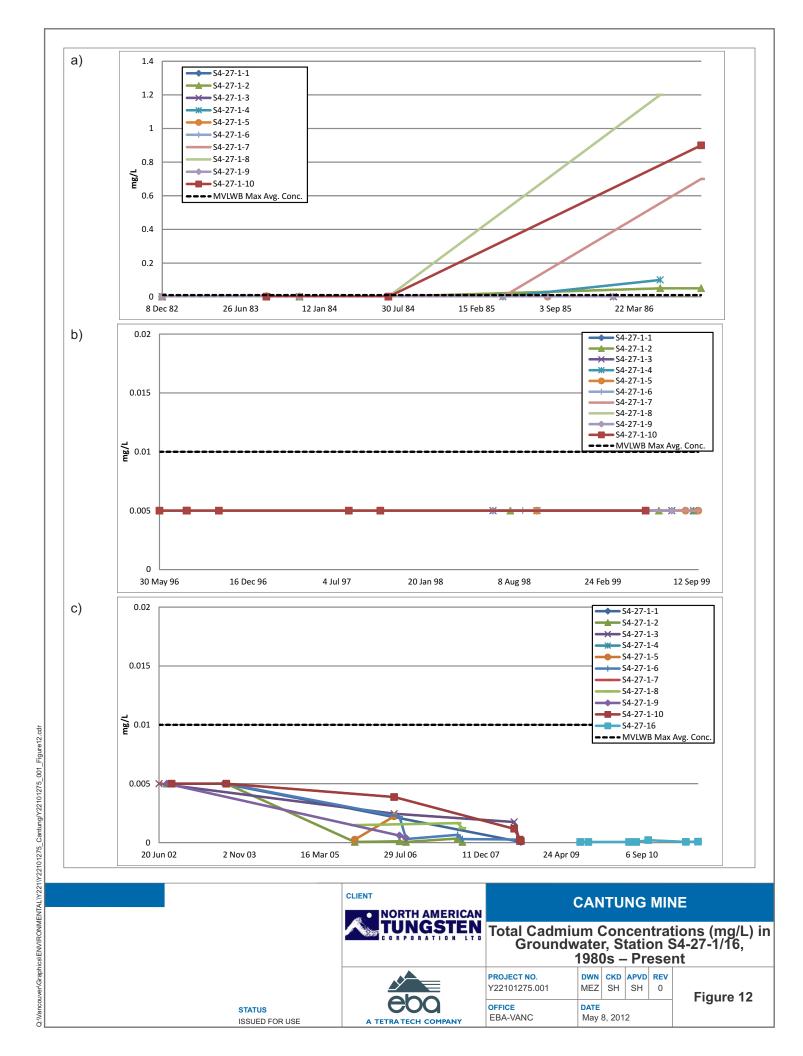
Table 8: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-1/16, 1980s – Present

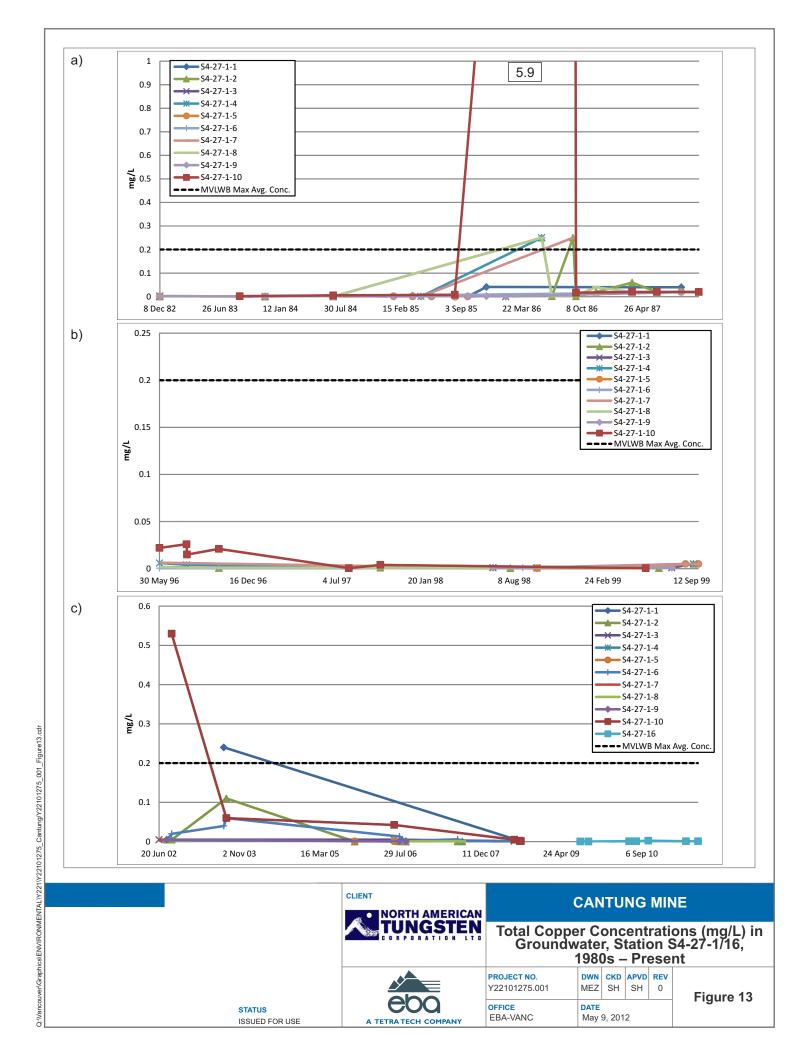
980s – Prese	Date	Arsenic	Cadmium	Copper	Lead	Nickel	Zinc	TSS
Station	Sampled	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
S4-27-1-7	27/08/1998	0.0003	<0.01	<0.001	< 0.05	0.002	0.006	2
S4-27-1-7	29/08/1999	<0.2	<0.01	<0.01	< 0.05	< 0.05	0.007	<3
S4-27-1-7	27/09/1999	<0.2	<0.01	<0.01	< 0.05	<0.05	0.014	<3
S4-27-1-7	20/06/2002	<0.2	<0.01	<0.01	< 0.05	<0.05	<0.005	<3
S4-27-1-8	08/12/1982	<0.001	0.00168	<0.001	<0.0002	0.0142	0.022	< 5
S4-27-1-8	30/08/1983	0.0029	0.0009	<0.0005	0.0001	0.02	<0.005	<5
S4-27-1-8	22/11/1983	<0.001	0.0006	0.0008	<0.0001	0.0249	0.022	<5
S4-27-1-8	05/07/1984	<0.001	0.0008	0.001	<0.0001	0.0183	0.021	<5
S4-27-1-8	27/05/1986	<0.5	1.2	<0.5	<0.5	7.7	<15	<5
S4-27-1-8	30/06/1986			0.002			0.016	
S4-27-1-8	18/09/1986			0.006			0.032	
S4-27-1-8	24/11/1986			0.04			0.12	
S4-27-1-8	23/03/1987			0.02			0.04	
S4-27-1-8	13/06/1987			0.02			0.02	
S4-27-1-8	30/10/1987						0.04	
S4-27-1-8	24/06/1991			0.02			0.04	
S4-27-1-8	30/07/1996	<0.2	<0.01	0.001	< 0.05	<0.02	0.017	11
S4-27-1-8	21/06/1998	0.0003	<0.01	0.001	< 0.05	0.006	0.01	6
S4-27-1-8	30/07/1998	0.0002	<0.01	0.001	< 0.05	0.005	0.009	3
S4-27-1-8	27/08/1998	0.0001	<0.01	0.002	< 0.05	0.006	0.01	2
S4-27-1-8	29/07/1999	0.0002	<0.01	<0.002	< 0.05	0.004	0.005	<3
S4-27-1-8	18/10/2005	<0.0002	0.00148	0.0005	<0.0001	0.0205	0.0194	<3
S4-27-1-8	20/07/2007	<0.0005	0.00165	0.00112	<0.00025	0.0229	0.0207	3.8
S4-27-1-8	18/08/2007	<0.0005	0.00122	<0.0005	<0.00025	0.0218	0.0166	24.7
S4-27-1-9	08/12/1982	<0.001	0.00073	<0.001	<0.0002	0.0061	0.015	<5
S4-27-1-9	30/08/1983	0.003	0.005	<0.0005	<0.0001	0.0075	< 0.005	<5
S4-27-1-9	22/11/1983	<0.001	0.0003	0.001	<0.0001	0.0155	0.018	<5
S4-27-1-9	05/07/1984	<0.001	0.0003	0.0034	<0.0001	0.0094	0.264	<5
S4-27-1-9	21/01/1985			0.001			0.005	
S4-27-1-9	25/03/1985			0.002			0.005	
S4-27-1-9	22/04/1985	<0.001	<0.0001	0.0015	<0.0001	<0.01	<0.001	<5
S4-27-1-9	27/05/1985			0.001			0.005	
S4-27-1-9	12/08/1985			0.001			< 0.005	<1
S4-27-1-9	14/08/1985	<0.001	<0.0001	0.0006		<0.01	<0.015	<5
S4-27-1-9	24/09/1985			0.001			0.004	
S4-27-1-9	25/11/1985			0.002			0.005	
S4-27-1-9	28/01/1986	<0.001	0.0002	<0.0005	0.0006	<0.005	<0.015	<5
S4-27-1-9	02/09/1987			0.02			0.04	
S4-27-1-9	21/06/1998	0.0003	<0.01	<0.002	<0.05	0.003	0.012	4
S4-27-1-9	29/07/1999	0.0001	<0.01	<0.002	<0.05	0.001	0.008	<3
S4-27-1-9	07/08/2002	<0.2	<0.01	<0.01	<0.05	<0.05	0.025	<3
S4-27-1-9	23/07/2006	<0.0002	0.0006	0.00046	0.00019	0.0042	0.007	72.4
S4-27-1-9	02/09/2006	0.00011	0.000389	0.00052	0.000084	0.00081	0.0033	3.3

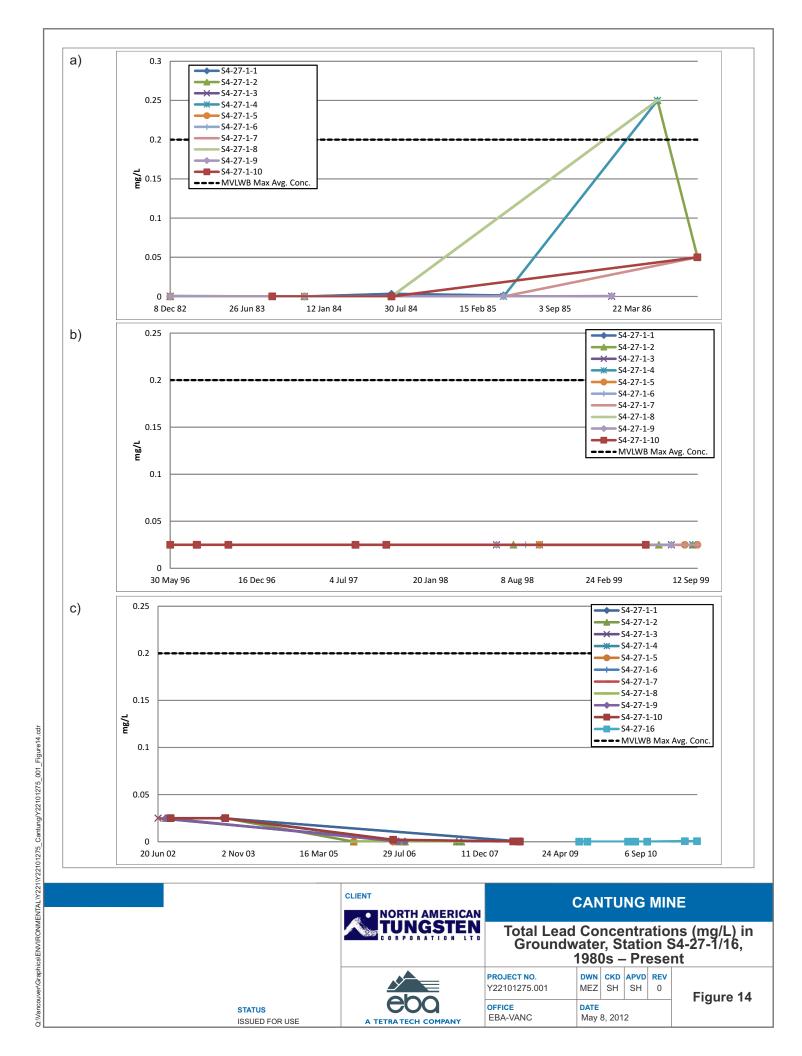
Table 8: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-1/16, 1980s – Present

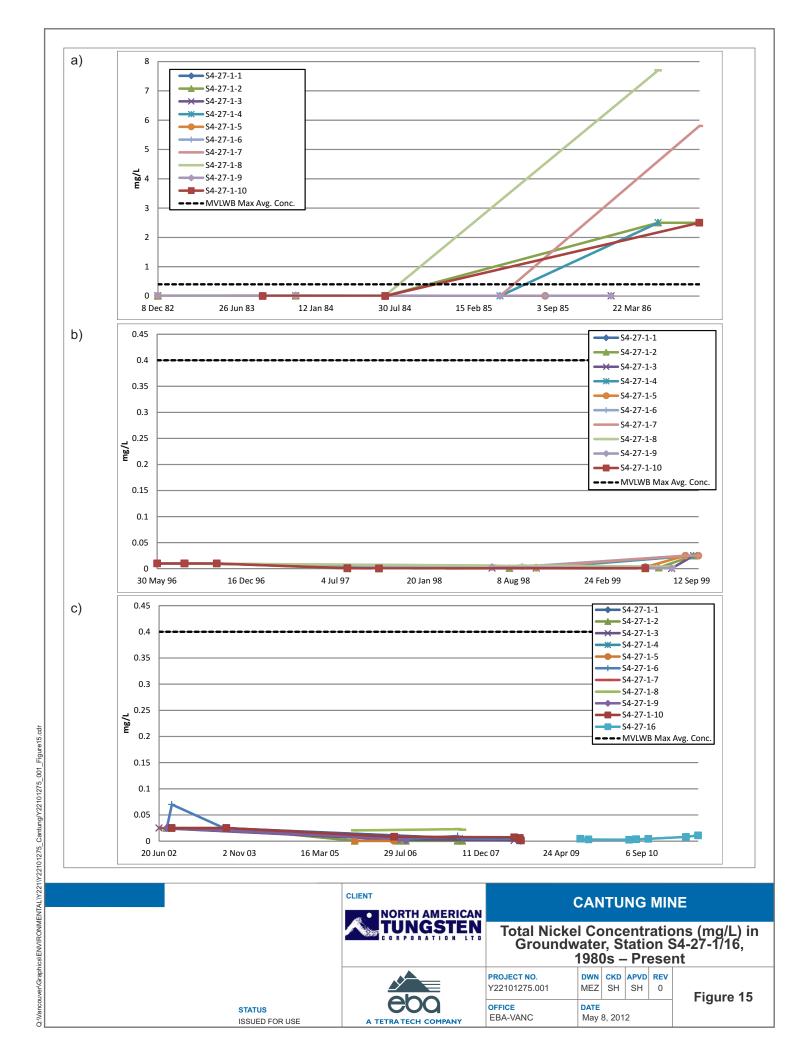
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-1-10	30/08/1983	0.003	<0.00005	0.002	<0.0001	<0.001	0.006	200
S4-27-1-10	05/07/1984	0.003	<0.0001	0.002	<0.0001	<0.001	0.031	84
S4-27-1-10	12/08/1985	0.0001	40.0001	0.008	10.0001	VO.001	0.015	670
S4-27-1-10	08/09/1986	0.9	0.9	5.9	<0.1	<5	29	47
S4-27-1-10	18/09/1986	0.0	0.0	0.017	70.1	70	0.047	.,
S4-27-1-10	23/03/1987			0.02			0.06	
S4-27-1-10	13/06/1987			0.02			0.02	
S4-27-1-10	30/10/1987			0.02			0.04	
S4-27-1-10	27/04/1991			0.04			0.04	
S4-27-1-10	04/11/1991			0.12			0.32	
S4-27-1-10	20/02/1996			0.022				
S4-27-1-10	30/05/1996	<0.2	<0.01	0.022	<0.05	<0.02	0.066	160
S4-27-1-10	30/07/1996	<0.2	<0.01	0.026	<0.05	<0.02	0.091	184
S4-27-1-10	31/07/1996	<0.2	<0.01	0.015	<0.05	<0.02	0.056	176
S4-27-1-10	11/10/1996	<0.2	<0.01	0.021	<0.05	<0.02	0.134	138
S4-27-1-10	31/07/1997	<0.0001	<0.01	<0.001	<0.05	0.001	0.048	123
S4-27-1-10	10/10/1997	0.0005	<0.01	0.004	<0.05	<0.001	0.032	160
S4-27-1-10	31/05/1999	0.0021	<0.01	<0.001	<0.05	0.001	0.01	12
S4-27-1-10	06/09/2002	<0.2	<0.01	0.53	<0.05	<0.05	1.54	
S4-27-1-10	12/08/2003	<0.0005	<0.01	0.06	<0.05	<0.05	0.389	126
S4-27-1-10	20/06/2006	0.0038	0.00387	0.0425	0.00204	0.0083	0.397	235
S4-27-1-10	05/07/2008	<0.001	0.00117	0.0049	<0.0005	0.0074	0.86	145
S4-27-1-10	09/08/2008	<0.001	< 0.0005	0.0022	<0.0005	0.006	0.923	118
S4-27-1-10	16/08/2008	<0.0005	<0.00025	0.00121	<0.00025	<0.0025	0.722	44.3
S4-27-16								
S4-27-16	19/08/2009	0.00033	<0.0001	0.00022	<0.0001	0.0046	0.0031	96.5
S4-27-16	09/10/2009	0.00024	<0.0001	0.00024	<0.0001	0.0032	0.0055	32
S4-27-16	19/06/2010	<0.0002	<0.0001	0.00088	<0.0001	0.0026	0.0078	34.8
S4-27-16	02/08/2010	<0.0002	<0.0001	0.00093	<0.0001	0.0036	0.004	54.8
S4-27-16	16/10/2010	0.0003	0.00021	0.0023	<0.0001	0.0043	<0.006	67.6
S4-27-16	07/06/2011	<0.001	0.000059	<0.002	<0.001	0.008	0.009	37
S4-27-16	21/08/2011	<0.001	0.00008	<0.002	<0.001	0.011	0.011	170

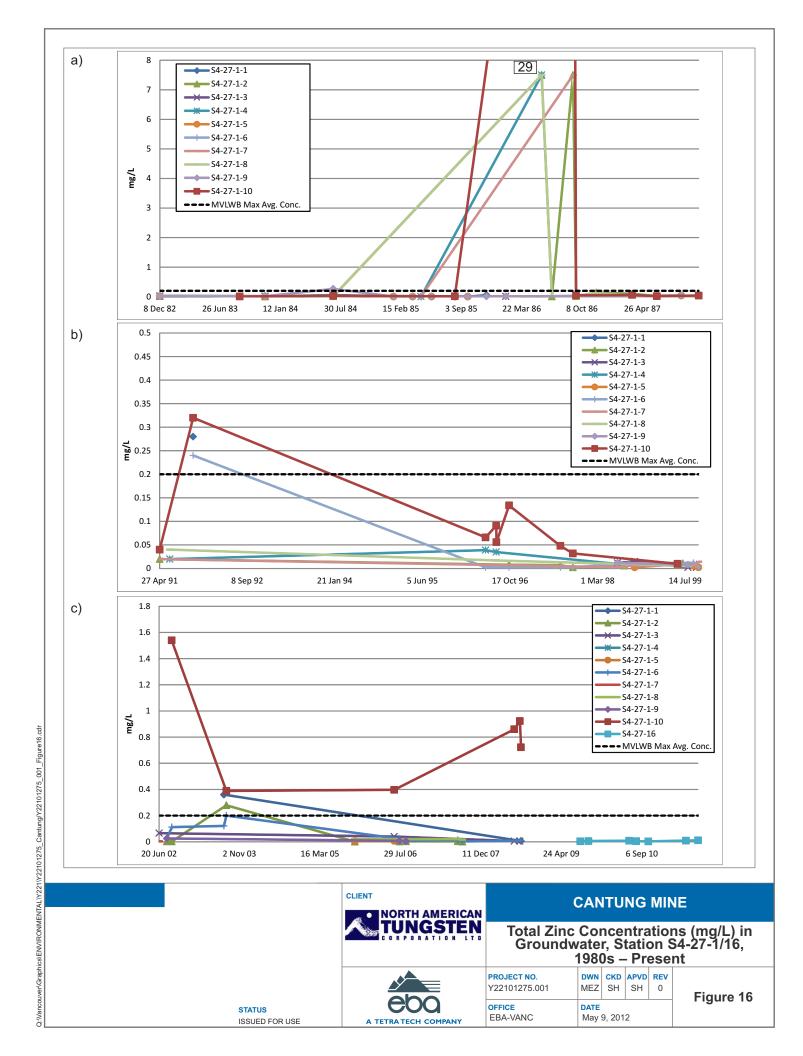


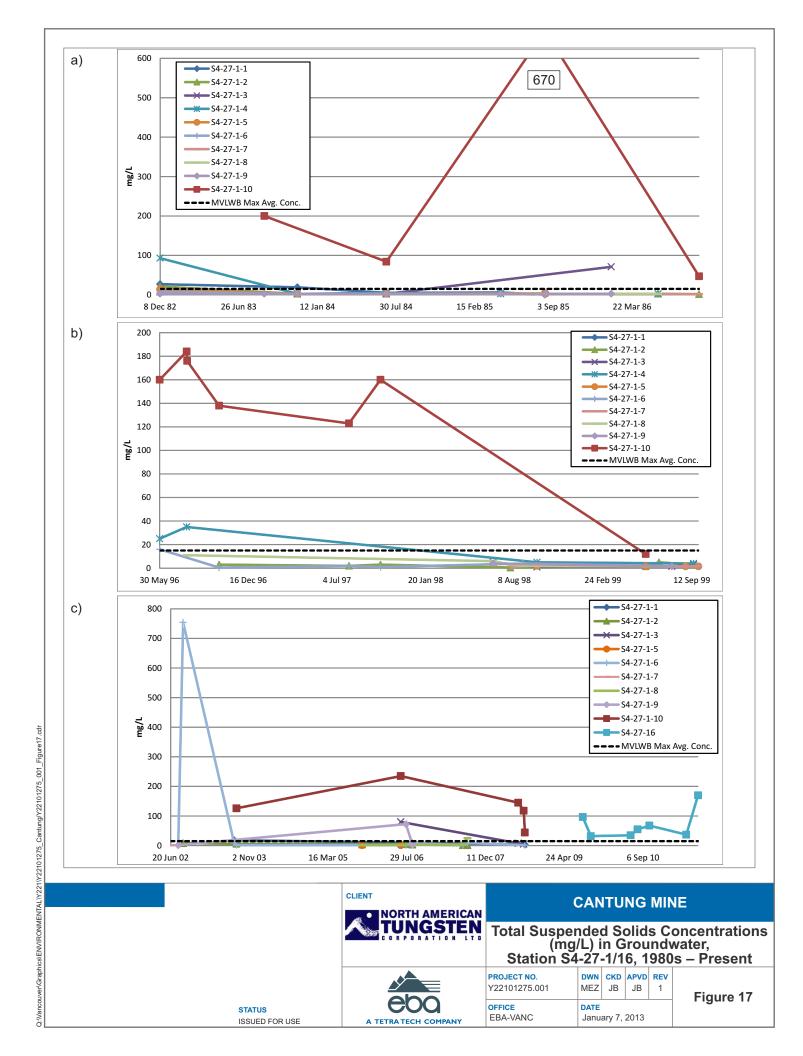












5.2.2 Groundwater Station S4-27-5/13

Groundwater monitoring Station S4-27-5 was also established in January 1983 and is located downgradient to the south of TP3 west of the north end of the existing airstrip. This station, also referred to as MW6, is a multi-level installation with a total of 13 piezometers installed at the following depths:

Piezometer 1	51.3 m	• Piezometer 8 30.0 m
• Piezometer 2	48.3 m	• Piezometer 9 26.9 m
• Piezometer 3	45.2 m	• Piezometer 10 23.9 m
Piezometer 4	42.2 m	• Piezometer 11 20.8 m
• Piezometer 5	39.1 m	• Piezometer 12 17.8 m
• Piezometer 6	36.1 m	• Piezometer 13 14.7 m
 Piezometer 7 	33.0 m	

Figures 18 to 24 and Table 9 present all of the available groundwater quality data for Station S4-27-5 for the period of record. It should be noted that this station was replaced with Station S4-27-13 in June 2009 and the data generated since that time have been incorporated into Table 9 and the referenced figures.

As noted in Figures 18 to 24 and Table 9, during the 1980s, the concentrations of total metals in S4-27-5 groundwater at all piezometer depths were consistently below the current MVLWB MAC groundwater quality parameters, with very few exceptions. In particular, total arsenic, cadmium, copper, lead and nickel values recorded were consistently below the current MVLWB MAC groundwater criteria.

As indicated in Figure 23, total zinc was only elevated above the current MAC criterion at Piezometer 8 on one occasion (November 1985) when a groundwater concentration of 0.28 mg/l of total zinc was recorded. Total zinc also reached 0.2 mg/l (the MAC criterion for zinc) at Piezometer 8 in June 1986 and at Piezometer 6 in March 1987.

Notable elevated TSS values in the 1980s were reported at Piezometers 6, 7 and 8 in December 1982 (120, 1,900 and 96 mg/l, respectively), at Piezometer 13 in April 1984 (120 mg/l) and at Piezometers 4 and 5 in August, 1985 (170 and 90 mg/l).

During the 1990s, the concentrations of total metals in S4-27-5 groundwater at all piezometer depths were consistently at or below the current MVLWB MAC groundwater quality parameters, with a few minor exceptions for total zinc.

In April and November 1991 total zinc concentrations recorded at Piezometer 13 were measured at 0.24 and 0.32 mg/l, respectively. In November 1991, Piezometers 1 and 8 recorded concentrations of 0.28 and 0.20 mg/l, respectively. In 1997 a total zinc reading of 0.22 mg/l was recorded at Piezometer 1. All of these data were reported in DIAND (2001) and were recorded during the extended period when the mine was in an extended period of closure.

Notable elevated TSS values in the 1990s at S4-27-5 were primarily limited to Piezometer 13, which reported higher TSS in May, July and October 1996 with recorded TSS values of 51, 53 and 310 mg/l, respectively. Elevated TSS values of 45 and 80 mg/l were recorded in October 1997 at Piezometers 1 and 8. It is again important to note that these elevated TSS values were not reflected in the total metals results reported during the decade of the 1990s.

Since 2000, the limited groundwater quality sampling that has taken place at Station S4-27-5 and at replacement Station S4-27-13 in June 2009 indicates that the concentrations of total metals have been consistently at or below the current MVLWB MAC groundwater quality parameters. Since 2000, with the exception of one TSS value of 691 mg/l recorded at Piezometer 3 on September 9, 2002, all TSS values at this station have remained well below the current MAC criterion.

Table 9: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-5/13, 1980s – Present

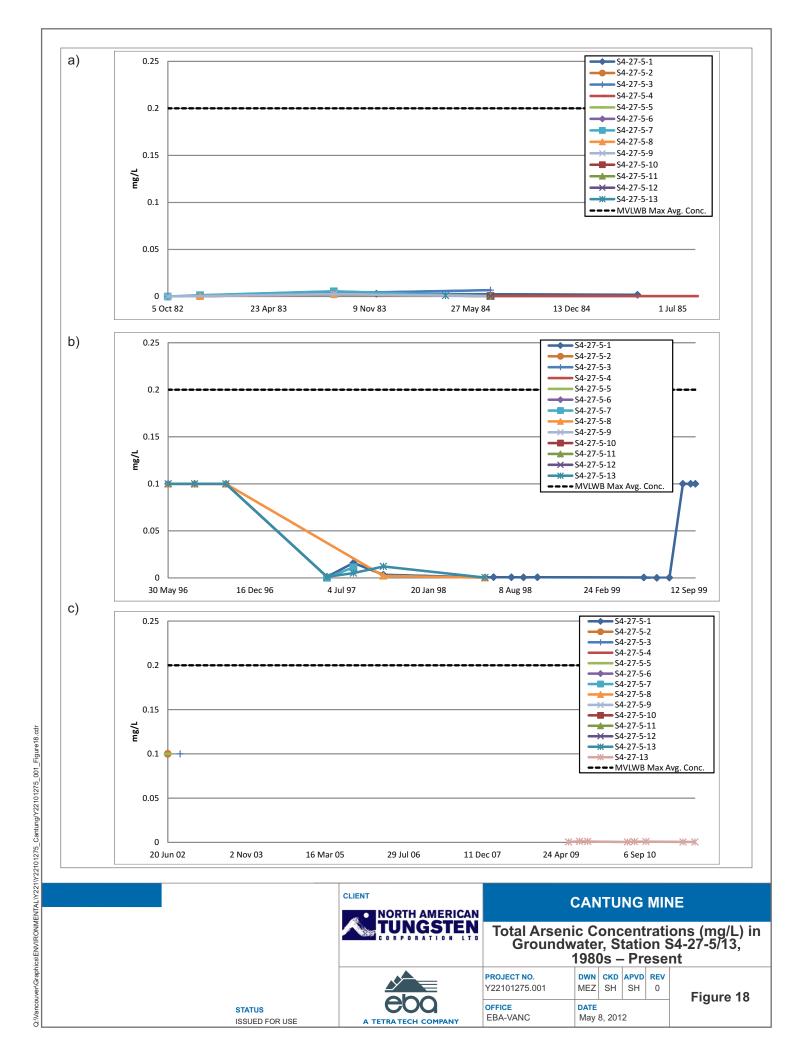
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-5							
S4-27-5-1	22/11/1983	0.0029	<0.0001	0.0011	0.0071	0.022	<5
S4-27-5-1	21/01/1985			0.002		0.007	
S4-27-5-1	25/03/1985			0.001		0.005	
S4-27-5-1	22/04/1985	0.0019	<0.0001	0.0011	<0.01	<0.02	4.2
S4-27-5-1	27/05/1985			0.001		0.005	
S4-27-5-1	12/08/1985			0.001		< 0.005	20
S4-27-5-1	27/04/1991			0.03		0.06	
S4-27-5-1	24/06/1991			0.02		0.08	
S4-27-5-1	04/11/1991			0.04		0.28	
S4-27-5-1	20/02/1996			0.007			
S4-27-5-1	30/05/1996	<0.2	<0.01	0.007	<0.02	0.013	11
S4-27-5-1	30/07/1996	<0.2	<0.01	0.007	<0.02	0.021	9
S4-27-5-1	10/10/1996	<0.2	<0.01	0.004	<0.02	0.026	7
S4-27-5-1	31/05/1997	0.0012	<0.01	0.005	0.003	0.034	9
S4-27-5-1	31/07/1997	0.016	<0.01	0.004	0.017	0.012	13
S4-27-5-1	08/10/1997	0.0034	<0.01	0.059	0.023	0.218	45
S4-27-5-1	30/05/1998	0.0005	<0.01	0.017	0.006	0.07	17
S4-27-5-1	19/06/1998	0.0008	<0.01	0.02	0.006	0.049	24
S4-27-5-1	30/07/1998	0.0007	<0.01	0.03	0.007	0.066	17
S4-27-5-1	27/08/1998	0.0006	<0.01	0.02	0.005	0.058	13
S4-27-5-1	28/09/1998	0.0007	<0.01	0.02	0.004	0.05	18
S4-27-5-1	31/05/1999	0.0005	<0.01	0.03	0.004	0.067	27
S4-27-5-1	30/06/1999	0.0001	<0.01	0.008	0.002	0.035	<3
S4-27-5-1	29/07/1999	0.0003	<0.01	0.013	0.003	0.031	3
S4-27-5-1	29/08/1999	<0.2	<0.01	0.02	<0.05	0.028	3
S4-27-5-1	16/09/1999	<0.2	<0.01	0.02	< 0.05	0.052	26
S4-27-5-1	27/09/1999	<0.2	<0.01	0.03	< 0.05	0.058	11
S4-27-5-2	08/12/1982	<0.001	0.00185	0.0018	<0.0025	0.021	8
S4-27-5-2	30/08/1983	0.0036	<0.00005	0.0008	0.002	<0.005	<5
S4-27-5-2	05/07/1984	<0.001	0.0002	0.0017	0.0018	0.034	<5
S4-27-5-2	30/06/1986			0.004		0.013	
S4-27-5-2	18/09/1986			0.036		0.14	
S4-27-5-2	20/06/2002	<0.2	<0.01	0.01	< 0.05	0.047	36
S4-27-5-3	08/12/1982	<0.001	0.00074	0.0011	<0.0025	0.015	25
S4-27-5-3	30/08/1983	0.0036	0.0002	0.0006	0.0025	0.011	<5
S4-27-5-3	05/07/1984	0.0068	0.0006	0.0067	0.0083	0.106	12

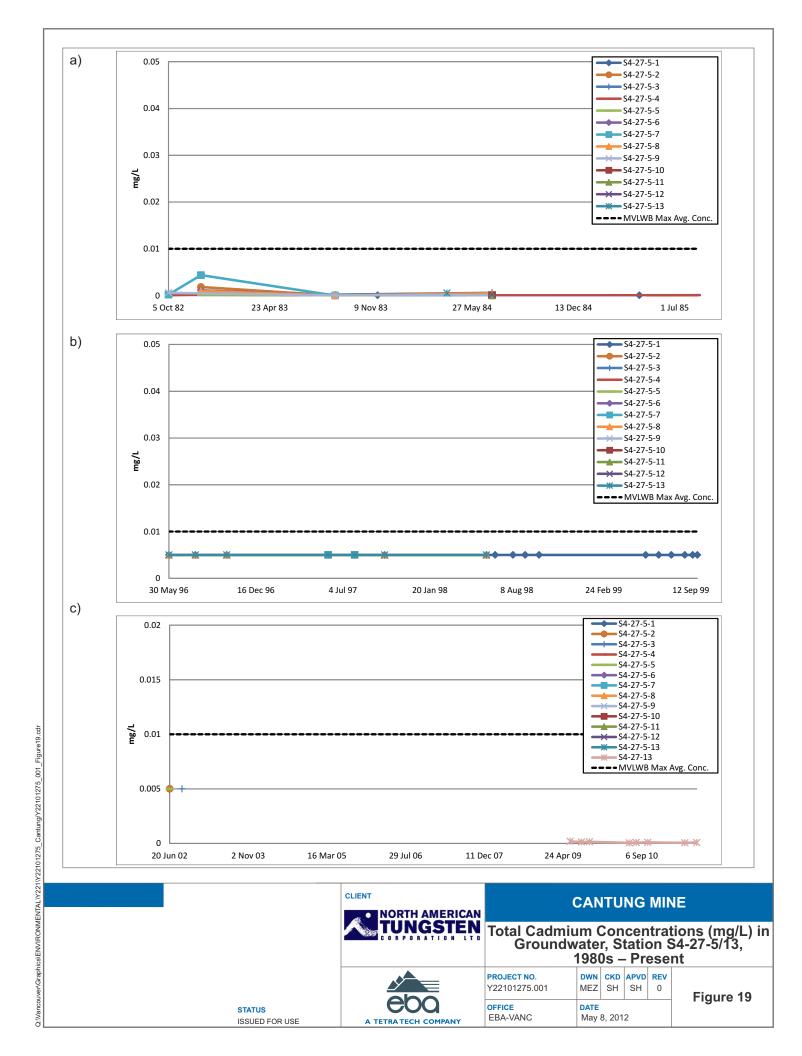
Table 9: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-5/13, 1980s – Present

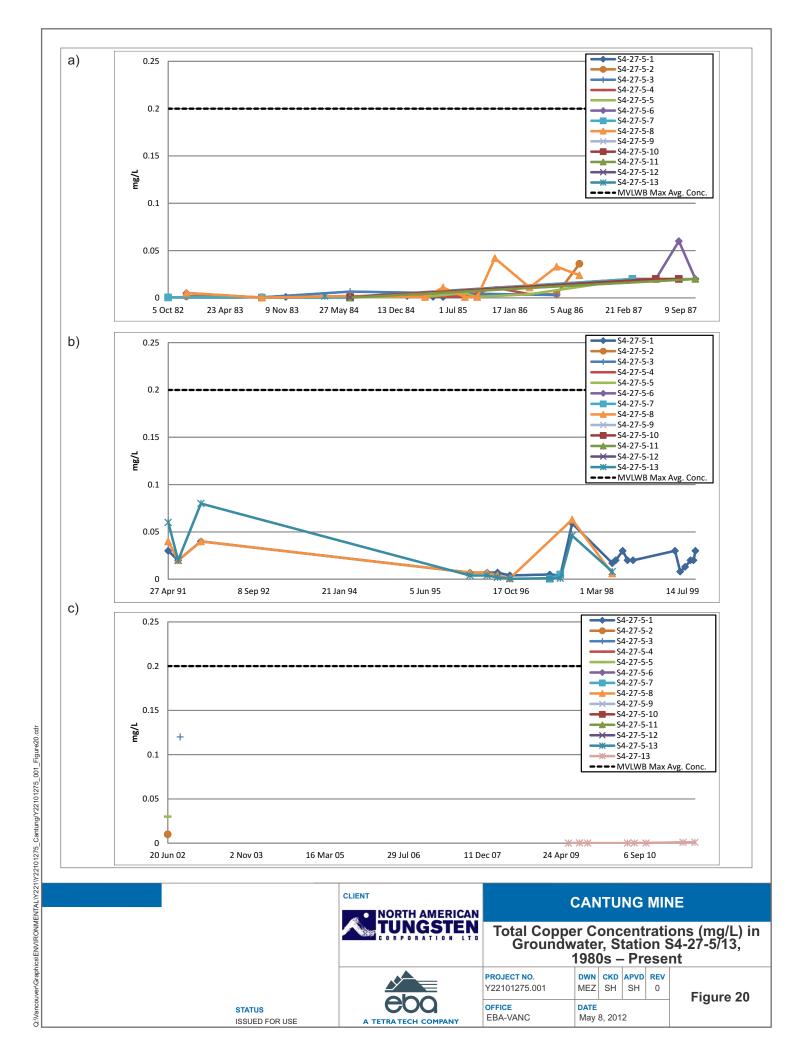
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-5-3	30/06/1986			0.003		0.018	
S4-27-5-3	07/09/2002	<0.2	<0.01	0.12	< 0.05	0.17	691
S4-27-5-4	05/10/1982	0.000001	<0.0002	<0.001	<0.001	0.015	
S4-27-5-4	08/12/1982	<0.001	0.00023	<0.001	<0.0025	0.017	23
S4-27-5-4	30/08/1983	0.0023	<0.00005	<0.0005	0.002	<0.005	<5
S4-27-5-4	05/07/1984	<0.001	<0.0001	0.0006	<0.001	<0.01	13
S4-27-5-4	14/08/1985	<0.001	0.0001	0.0013	<0.01	0.0158	170
S4-27-5-4	25/11/1985			0.011		0.016	
S4-27-5-4	27/03/1986			0.004		0.005	
S4-27-5-5	08/12/1982	<0.001	0.00017	<0.001	<0.0025	0.014	11
S4-27-5-5	30/08/1983	0.0023	<0.00005	<0.0005	0.002	<0.005	<5
S4-27-5-5	05/07/1984	<0.001	<0.0001	0.0007	<0.001	<0.01	<5
S4-27-5-5	25/03/1985			0.001		0.005	
S4-27-5-5	27/05/1985			0.003		0.025	
S4-27-5-5	12/08/1985			0.005		0.029	90.4
S4-27-5-5	24/09/1985			0.001		0.002	
S4-27-5-5	27/03/1986			0.004			
S4-27-5-5	23/03/1987			0.02		0.04	
S4-27-5-5	13/06/1987			0.02		0.02	
S4-27-5-5	02/09/1987			0.02		0.02	
S4-27-5-5	30/10/1987			0.02		0.02	
S4-27-5-5	20/06/2002	<0.2	<0.01	0.03	< 0.05	0.053	16
S4-27-5-6	08/12/1982	<0.001	0.00115	0.0051	0.0034	0.041	120
S4-27-5-6	30/08/1983	0.0024	<0.00005	<0.0005	<0.001	<0.005	<5
S4-27-5-6	05/07/1984	<0.001	0.0001	0.0011	<0.001	0.012	<5
S4-27-5-6	23/03/1987			0.02		0.2	
S4-27-5-6	13/06/1987			0.02		0.12	
S4-27-5-6	02/09/1987			0.06		0.02	
S4-27-5-6	30/10/1987			0.02		0.02	
S4-27-5-7	05/10/1982	0.000003	0.0002	<0.001	<0.001	0.022	
S4-27-5-7	08/12/1982	0.0014	0.00438		0.1885	0.0903	1900
S4-27-5-7	30/08/1983	0.0056	<0.00005	<0.0005	<0.001	<0.005	<5
S4-27-5-7	05/07/1984	<0.001	<0.0001	0.0004	<0.001	<0.01	<5
S4-27-5-7	23/03/1987			0.02		0.12	
S4-27-5-7	31/05/1997	0.0001	<0.01	< 0.001	<0.001	0.006	3
S4-27-5-7	31/07/1997	0.0113	<0.01	0.005	0.004	0.039	26
S4-27-5-8	08/12/1982	<0.001	0.00099	0.0053	<0.0025	0.036	96
S4-27-5-8	30/08/1983	0.0024	<0.00005	<0.0005	<0.001	<0.005	<5
S4-27-5-8	05/07/1984	<0.001	0.0005	0.0021	0.0013	0.019	<5
S4-27-5-8	25/03/1985			0.001		0.005	
S4-27-5-8	27/05/1985			0.011		0.055	
S4-27-5-8	12/08/1985			0.001		<0.005	28.8
S4-27-5-8	24/09/1985			0.001		0.002	

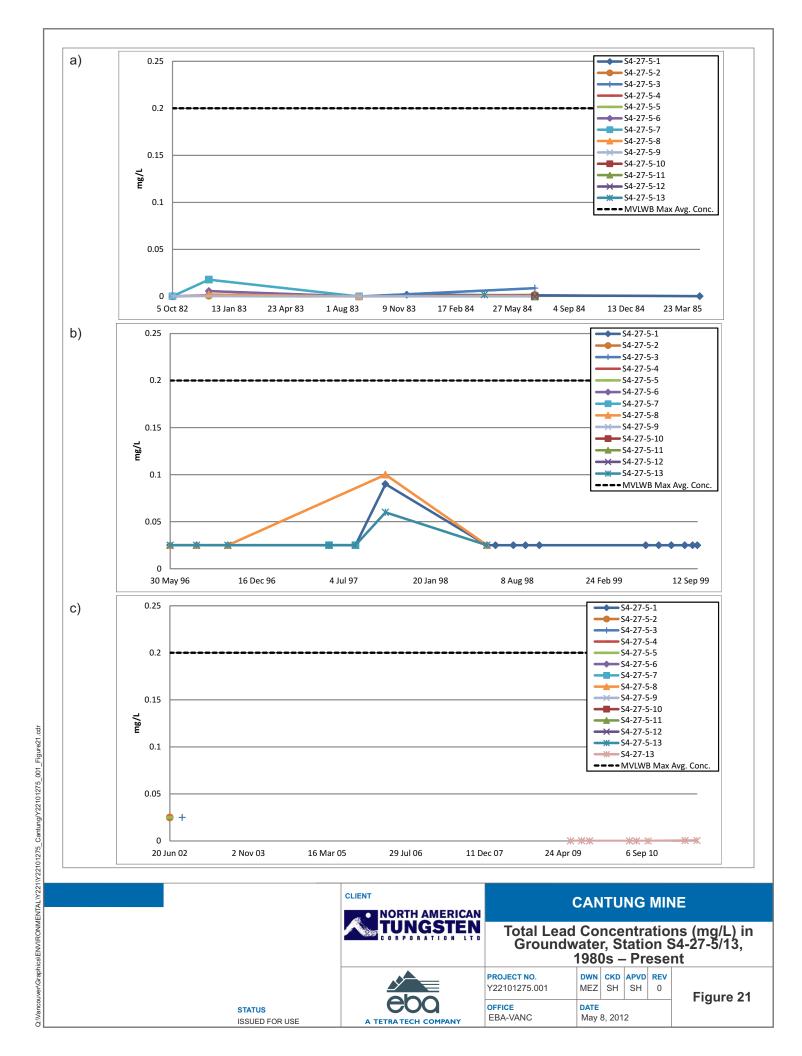
Table 9: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-5/13, 1980s – Present

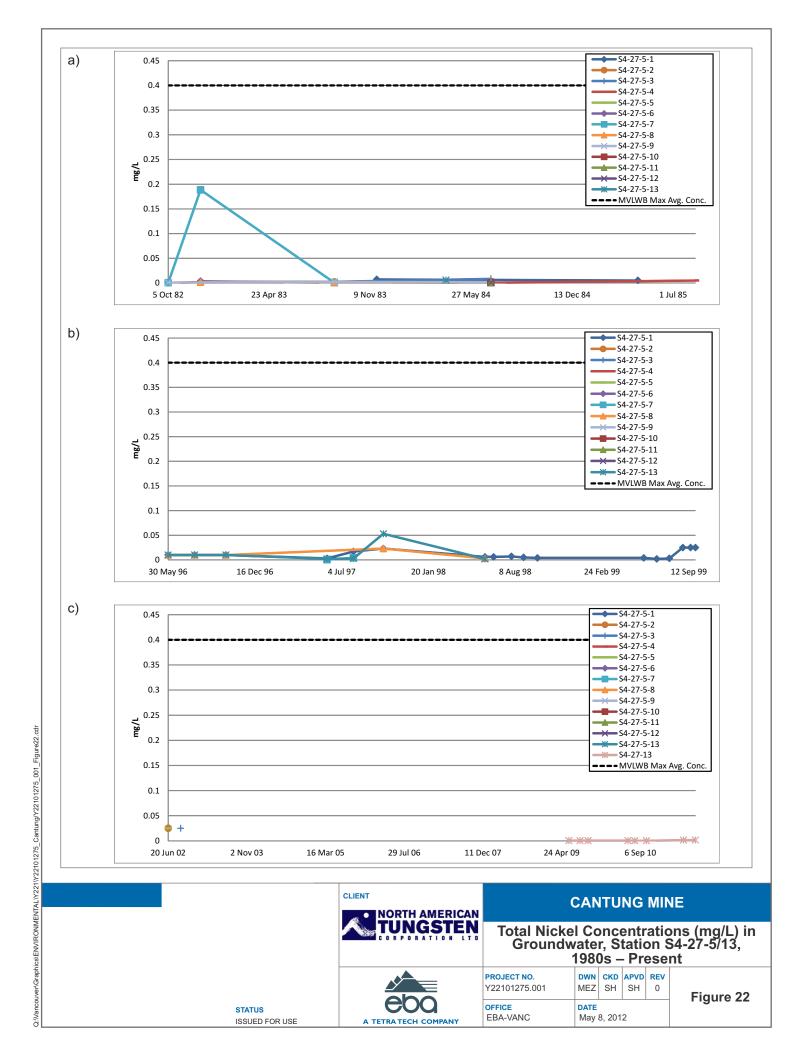
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Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-5-8	25/11/1985			0.042		0.28	
S4-27-5-8	27/03/1986			0.011		0.087	
S4-27-5-8	30/06/1986			0.033		0.2	
S4-27-5-8	18/09/1986			0.024		0.15	
S4-27-5-8	27/04/1991			0.04		0.1	
S4-27-5-8	24/06/1991			0.02		0.02	
S4-27-5-8	04/11/1991			0.04		0.2	
S4-27-5-8	20/02/1996			0.007		0.036	
S4-27-5-8	30/05/1996	<0.2	<0.01	0.007	<0.02	0.036	23
S4-27-5-8	30/07/1996	<0.2	<0.01	0.004	<0.02	0.032	6
S4-27-5-8	10/10/1996	<0.2	<0.01	0.001	<0.02	0.01	<1
S4-27-5-8	08/10/1997	0.0022	<0.01	0.063	0.023	0.171	80
S4-27-5-8	30/05/1998	0.0003	<0.01	0.006	0.003	0.026	6
S4-27-5-9	05/10/1982	0.000001	0.0006	<0.001	<0.001	0.023	
S4-27-5-9	30/08/1983	0.0026	<0.00005	0.0007	0.002	<0.005	<5
S4-27-5-9	05/07/1984	<0.001	0.0001	0.0007	0.0016	<0.01	19
S4-27-5-10	05/07/1984	<0.001	<0.0001	0.0008	<0.001	<0.01	<5
S4-27-5-10	13/06/1987			0.02		0.02	
S4-27-5-10	02/09/1987			0.02		0.12	
S4-27-5-11	05/07/1984	<0.001	<0.0001	<0.0005	<0.001	<0.01	9
S4-27-5-11	30/10/1987			0.02		0.02	
S4-27-5-12	05/07/1984	<0.001	0.0002	0.0007	<0.001	<0.01	5
S4-27-5-13	07/04/1984	0.001	0.0005	0.0019	0.0057	0.012	120
S4-27-5-13	27/04/1991			0.06		0.24	
S4-27-5-13	24/06/1991			0.02		0.04	
S4-27-5-13	04/11/1991			0.08		0.32	
S4-27-5-13	20/02/1996			0.004		0.024	
S4-27-5-13	30/05/1996	<0.2	<0.01	0.004	<0.02	0.024	51
S4-27-5-13	30/07/1996	<0.2	<0.01	0.002	<0.02	0.021	53
S4-27-5-13	10/10/1996	<0.2	<0.01	<0.001	<0.02	0.005	5
S4-27-5-13	31/05/1997	0.0012	<0.01	0.001	0.002	0.009	10
S4-27-5-13	31/07/1997	0.0051	<0.01	0.001	0.003	0.011	16
S4-27-5-13	08/10/1997	0.0122	<0.01	0.046	0.053	0.187	310
S4-27-5-13	30/05/1998	0.0004	<0.01	0.008	0.002	0.025	11
S4-27-13							
S4-27-13	09/06/2009	0.00044	0.00019	<0.0002	<0.001	<0.002	<3
S4-27-13	19/08/2009	0.00124	0.00013	0.0003	<0.001	0.0036	12.8
S4-27-13	09/10/2009	0.00107	<0.0003	<0.0002	<0.001	<0.002	<3
S4-27-13	19/06/2010	0.00041	<0.0001	<0.0002	<0.001	<0.002	<3
S4-27-13	02/08/2010	0.00087	<0.00015	0.00019	<0.0005	0.001	<3
S4-27-13	15/10/2010	0.00095	<0.0002	<0.0005	<0.0005	<0.003	<3
S4-27-13	07/06/2011	<0.001	0.000058	<0.002	<0.003	0.008	2
S4-27-13	22/08/2011	<0.001	0.000084	<0.002	<0.003	0.003	<u>-</u> <1

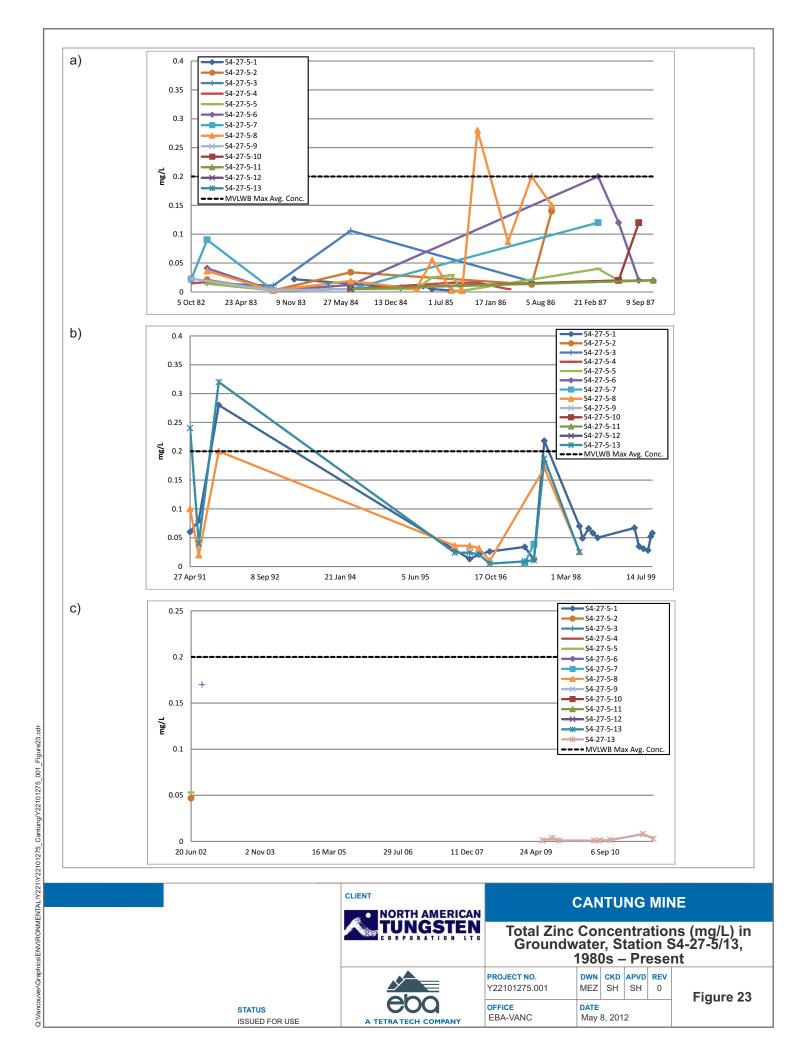


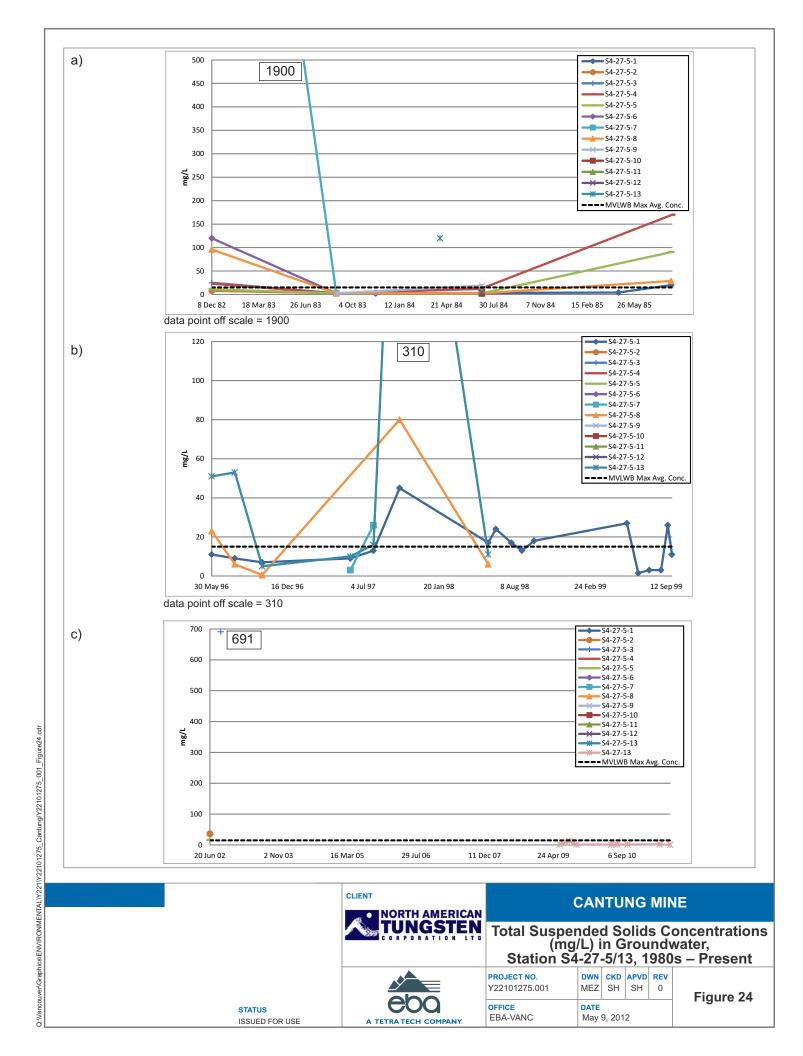












5.2.3 Groundwater Station S4-27-7

Groundwater monitoring Station S4-27-7 was established in June 1981 and is located down-gradient to the east of TP4 on the Flat River floodplain. This station, also referred to as BH 43, is a multi-level installation with a total of 12 piezometers installed at the following depths:

Piezometer 1	18.1 m	•	Piezometer 7	8.9 m
Piezometer 2	16.5 m	•	Piezometer 8	7.4 m
Piezometer 3	15.0 m	•	Piezometer 9	6.9 m
Piezometer 4	13.5 m	•	Piezometer 10	4.3 m
Piezometer 5	12.0 m	•	Piezometer 11	2.8 m
Piezometer 6	10.4 m	•	Piezometer 12	1.9 m

Figures 25 to 31 and Table 10 present all of the available groundwater quality data for Station S4-27-7 for the period of record.

As noted in Figures 25 to 31 and Table 10, during the 1980s, the concentrations of total metals in S4-27-7 groundwater at all piezometer depths were consistently below the current MVLWB MAC groundwater quality parameters, with very few exceptions. The exceptions occurred during the one day sampling events completed in May, September and November 1986 and in July 1987.

In May 1986 the groundwater in Piezometer 1 recorded slightly elevated total metals values for total arsenic (0.6 mg/l), cadmium (0.1 mg/l), lead (0.25 mg/l), nickel (2.5 mg/l) and zinc (7.5 mg/l). Both the lead and zinc values were due to the higher detection limits used at the time.

In September 1986 several total metals parameters were elevated in Piezometers 1, 2 and 4 as summarized below:

Piezometer 1 total arsenic (1.9 mg/l) and lead (0.5 mg/l)
 Piezometer 2 total arsenic (1.9 mg/l), lead (0.5 mg/l), nickel (2.5 mg/l) and zinc (7.5 mg/l)
 Piezometer 4 total copper (1.7 mg/l), lead (0.5 mg/l), nickel (2.5 mg/l) and zinc (7.5 mg/l)

In November 1986 total copper (0.8 mg/l) was elevated in Piezometer 12. As previously noted, the values recorded for total lead, nickel and zinc appeared to be largely due to the high detection limits employed at the time by the laboratory.

The other exceptions occurred in July 1987 when several metals parameters were elevated in Piezometers 2 and 5. At that time a total arsenic value of 2 mg/l was recorded in Piezometer 5 and elevated detection limit values for cadmium (0.25 mg/l), copper (0.5 mg/l) and lead (0.5 mg/l) were recorded in Piezometer 2.

During the 1980s only one notably elevated TSS value was documented and this occurred in April 1984, when a reading of 140 mg/l was recorded in Piezometer 11 at S4-27-7.

During the 1990s, when the mine was closed, the concentrations of total metals in S4-27-7 groundwater at all piezometer depths were consistently at or below the current MVLWB MAC groundwater quality parameters, one isolated exception for total zinc. In November 1991, a total zinc value of 16 mg/l was recorded in Piezometer 1.

TSS values during the 1990s, generally remained below the current MVLWB MAC groundwater quality TSS parameter, with only one elevated reading of 30 mg/l occurring in Piezometer 9 in May 1997, a couple of readings of 20 mg/l in Piezometer 3 in May and June 1998 and a single reading of 22 mg/l in Piezometer 9 in August 1999.

From the year 2000 to the present, the concentrations of total metals in S4-27-7 groundwater have consistently been well below the current MVLWB MAC groundwater quality parameters. However, TSS values in the groundwater during this period of time have occasionally been elevated above the MVLWB MAC parameters. In particular, a TSS concentration of 128 mg/l was recorded from a single sample in Piezometer 9 in October 2002 and two other slightly elevated TSS values were recorded from this Piezometer in October 2007 (34.4 mg/l) and in June 2010 (39.5 mg/l).

Table 10: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-7, 1980s – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-7								
S4-27-7-1	22/11/1983	0.0018	<0.0001	<0.0005	0.0011	0.0043	<0.01	<5
S4-27-7-1	05/07/1984	<0.001	<0.0001	0.0009	<0.0001	<0.001	0.01	<5
S4-27-7-1	21/01/1985			0.001			0.005	
S4-27-7-1	25/03/1985			0.001			0.005	
S4-27-7-1	22/04/1985	<0.001	<0.0001	0.0012	<0.0001	<0.01	<0.02	<5
S4-27-7-1	27/05/1985			0.001			0.005	
S4-27-7-1	12/08/1985			<0.001			<0.005	12.2
S4-27-7-1	14/08/1985	<0.001	0.0003	<0.0005		<0.01	<0.015	<5
S4-27-7-1	24/09/1985			0.001			0.004	
S4-27-7-1	25/11/1985			0.003			0.005	
S4-27-7-1	27/05/1986	0.6	0.1	<0.5	<0.5	<5	<15	<5
S4-27-7-1	30/06/1986			0.003			0.005	
S4-27-7-1	08/09/1986	1.9		<0.5	<1	<5	<15	<3
S4-27-7-1	18/09/1986			0.001			0.024	
S4-27-7-1	24/11/1986			0.02			0.04	
S4-27-7-1	23/03/1987			0.02			0.1	
S4-27-7-1	13/06/1987			0.02			0.02	
S4-27-7-1	02/09/1987			0.02			0.02	
S4-27-7-1	30/10/1987			0.02			0.02	
S4-27-7-1	24/06/1991			0.02			0.12	
S4-27-7-1	04/11/1991			0.01			0.16	
S4-27-7-1	30/07/1996	<0.2	<0.01	<0.001	<0.05	<0.02	0.014	3
S4-27-7-1	12/10/1996	<0.2	<0.01	<0.001	<0.05	<0.02	0.01	1
S4-27-7-1	31/07/1997	0.0072	<0.01	<0.001	<0.05	<0.002	0.007	<1
S4-27-7-1	10/10/1997	0.0015	<0.01	<0.001	< 0.05	0.001	0.006	8

Table 10: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-7, 1980s – Present

Station	Date	Arsenic	Cadmium	Copper	Lead	Nickel	Zinc	TSS
	Sampled	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
S4-27-7-1	27/08/1998	0.0015	<0.01	<0.001	<0.05	0.001	0.013	4
S4-27-7-1	31/05/1999	0.0011	<0.01	<0.001	<0.05	0.001	0.009	<3
S4-27-7-1	16/09/1999	<0.2	<0.01	<0.01	<0.05	<0.05	0.01	<3
S4-27-7-1	27/05/2001			<0.01			0.007	<3
S4-27-7-1	02/06/2001			<0.01			0.006	<3
S4-27-7-1	20/06/2002	<0.2	<0.01	<0.01	< 0.05	< 0.05	0.017	6
S4-27-7-1	07/08/2002	<0.2	<0.01	<0.01	< 0.05	< 0.05	<0.005	<3
S4-27-7-1	06/09/2002	<0.2	<0.01	<0.01	< 0.05	< 0.05	0.005	24
S4-27-7-1	17/10/2005	0.00163	0.000095	0.00012	<0.00005	0.0008	0.0039	<3
S4-27-7-1	20/06/2006	0.00176	0.000167	0.00034	<0.00005	0.00069	0.0049	3.3
S4-27-7-1	23/07/2006	0.00175	<0.00005	0.00021	<0.00005	0.00076	0.0053	<3
S4-27-7-1	02/09/2006	0.00185	0.000207	0.0004	<0.00005	0.00078	0.0047	<3
S4-27-7-1	20/07/2007	0.00152	0.000084	<0.0001	<0.00005	0.00102	0.007	3.8
S4-27-7-1	19/08/2007	0.00165	0.00008	<0.0001	<0.00005	0.00099	0.0034	7.3
S4-27-7-1	05/07/2008	0.00162	0.000145	0.00019	<0.00005	0.00122	0.006	9.3
S4-27-7-1	16/08/2008	0.00165	<0.00005	0.00016	<0.00005	0.00103	0.0064	<3
S4-27-7-1	09/06/2009	0.00134	<0.00005	0.00017	<0.00005	0.00075	0.0035	<3
S4-27-7-1	18/08/2009	0.00131	<0.00005	<0.0001	<0.00005	0.00129	0.0038	<3
S4-27-7-1	19/06/2010	0.00099	<0.00005	<0.0012	<0.00005	0.00135	0.0037	<3
S4-27-7-1	02/08/2010	0.00091	<0.00005	<0.0009	<0.00005	0.00099	0.0025	<3
S4-27-7-1	16/10/2010	0.00107	<0.00005	<0.0005	<0.00005	0.00167	< 0.003	<3
S4-27-7-1	07/06/2011	0.001	<0.000025	<0.002	<0.001	0.005	0.005	<2
S4-27-7-1	21/08/2011	0.001	<0.000025	<0.002	<0.001	0.004	0.005	<1
S4-27-7-2	22/11/1983	0.0023	<0.0001	<0.0005	0.0016	0.0042	<0.01	<5
S4-27-7-2	05/07/1984	<0.001	<0.0001	0.0008	<0.0001	<0.001	0.016	<5
S4-27-7-2	08/09/1986	1.9		<0.5	<1	<5	<15	11
S4-27-7-2	17/07/1987	1	<0.5	<1	<1	<1	<1	<2
S4-27-7-2	30/10/1987			0.02			0.04	
S4-27-7-2	30/06/1999	0.0026	<0.01	<0.001	< 0.05	<0.001	0.01	13
S4-27-7-2	29/07/1999	0.0033	<0.01	<0.003	<0.05	0.001	0.016	<3
S4-27-7-3	22/11/1983	0.003	<0.0001	<0.0005	0.0025	0.0037	<0.01	<5
S4-27-7-3	05/07/1984	<0.001	<0.0001	0.0006	<0.0001	<0.001	0.016	<5
S4-27-7-3	30/10/1987			0.02			0.04	
S4-27-7-3	30/05/1998	0.0019	<0.01	<0.001	< 0.05	<0.001	0.006	21
S4-27-7-3	20/06/1998	0.002	<0.01	<0.001	<0.05	<0.001	0.009	21
S4-27-7-3	27/08/1998	0.0019	<0.01	<0.001	<0.05	<0.001	<0.005	10
S4-27-7-4	05/07/1984	0.0014	<0.0001	0.0011	<0.0001	<0.001	0.044	<5
S4-27-7-4	25/11/1985			0.002			0.005	
S4-27-7-4	27/03/1986			0.032			0.016	
S4-27-7-4	08/09/1986	<0.5		1.7	<1	<5	<15	<3
S4-27-7-4	13/06/1987			0.02			0.02	
S4-27-7-4	02/09/1987			0.02			-	
S4-27-7-4	31/05/1997	0.0015	<0.01	0.004	<0.05	0.001	0.103	3

Table 10: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-7, 1980s – Present

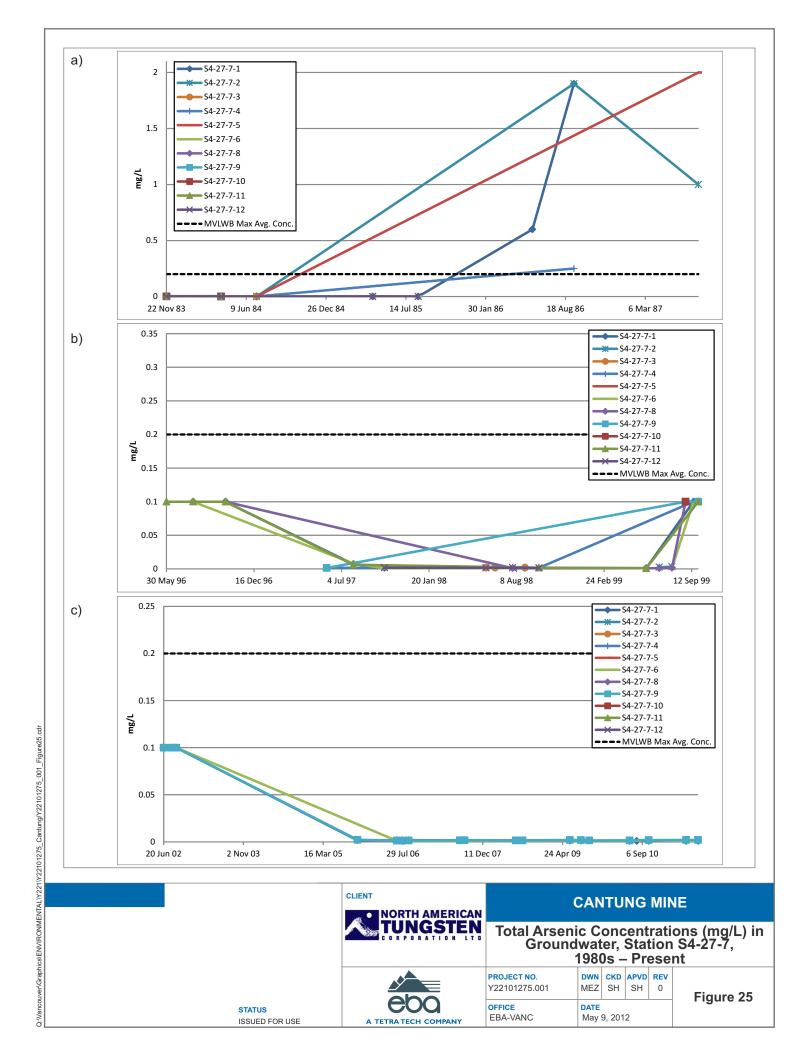
1980s - Prese Station	Date	Arsenic	Cadmium	Copper	Lead	Nickel	Zinc	TSS
04.07.7.4	Sampled	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
S4-27-7-4	30/07/1998	0.0017	<0.01	<0.001	<0.05	<0.001	0.006	5
S4-27-7-4	28/09/1998	0.0016	<0.01	<0.001	<0.05	<0.001	0.006	6
S4-27-7-4	16/09/1999	<0.2	<0.01	<0.01	<0.05	<0.05	0.007	<3
S4-27-7-5	22/11/1983	0.0024	<0.0001	<0.0005	0.0033	0.0031	0.013	<5
S4-27-7-5	05/07/1984	0.001	<0.0001	0.0007	<0.0001	<0.001	0.011	<5
S4-27-7-5	17/07/1987	2	<0.5	<1	<1	<1	<1	2
S4-27-7-6	22/11/1983	0.0012	<0.0001	<0.0005	0.0038	0.0037	<0.01	<5
S4-27-7-6	05/07/1984	<0.001	<0.0001	0.0013	<0.0001	<0.001	0.012	<5
S4-27-7-6	21/01/1985			0.001			0.005	
S4-27-7-6	25/03/1985			0.001			0.005	_
S4-27-7-6	22/04/1985	<0.001	<0.0001	0.0008	<0.0001	<0.01	0.021	<5
S4-27-7-6	27/05/1985			0.001			0.005	
S4-27-7-6	12/08/1985			<0.001			<0.005	22.8
S4-27-7-6	14/08/1985	<0.001	<0.0001	0.0005		<0.01	<0.015	<5
S4-27-7-6	24/09/1985			0.001			0.002	
S4-27-7-6	30/06/1986			0.003			0.028	
S4-27-7-6	18/09/1986			0.001			0.005	
S4-27-7-6	24/11/1986			0.02			0.06	
S4-27-7-6	24/06/1991			0.02			0.02	
S4-27-7-6	04/11/1991			0.01			0.2	
S4-27-7-6	30/07/1996	<0.2	<0.01	<0.001	<0.05	<0.02	0.006	1
S4-27-7-6	31/07/1997	0.0082	<0.01	<0.001	<0.05	<0.002	0.008	2
S4-27-7-6	10/10/1997	0.0009	<0.01	<0.001	<0.05	<0.001	0.006	3
S4-27-7-6	30/05/1998	0.001	<0.01	<0.001	<0.05	<0.001	0.01	4
S4-27-7-6	20/06/1998	0.0011	<0.01	<0.001	<0.05	<0.001	0.011	1
S4-27-7-6	27/08/1998	0.0009	<0.01	0.008	<0.05	<0.001	<0.005	2
S4-27-7-6	30/06/1999	0.0011	<0.01	<0.001	<0.05	<0.001	<0.005	<3
S4-27-7-6	29/07/1999	0.0015	<0.01	<0.002	<0.05	0.003	<0.005	<3
S4-27-7-6	16/09/1999	<0.2	<0.01	<0.01	<0.05	<0.05	<0.005	<3
S4-27-7-6	20/06/2002	<0.2	<0.01	<0.01	<0.05	<0.05	0.009	8
S4-27-7-6	07/08/2002	<0.2	<0.01	<0.01	<0.05	<0.05	0.007	<3
S4-27-7-6	06/09/2002	<0.2	<0.01	<0.01	<0.05	<0.05	0.006	28
S4-27-7-6	20/06/2006	0.00111	0.000201	0.00032	<0.00005	0.00052	0.0033	<3
S4-27-7-6	23/07/2006	0.00117	0.00022	0.00046	<0.00005	0.00056	0.005	<3
S4-27-7-6	02/09/2006	0.00116	0.000081	<0.0001	<0.00005	<0.0005	0.002	<3
S4-27-7-6	20/07/2007	0.00108	<0.00005	0.0145	0.000114	0.00067	0.0041	<3
S4-27-7-6	19/08/2007	0.00115	0.000096	0.0002	<0.00005	0.00061	0.0023	16
S4-27-7-6	05/07/2008	0.00146	0.00012	0.00049		0.00064	0.0062	<3
S4-27-7-6	16/08/2008	0.00129	<0.00005	<0.0001	0.00005	0.00056	0.0053	7.7
S4-27-7-6	09/06/2009	0.00135	<0.00005	0.00049	0.000361	<0.0005	0.0129	6.2
S4-27-7-6	18/08/2009	0.00138	<0.00005	0.00026	<0.00005	0.00077	0.0027	<3
S4-27-7-6	09/10/2009	0.00144	<0.0001	<0.0002	<0.0001	<0.001	<0.002	<3
S4-27-7-6	19/06/2010	0.00129	<0.00005	0.00021	0.000077	0.00081	0.0032	6

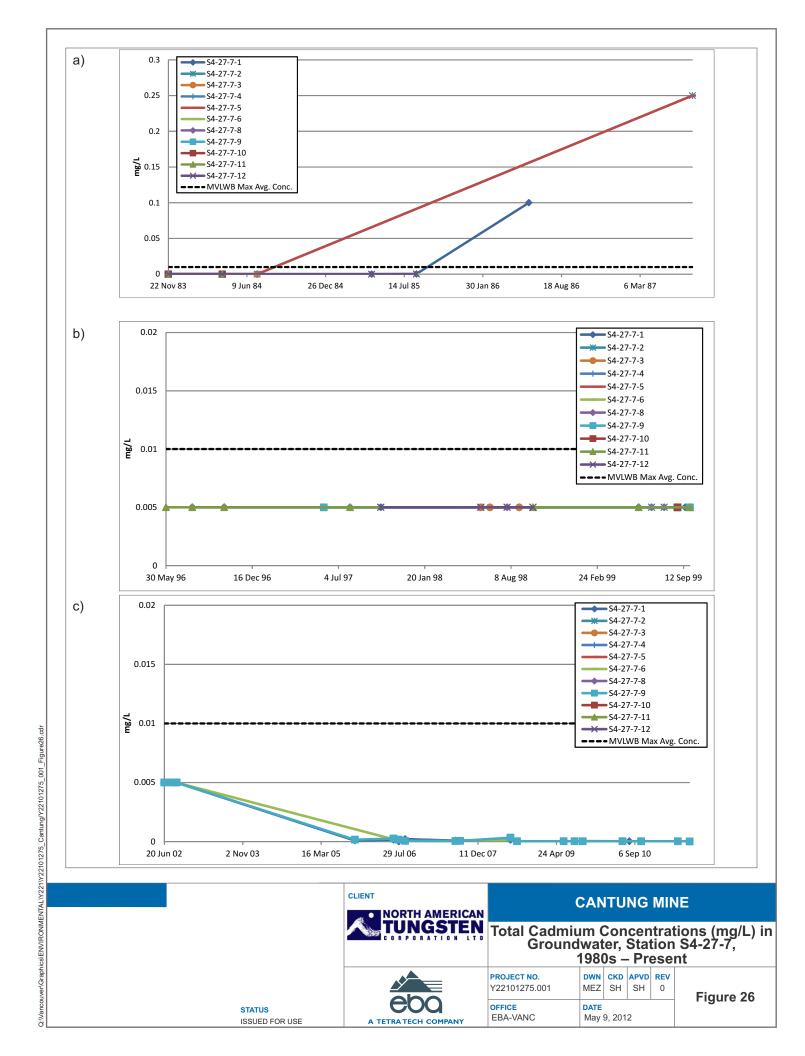
Table 10: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-7, 1980s – Present

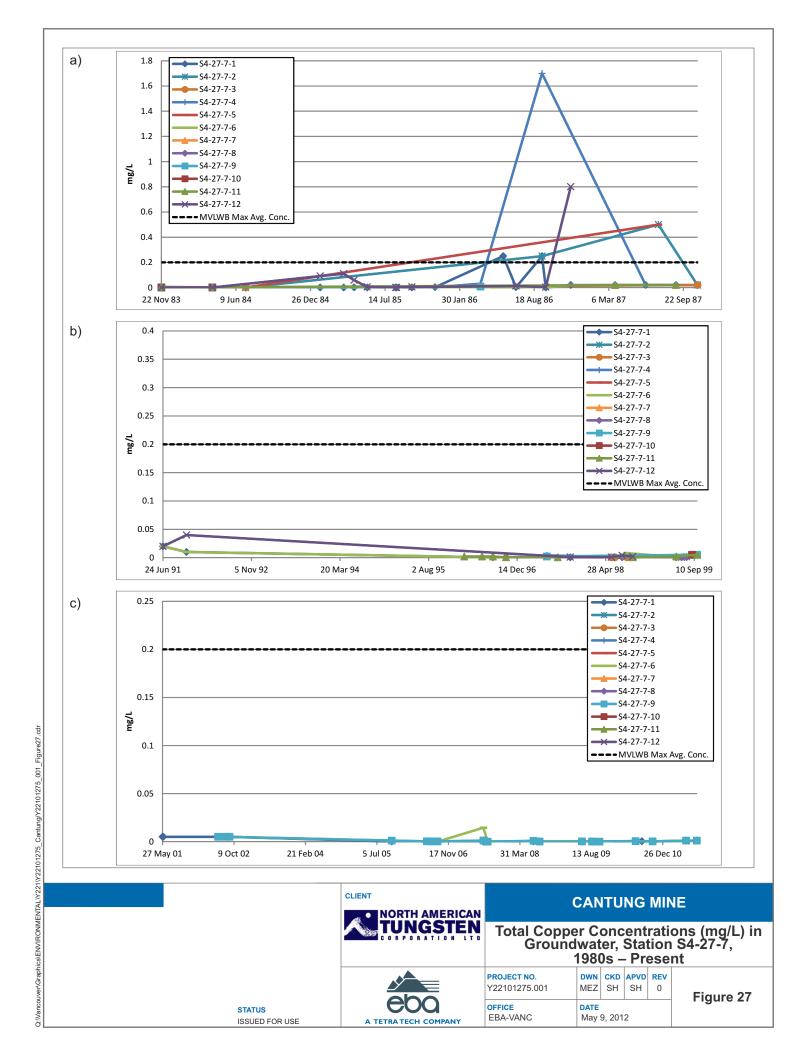
980s – Presei		I	1					
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-7-6	02/08/2010	0.00127	<0.00005	0.00028	< 0.00005	0.0008	<0.001	<3
S4-27-7-6	16/10/2010	0.00165	<0.00005	<0.0005	0.000062	0.00065	<0.003	<3
S4-27-7-6	07/06/2011	0.001	<0.000025	<0.002	<0.001	0.005	0.011	<2
S4-27-7-6	21/08/2011	0.001	<0.000025	<0.002	<0.001	0.004	0.005	<1
S4-27-7-7	23/03/1987			0.02			0.04	
S4-27-7-7	13/06/1987						0.02	
S4-27-7-7	02/09/1987						0.02	
S4-27-7-8	22/11/1983	0.0018	<0.0001	<0.0005	0.004	0.0026	0.013	<5
S4-27-7-8	07/04/1984	<0.001	<0.0001	0.0008	<0.0001	<0.001	<0.01	<5
S4-27-7-8	12/10/1996	<0.2	<0.01	0.001	< 0.05	<0.02	0.035	6
S4-27-7-8	30/07/1998	0.0011	<0.01	<0.001	< 0.05	0.001	0.017	<1
S4-27-7-8	30/06/1999	0.001	<0.01	<0.001	< 0.05	<0.001	0.01	5
S4-27-7-8	29/07/1999	0.0016	<0.01	<0.002	< 0.05	<0.001	0.01	<3
S4-27-7-8	29/08/1999	<0.2	<0.01	<0.01	<0.05	<0.05	0.008	<3
S4-27-7-8	27/09/1999	<0.2	<0.01	<0.01	<0.05	<0.05	<0.005	<3
S4-27-7-9	22/11/1983	0.0017	<0.0001	<0.0005	0.0035	0.0017	<0.01	<5
S4-27-7-9	07/04/1984	<0.001	<0.0001	0.001	<0.0001	<0.001	0.013	<5
S4-27-7-9	27/03/1986			0.008			0.024	
S4-27-7-9	31/05/1997	0.0014	<0.01	0.002	<0.05	0.001	0.029	30
S4-27-7-9	29/08/1999	<0.2	<0.01	<0.01	<0.05	<0.05	0.02	22
S4-27-7-9	27/09/1999	<0.2	<0.01	<0.01	<0.05	<0.05	0.01	12
S4-27-7-9	20/06/2002	<0.2	<0.01	<0.01	<0.05	<0.05	0.01	5
S4-27-7-9	07/08/2002	<0.2	<0.01	<0.01	<0.05	<0.05	0.023	128
S4-27-7-9	07/09/2002	<0.2	<0.01	<0.01	<0.05	<0.05	0.006	24
S4-27-7-9	17/10/2005	0.0022	0.000163	0.00109	0.000154	<0.0005	0.0052	3.1
S4-27-7-9	20/06/2006	0.00137	0.000256	0.00033	<0.00005	<0.0005	0.0048	18.7
S4-27-7-9	23/07/2006	0.00136	0.000167	0.00029	<0.00005	<0.0005	0.0107	<3
S4-27-7-9	02/09/2006	0.0015	0.000059	0.00028	0.000077	<0.0005	0.0024	<3
S4-27-7-9	20/07/2007	0.00168	0.00005	0.00119	0.000086	<0.0005	0.0026	5.8
S4-27-7-9	19/08/2007	0.00175	0.000061	<0.0001	<0.00005	<0.0005	<0.001	34.7
S4-27-7-9	05/07/2008	0.00156	0.000334	0.00086	0.000445	0.00097	0.0104	3.9
S4-27-7-9	16/08/2008	0.00161	<0.00005	0.00011	<0.00005	<0.0005	0.0035	3
S4-27-7-9	09/06/2009	0.00202	<0.00005	0.00021	0.000078	<0.0005	<0.002	4.2
S4-27-7-9	18/08/2009	0.00197	<0.00005	0.00011	<0.00005	<0.0005	<0.001	4.2
S4-27-7-9	09/10/2009	0.00152	<0.00005	<0.0001	<0.00005	<0.0005	0.0013	3.3
S4-27-7-9	19/06/2010	0.00162	<0.00005	0.00049	0.000315	0.00094	0.0049	39.5
S4-27-7-9	16/10/2010	0.0019	<0.00005	<0.0005	0.000054	<0.0005	<0.003	3.7
S4-27-7-9	07/06/2011	0.002	0.000025	<0.002	<0.001	0.005	0.008	4
S4-27-7-9	21/08/2011	0.002	<0.000025	<0.002	<0.001	0.003	0.003	3
S4-27-7-10	22/11/1983	0.0013	<0.0001	<0.0005	0.0034	0.0026	<0.01	<5
S4-27-7-10	07/04/1984	<0.001	<0.0001	0.001	<0.0001	<0.001	0.012	<5
S4-27-7-10	29/08/1999	<0.2	<0.01	<0.01	<0.05	<0.05	0.012	15
S4-27-7-11	22/11/1983	0.0035	<0.0001	0.0053	0.0017	0.0081	0.018	23

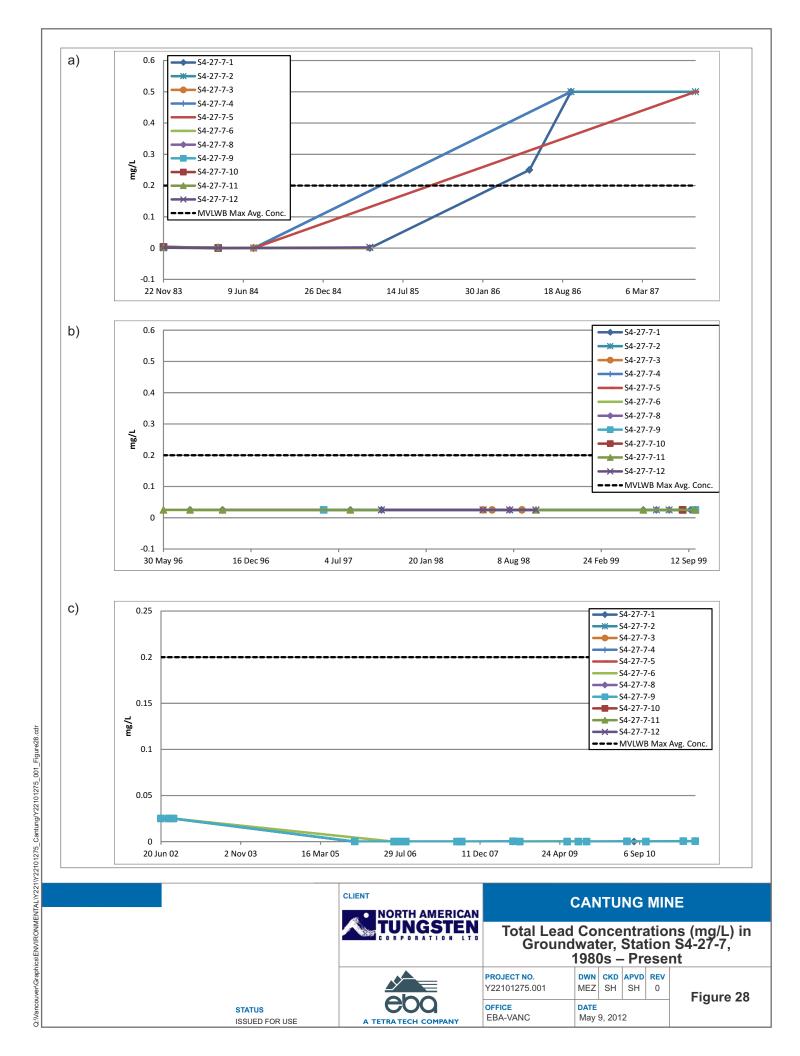
Table 10: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-7, 1980s – Present

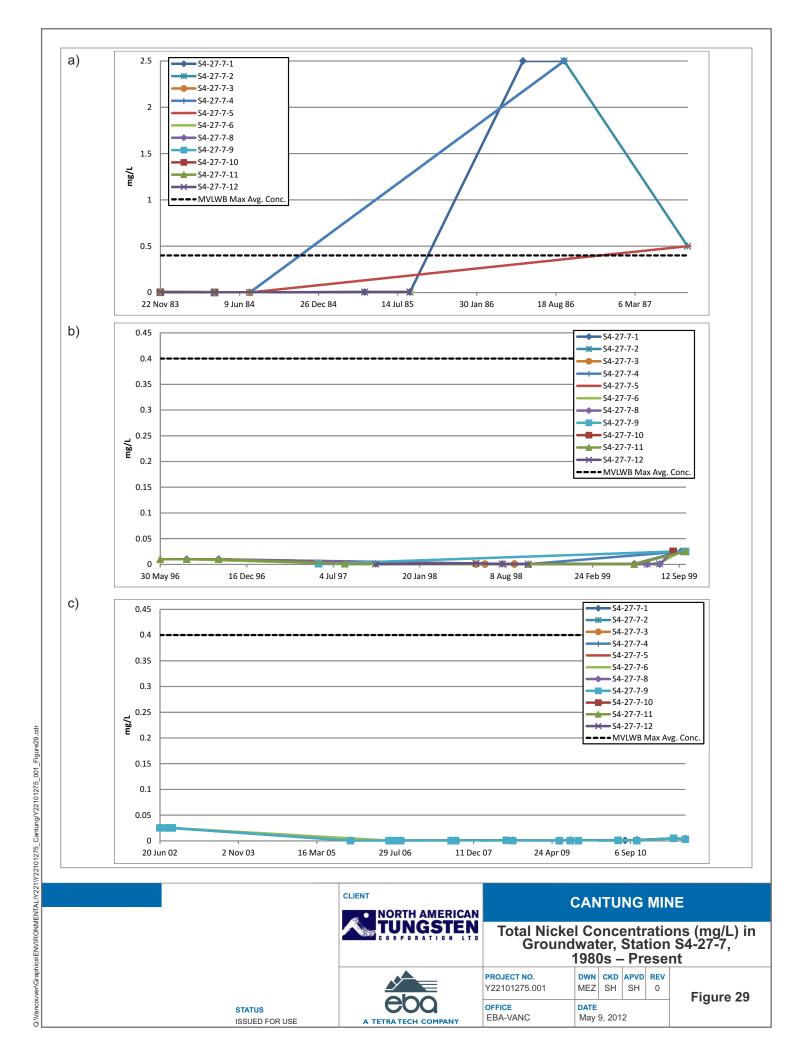
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-7-11	07/04/1984	0.0038	<0.0001	0.0023	0.0025	0.006	0.011	140
S4-27-7-11	23/03/1987			0.02				
S4-27-7-11	02/09/1987			0.02				
S4-27-7-11	20/02/1996			0.002				
S4-27-7-11	30/05/1996	<0.2	<0.01	0.002	<0.05	<0.02	0.008	<1
S4-27-7-11	30/07/1996	<0.2	<0.01	0.002	<0.05	<0.02	0.01	8
S4-27-7-11	12/10/1996	<0.2	<0.01	<0.001	<0.05	<0.02	0.006	6
S4-27-7-11	31/07/1997	0.0062	<0.01	<0.001	<0.05	<0.002	<0.005	13
S4-27-7-11	28/09/1998	0.0018	<0.01	<0.001	<0.05	<0.001	<0.005	7
S4-27-7-11	31/05/1999	0.001	<0.01	0.002	<0.05	<0.001	0.005	5
S4-27-7-11	27/09/1999	<0.2	<0.01	<0.01	<0.05	<0.05	<0.005	<3
S4-27-7-12	22/11/1983	0.0015	<0.0001	<0.0005	0.0015	0.0048	<0.01	<5
S4-27-7-12	07/04/1984	<0.001	<0.0001	0.0009	<0.0001	<0.001	0.01	<5
S4-27-7-12	21/01/1985			0.092			0.022	
S4-27-7-12	25/03/1985			0.11			0.012	
S4-27-7-12	22/04/1985	0.0011	<0.0001	0.0593	0.00207	<0.01	0.031	<5
S4-27-7-12	27/05/1985			0.006			0.005	
S4-27-7-12	12/08/1985			<0.001			<0.005	<1
S4-27-7-12	14/08/1985	<0.001	0.0002	0.0007		<0.01	<0.015	<5
S4-27-7-12	24/09/1985			0.005			0.007	
S4-27-7-12	27/03/1986						0.064	
S4-27-7-12	30/06/1986			0.013			0.72	
S4-27-7-12	18/09/1986			0.004			0.2	
S4-27-7-12	24/11/1986			0.8			5.10	
S4-27-7-12	23/03/1987						0.04	
S4-27-7-12	13/06/1987						0.02	
S4-27-7-12	02/09/1987						0.02	
S4-27-7-12	30/10/1987						0.04	
S4-27-7-12	27/04/1991						0.06	
S4-27-7-12	24/06/1991			0.02			0.02	
S4-27-7-12	04/11/1991			0.04			0.28	
S4-27-7-12	10/10/1997	0.0018	<0.01	0.001	<0.05	<0.001	0.009	11
S4-27-7-12	30/05/1998	0.0015	<0.01	0.001	<0.05	0.002	0.016	3
S4-27-7-12	30/07/1998	0.0018	<0.01	0.004	<0.05	<0.001	0.038	<1
S4-27-7-12	28/09/1998	0.0015	<0.01	0.002	< 0.05	<0.001	0.015	3

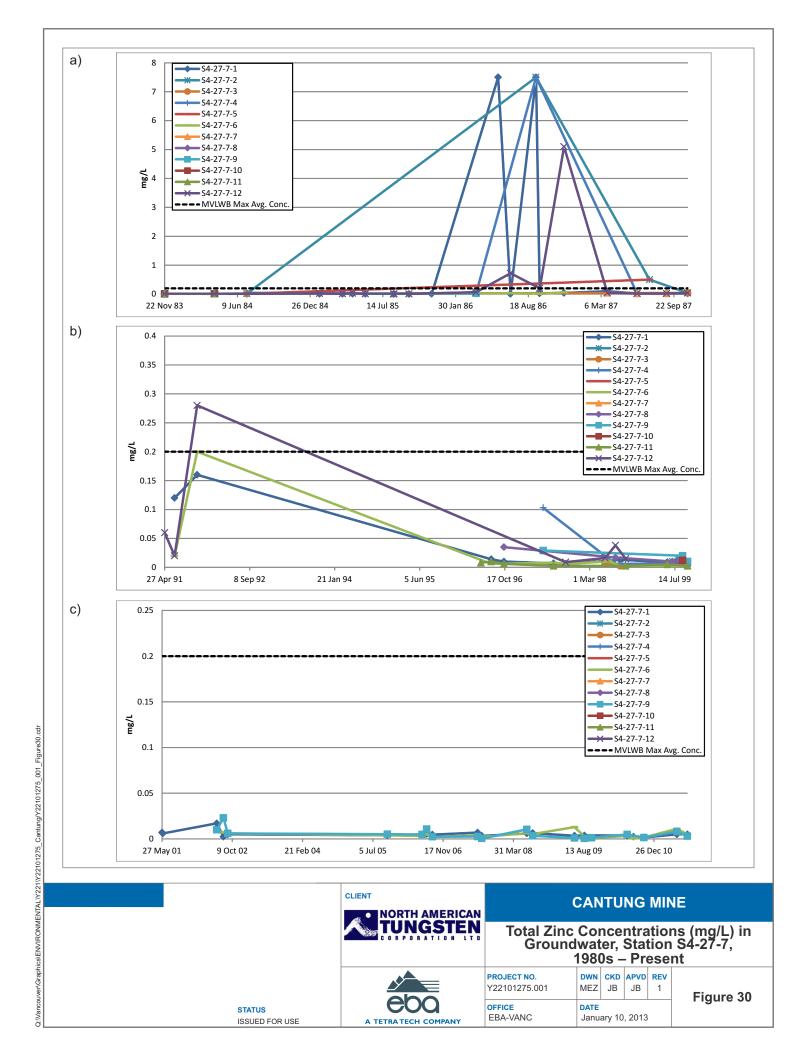


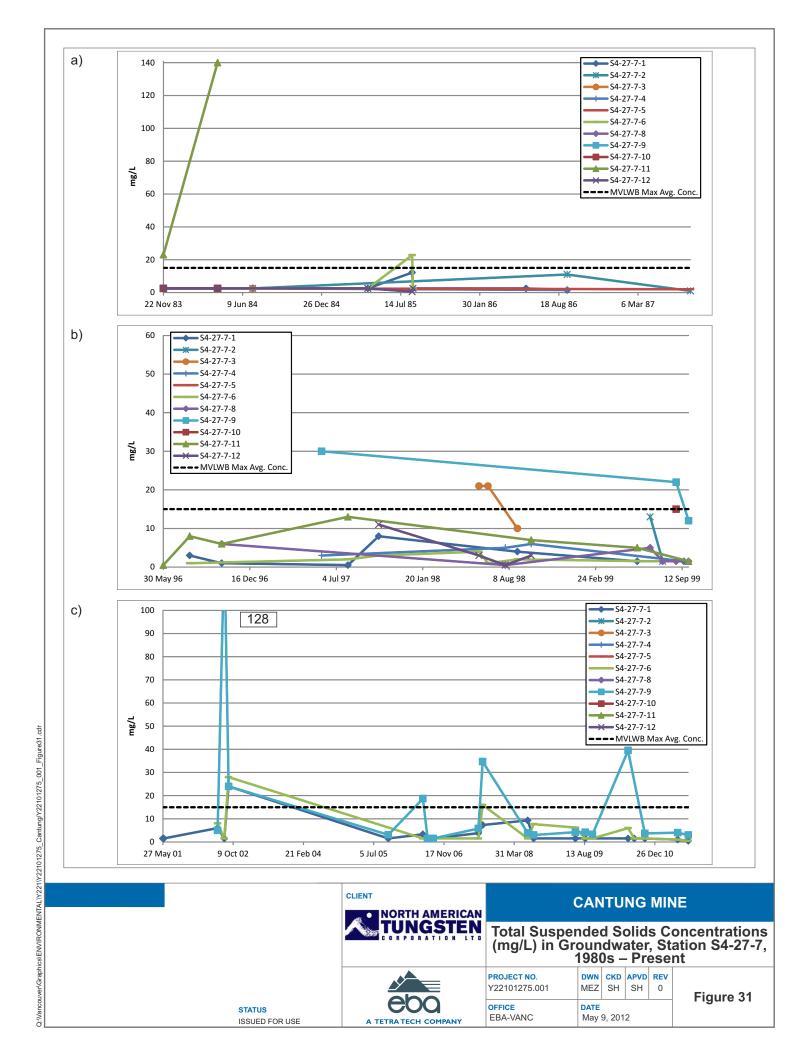












5.2.4 Groundwater Station S4-28-I

Groundwater monitoring Station S4-28-1 was established in 1983 as a pumping well to demonstrate the feasibility of the pumping well contingency system. In 2003 this groundwater station was designated as a MMER Final Discharge Point for the ex-filtrated Cantung Mine tailings water. This station is located downgradient of TP3 beside the road to the airstrip, which parallels the Flat River. It is has also been referred to as MW-6 and pumping well PW1.

Figures 32 to 34 and Table 11 present all of the available groundwater quality data for Station S4-28-1 for the period of record. As noted in Table 11 and the associated figures, since August 2003, when this station was designated as a MMER final discharge point, up to the present time, the concentrations of total metals in S4-28-1 groundwater from this well have consistently remained below the current MVLWB MAC and MMER groundwater quality parameters, with only one exception. The exception was recorded in May 2006, when a single isolated reading of 0.287 mg/l of total zinc was registered. This value is slightly above the MVLWB MAC of 0.2 mg/l, but still well below the MMER limit of 0.5 mg/l.

TSS values recorded at Station S4-28-1 were elevated above regulatory limits for periods of time in May and June 2006, coincident with spring freshet, with the highest TSS reading being a value of 29.2 mg/l recorded in June 2006. In addition two isolated elevated TSS values of 29.7 and 31.3 mg/l were recorded in March 2007 and 2009, respectively. Since that time, TSS values at Station S4-28-1 have consistently remained below 3 mg/l.

Table 11: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-28-1, 2003 – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-28-1								
S4-28-1	12/08/2003	<0.0005	<0.01	0.01	<0.06	< 0.05	0.062	9
S4-28-1	20/08/2003	0.0005	<0.01	<0.01	< 0.05	<0.05	0.057	19
S4-28-1	26/08/2003	0.0006	<0.01	<0.01	< 0.05	<0.05	0.035	14
S4-28-1	28/09/2003	<0.002	<0.01	<0.01	< 0.05	<0.05	0.022	7
S4-28-1	06/10/2003	<0.2	<0.01	<0.01	< 0.05	<0.05	0.0242	4
S4-28-1	14/10/2003	<0.2	<0.01	<0.01	< 0.05	<0.05	0.0259	8.6
S4-28-1	21/10/2003	<0.002	<0.01	<0.01	< 0.05	<0.05	0.0099	5
S4-28-1	28/10/2003	<0.003	<0.01	<0.01	< 0.05	<0.05	0.0111	4.8
S4-28-1	17/07/2005	0.00087	<0.00005	<0.0001	0.000275	0.00178	0.0063	<3
S4-28-1	14/08/2005	<0.0001	0.000243	0.00051	0.000109	<0.0005	0.0044	8.9
S4-28-1	17/10/2005	<0.0002	<0.0001	<0.0002	<0.0001	<0.001	<0.002	3.7
S4-28-1	21/11/2005	<0.0001	0.000096	<0.0001	<0.00005	<0.0005	0.0021	<3
S4-28-1	08/01/2006	<0.0001	<0.00005	<0.0001	< 0.00005	<0.0005	0.0014	22.6
S4-28-1	29/01/2006	<0.0001	<0.00005	<0.0001	0.000139	<0.0005	0.0119	7
S4-28-1	05/02/2006	0.00013	<0.00005	<0.003	0.000361	0.00088	0.0089	15.8
S4-28-1	13/02/2006	0.0002	<0.00005	<0.004	0.000328	0.00113	0.0067	19.4
S4-28-1	19/02/2006	<0.0001	<0.00005	<0.002	0.000099	<0.0005	<0.006	8.3
S4-28-1	01/03/2006	<0.0002	<0.0001	0.00147	0.00032	<0.001	0.0078	26.8
S4-28-1	05/03/2006	<0.0002	0.00016	0.00069	0.00011	0.0018	0.0052	14

Table 11: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-28-1, 2003 – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-28-1	15/03/2006	0.00025	0.0004	0.0009	0.00018	0.0033	0.0148	8.2
S4-28-1	19/03/2006	0.00027	0.00055	<0.0002	0.00012	0.0052	0.0128	6.2
S4-28-1	29/03/2006	0.00031	0.00058	0.00405	0.00071	0.0049	0.0157	14.8
S4-28-1	02/04/2006	0.00037	0.000432	<0.0005	<0.00005	0.00439	0.0106	<3
S4-28-1	09/04/2006	0.00026	0.00051	<0.0002	<0.0001	0.0054	0.0124	3.3
S4-28-1	19/04/2006	0.00039	0.00056	0.00551	0.00169	0.0058	0.0354	14.8
S4-28-1	23/04/2006	0.00023	0.00042	0.00106	0.00023	0.004	0.0173	4.8
S4-28-1	30/04/2006	0.00029	0.00045	0.00098	0.00028	0.0046	0.0149	7.7
S4-28-1	07/05/2006	<0.0002	0.00045	<0.0002	<0.0001	0.0024	0.0134	6.4
S4-28-1	21/05/2006	0.00037	0.00057	0.00141	0.00046	0.0045	0.0178	21.3
S4-28-1	28/05/2006	0.00064	0.00091	0.0103	0.00237	0.008	0.287	10.5
S4-28-1	07/06/2006	0.00027	0.00057	0.00196	0.00061	0.0074	0.0304	29.2
S4-28-1	20/06/2006	0.00011	0.000312	0.00119	0.000176	0.00389	0.0103	14.7
S4-28-1	09/07/2006	0.00065	0.00056	0.0005	<0.0001	0.0082	0.0162	<3
S4-28-1	15/07/2006	0.00022	0.00065	0.00032	<0.0001	0.0068	0.0197	5.8
S4-28-1	23/07/2006	0.0002	0.00069	0.00028	0.0001	0.0061	0.014	3
S4-28-1	20/08/2006	0.00022	0.00074	<0.0002	<0.0001	0.0066	0.0166	<3
S4-28-1	27/08/2006	0.00021	0.00051	0.0009	0.00028	0.0054	0.0171	11.5
S4-28-1	02/09/2006	0.00024	0.00076	0.00059	0.00019	0.0064	0.0209	<3
S4-28-1	09/09/2006	0.0002	0.00054	0.00022	<0.0001	0.0056	0.0131	5.8
S4-28-1	30/09/2006	0.00068	0.00065	0.00047	0.00012	0.0064	0.0195	4.7
S4-28-1	13/10/2006	0.00028	0.000529	<0.002	<0.00005	0.00556	0.0123	<3
S4-28-1	05/11/2006	0.00026	0.000456	<0.004	0.000341	0.00325	0.0132	12
S4-28-1	11/11/2006	<0.0002	0.00047	0.00096	<0.0001	<0.001	0.0144	11.8
S4-28-1	16/11/2006	<0.0002	0.00061	0.00188	0.00012	<0.001	0.0074	15.3
S4-28-1	25/11/2006	0.00033	0.000052	0.00073	0.000068	<0.0005	0.0028	10.7
S4-28-1	02/12/2006	0.00015	<0.00005	<0.002	0.000505	<0.0005	0.0019	14.2
S4-28-1	09/12/2006	<0.0001	0.000185	0.00073	0.000143	<0.0005	0.0063	18
S4-28-1	16/12/2006	0.00032	0.00052	0.0033	0.0006	0.0027	0.0166	24.8
S4-28-1	19/12/2006	<0.0002	0.00027	0.00203	0.00028	<0.001	0.0109	15.6
S4-28-1	26/12/2006	<0.0002	0.00018	0.00077	<0.0001	<0.001	0.0058	14.9
S4-28-1	02/01/2007	<0.0002	0.00014	0.00041	<0.0001	<0.001	0.0045	15
S4-28-1	07/01/2007	<0.0002	0.00027	0.00111	0.00035	0.0014	0.0209	20.3
S4-28-1	14/01/2007	<0.0001	0.000132	0.00295	0.000264	<0.0005	0.0089	18
S4-28-1	21/01/2007	<0.0002	0.00011	0.00233	0.00031	<0.001	0.0083	22
S4-28-1	28/01/2007	<0.0002	<0.0001	0.00181	0.0002	<0.001	0.0053	26.2
S4-28-1	04/02/2007	<0.0002	<0.0001	0.00053	<0.0001	<0.001	0.0036	15.8
S4-28-1	11/02/2007	<0.0002	0.00037	<0.0002	<0.0001	<0.001	0.0178	18.7
S4-28-1	18/02/2007	<0.0002	<0.0001	0.00113	<0.0001	<0.001	0.0039	20.9
S4-28-1	25/02/2007	0.0001	<0.00005	<0.002	0.0002	<0.0005	0.0052	27
S4-28-1	04/03/2007	0.00026	<0.0001	0.0053	0.00023	0.002	0.0054	29.7
S4-28-1	11/03/2007	<0.0002	<0.0001	0.00129	0.00021	<0.001	0.0053	23.6
S4-28-1	18/03/2007	0.00014	0.000196	0.00189	0.000381	0.00099	0.0222	19

Table 11: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-28-1, 2003 – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-28-1	25/03/2007	<0.0001	0.000445	<0.002	0.000074	<0.0005	0.0201	20.7
S4-28-1	01/04/2007	<0.0001	0.000103	<0.0008	0.000054	<0.0005	0.0154	16.5
S4-28-1	07/04/2007	<0.0002	0.00035	0.00027	<0.0001	<0.001	0.0205	12.7
S4-28-1	13/04/2007	0.00026	0.00049	0.00022	<0.0001	0.0052	0.0142	<3
S4-28-1	15/04/2007	0.00036	0.0004	<0.0002	<0.0001	0.0067	0.0142	<3
S4-28-1	22/04/2007	0.00037	0.00041	0.0002	<0.0001	0.007	0.0157	<3
S4-28-1	29/04/2007	0.0002	0.00047	<0.0002	<0.0001	0.0036	0.0142	4.5
S4-28-1	06/05/2007	0.00041	0.00111	0.00169	0.00035	0.0114	0.0462	13.1
S4-28-1	13/05/2007	0.00036	0.0002	0.00036	<0.0001	0.0013	0.0105	12.3
S4-28-1	20/05/2007	<0.0002	0.00034	0.00036	<0.0001	0.0014	0.0146	9
S4-28-1	27/05/2007	0.00018	0.000172	<0.0001	<0.00005	0.00297	0.0045	<3
S4-28-1	03/06/2007	0.00042	0.00051	<0.0002	<0.0001	0.008	0.0136	<3
S4-28-1	10/06/2007	0.00033	0.00057	0.00028	<0.0001	0.0089	0.015	<3
S4-28-1	11/06/2007	0.00109	<0.00005	0.00173	0.000305	0.00285	0.0043	9.7
S4-28-1	17/06/2007	0.00035	0.00074	<0.0002	<0.0001	0.0095	0.0182	<3
S4-28-1	24/06/2007	0.00032	0.00046	0.00031	<0.0001	0.0076	0.0135	<3
S4-28-1	01/07/2007	0.00033	0.00047	<0.0002	<0.0001	0.0073	0.0133	<3
S4-28-1	08/07/2007	0.00029	0.00051	<0.0002	<0.0001	0.008	0.013	<3
S4-28-1	15/07/2007	0.00032	0.00059	0.00077	<0.0001	0.0089	0.0153	<3
S4-28-1	16/07/2007	0.00033	0.00053	0.00021	<0.0001	0.0081	0.0148	<3
S4-28-1	22/07/2007	0.00029	0.00066	<0.0002	<0.0001	0.0069	0.0159	5.7
S4-28-1	29/07/2007	0.00031	0.00064	0.00023	<0.0001	0.0081	0.0156	<3
S4-28-1	05/08/2007	0.00029	0.00059	<0.0002	<0.0001	0.0082	0.0129	<3
S4-28-1	12/08/2007	0.00031	0.00062	<0.0002	<0.0001	0.0088	0.0153	<3
S4-28-1	19/08/2007	0.0003	0.00055	<0.0002	<0.0001	0.0082	0.014	<3
S4-28-1	26/08/2007	0.0003	0.00065	0.00048	0.0001	0.0086	0.0186	
S4-28-1	02/09/2007	0.00029	0.00048	0.00023	<0.0001	0.0078	0.0137	<3
S4-28-1	09/09/2007	0.00036	0.00047	0.00298	0.00074	0.0044	0.0244	25.5
S4-28-1	16/09/2007	0.0004	0.00062	0.00333	<0.0001	0.0082	0.0181	3.5
S4-28-1	23/09/2007	0.00026	0.00051	<0.0002	<0.0001	0.0064	0.0139	3.3
S4-28-1	30/09/2007	0.00025	0.000659	<0.002	<0.00005	0.00692	0.0149	3.6
S4-28-1	07/10/2007	0.00022	0.00056	<0.0003	<0.0001	0.0065	0.016	<3
S4-28-1	14/10/2007	<0.0002	0.00077	<0.0018	<0.0001	0.0062	0.0187	<3
S4-28-1	21/10/2007	<0.0002	0.00064	0.00021	<0.0001	0.0021	0.0178	7.7
S4-28-1	28/10/2007	0.00032	0.00061	<0.0012	<0.0001	0.0098	0.0167	<3
S4-28-1	04/11/2007	0.00034	0.00066	<0.0002	<0.0001	0.009	0.017	<3
S4-28-1	11/11/2007	0.00089	0.00068	0.00067	<0.00025	0.008	0.0184	<3
S4-28-1	18/11/2007	0.00025	0.00075	0.00065	<0.0001	0.008	0.0178	<3
S4-28-1	25/11/2007	0.00108	0.00054	<0.0003	<0.0001	0.008	0.0161	<3
S4-28-1	02/12/2007	0.00032	0.00042	0.00053	<0.0001	0.0085	0.0142	<3
S4-28-1	09/12/2007	0.00026	0.00056	<0.0002	<0.0001	0.007	0.0135	<3
S4-28-1	16/12/2007	<0.0002	0.00063	0.0003	<0.0001	0.0074	0.0178	<3
S4-28-1	23/12/2007	0.00032	0.00057	0.00044	<0.0001	0.0077	0.0152	<3

Table 11: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-28-1, 2003 – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-28-1	30/12/2007	0.0003	0.0005	<0.0002	0.00011	0.007	0.0127	3.4
S4-28-1	06/01/2008	0.00032	0.00049	0.00024	<0.0001	0.0069	0.0134	<3
S4-28-1	13/01/2008	0.00031	0.00045	0.00072	<0.0001	0.0083	0.0137	<3
S4-28-1	20/01/2008	0.00035	0.00047	<0.0002	<0.0001	0.0072	0.0138	<3
S4-28-1	27/01/2008	0.00033	0.00056	0.00073	<0.0001	0.0068	0.0143	<3
S4-28-1	03/02/2008	0.00035	0.00047	0.00052	0.00015	0.0074	0.0125	<3
S4-28-1	10/02/2008	0.00033	0.00052	0.00091	<0.0001	0.0213	0.0125	<3
S4-28-1	17/02/2008	0.00029	0.00064	<0.0002	<0.0001	0.0107	0.0138	<3
S4-28-1	24/02/2008	0.0003	0.0007	<0.0002	<0.0001	0.0107	0.0182	<3
S4-28-1	02/03/2008	0.00027	0.00061	<0.0002	<0.0001	0.0102	0.0176	3.3
S4-28-1	09/03/2008	0.00028	0.00076	0.001	0.00036	0.011	0.022	<3
S4-28-1	16/03/2008	0.00024	0.00069	<0.0004	<0.0001	0.0097	0.0217	<3
S4-28-1	23/03/2008	0.00024	0.00058	0.00024	<0.0001	0.0099	0.023	<3
S4-28-1	30/03/2008	0.00027	0.00066	0.00044	<0.0001	0.0093	0.0234	<3
S4-28-1	06/04/2008	0.00025	0.00069	0.00025	<0.0001	0.0091	0.0242	<3
S4-28-1	13/04/2008	0.0003	0.00076	0.00032	<0.0001	0.0089	0.0254	<3
S4-28-1	20/04/2008	0.00031	0.00089	0.00062	<0.0001	0.0099	0.0267	<3
S4-28-1	27/04/2008	0.00043	0.00149	0.00101	0.00015	0.0113	0.0395	4.7
S4-28-1	04/05/2008	0.00024	0.00083	0.00039	<0.0001	0.0086	0.0241	<3
S4-28-1	11/05/2008	0.00028	0.00098	0.00036	<0.0001	0.008	0.0244	<3
S4-28-1	18/05/2008	0.00024	0.00103	0.00026	<0.0001	0.0079	0.0258	<3
S4-28-1	25/05/2008	0.00027	0.00101	<0.0002	<0.0001	0.0084	0.0194	<3
S4-28-1	01/06/2008	0.00026	0.00102	0.00029	<0.0001	0.0078	0.022	<3
S4-28-1	08/06/2008	0.00097	0.00087	0.00088	0.00069	0.0394	0.0187	<3
S4-28-1	15/06/2008	0.00043	0.00083	0.00035	<0.0001	0.0087	0.0201	<3
S4-28-1	17/06/2008	0.00031	0.0006	<0.0002	<0.0001	0.0075	0.0178	<3
S4-28-1	22/06/2008	0.00038	0.00061	0.00059	<0.0001	0.0084	0.0182	<3
S4-28-1	29/06/2008	0.00037	0.00075	<0.0002	<0.0001	0.0074	0.0148	<3
S4-28-1	06/07/2008	0.00048	0.00068	0.0003	<0.0001	0.009	0.0173	<3
S4-28-1	13/07/2008	0.00055	0.00073	<0.0002	<0.0001	0.0083	0.0158	<3
S4-28-1	20/07/2008	0.0005	0.00064	0.00024	<0.0001	0.008	0.0166	<3
S4-28-1	27/07/2008	0.00052	0.00057	<0.0002	<0.0001	0.0083	0.017	<3
S4-28-1	03/08/2008	0.00047	0.00058	0.00025	<0.0001	0.0073	0.0159	<3
S4-28-1	10/08/2008	0.00066	0.0005	0.0003	<0.0001	0.0084	0.0148	<3
S4-28-1	17/08/2008	0.00062	0.00057	<0.0002	<0.0001	0.0089	0.0176	3
S4-28-1	24/08/2008	0.00046	0.0006	0.00042	<0.0001	0.0077	0.013	<3
S4-28-1	31/08/2008	0.00051	0.00054	<0.0002	<0.0001	0.0073	0.0133	<3
S4-28-1	07/09/2008	0.00057	0.00047	0.00144	<0.0001	0.0109	0.0136	<3
S4-28-1	14/09/2008	0.00058	0.00048	0.00031	<0.0001	0.0088	0.0154	<3
S4-28-1	21/09/2008	0.00056	0.0005	0.00024	<0.0001	0.0091	0.0186	<3
S4-28-1	28/09/2008	0.00047	0.0003	<0.0002	<0.0001	0.0081	0.0137	<3
S4-28-1	05/10/2008	0.0006	0.00026	<0.0002	<0.0001	0.0079	0.0123	<3
S4-28-1	12/10/2008	0.00044	0.00026	<0.0002	<0.0001	0.0085	0.0122	<3

Table 11: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-28-1, 2003 – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-28-1	19/10/2008	0.00054	0.00023	< 0.0012	< 0.0001	0.0084	0.0182	<3
S4-28-1	26/10/2008	0.00043	0.00024	<0.0002	<0.0001	0.0088	0.0137	<3
S4-28-1	02/11/2008	0.00041	0.00022	<0.004	<0.0001	0.0088	0.0153	<3
S4-28-1	09/11/2008	0.00037	0.00022	0.00031	<0.0001	0.0083	0.0162	<3
S4-28-1	16/11/2008	0.00039	0.00025	0.00022	<0.0001	0.0091	0.0146	<3
S4-28-1	23/11/2008	0.0003	0.00024	<0.0002	<0.0001	0.0081	0.014	<3
S4-28-1	30/11/2008	0.00189	0.00022	0.00046	<0.0001	0.009	0.0132	<3
S4-28-1	07/12/2008	0.00044	0.00028	<0.0002	<0.0001	0.009	0.0157	3.8
S4-28-1	14/12/2008	0.0004	0.00023	<0.0002	<0.0001	0.0085	0.0121	<3
S4-28-1	21/12/2008	0.00023	0.00021	0.00225	0.00017	0.006	0.0129	9.7
S4-28-1	28/12/2008	0.00028	0.00038	0.00022	0.00023	0.0081	0.0163	3.1
S4-28-1	04/01/2009	0.00031	0.00034	<0.0002	<0.0001	0.0072	0.0147	<3
S4-28-1	11/01/2009	0.00029	0.00032	<0.004	<0.0001	0.0077	0.0136	3.3
S4-28-1	18/01/2009	0.00028	0.00033	0.0013	0.00022	0.0087	0.0164	5.8
S4-28-1	25/01/2009	0.00032	0.00035	<0.0002	0.00067	0.0095	0.0147	5.3
S4-28-1	01/02/2009	0.00027	0.00032	0.00147	<0.0001	0.0066	0.0127	<3
S4-28-1	08/02/2009	0.00025	0.00036	0.00041	<0.0001	0.0058	0.0147	6.4
S4-28-1	15/02/2009	0.00042	0.00025	<0.0016	<0.0001	0.0078	0.0123	<3
S4-28-1	22/02/2009	0.00032	0.00028	<0.0002	<0.0001	0.0076	0.013	<3
S4-28-1	01/03/2009	0.00032	0.00043	<0.0002	<0.0001	0.0095	0.0169	<3
S4-28-1	08/03/2009	0.00034	0.0003	<0.0002	<0.0001	0.0081	0.0149	<3
S4-28-1	15/03/2009	0.00027	0.00038	0.0012	<0.0001	0.0071	0.0157	<3
S4-28-1	22/03/2009	0.00027	0.00022	0.00102	<0.0001	0.0065	0.0103	31.3
S4-28-1	29/03/2009	0.00035	0.00022	<0.0002	<0.0001	0.0079	0.0105	<3
S4-28-1	05/04/2009	0.00031	0.00023	0.00125	<0.0001	0.0083	0.0107	<3
S4-28-1	12/04/2009	0.00031	0.0004	<0.0012	<0.0001	0.0087	0.0149	<3
S4-28-1	19/04/2009	0.00034	0.00029	<0.0018	<0.0001	0.0082	0.013	<3
S4-28-1	26/04/2009	0.0003	<0.0003	0.0016	<0.0001	0.0078	0.0132	<3
S4-28-1	03/05/2009	0.00035	0.00027	<0.0018	<0.0001	0.0088	0.0114	<3
S4-28-1	10/05/2009	0.00035	0.00026	<0.003	<0.0001	0.0084	0.0127	<3
S4-28-1	17/05/2009	0.00031	0.00025	<0.003	<0.0001	0.0075	0.0126	3.3
S4-28-1	24/05/2009	0.00029	0.00029	<0.0002	<0.0001	0.0082	0.0117	<3
S4-28-1	31/05/2009	0.00035	0.00047	<0.0002	<0.0001	0.01	0.0162	<3
S4-28-1	07/06/2009	0.00038	0.00039	<0.0002	<0.0001	0.0097	0.0118	<3
S4-28-1	14/06/2009	0.00032	0.00032	<0.0002	<0.0001	0.0098	0.0124	<3
S4-28-1	21/06/2009	0.00031	0.00034	<0.0002	<0.0001	0.0088	0.0105	<3
S4-28-1	28/06/2009	0.00033	0.0004	0.00024	<0.0001	0.0085	0.0104	<3
S4-28-1	05/07/2009	0.00029	0.00041	<0.0002	<0.0001	0.0088	0.0131	<3
S4-28-1	12/07/2009	0.00495	0.00042	<0.0002	<0.0001	0.0091	0.013	<3
S4-28-1	19/07/2009	0.00029	0.00046	<0.0002	<0.0001	0.0088	0.0137	<3
S4-28-1	26/07/2009	<0.0005	0.00034	<0.0005	<0.00025	0.0085	0.0132	<3
S4-28-1	02/08/2009	0.00028	0.00026	<0.0002	<0.0001	0.0084	0.012	<3
S4-28-1	09/08/2009	0.00032	0.00032	<0.0002	<0.0001	0.0085	0.0128	4

Table 11: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-28-1, 2003 – Present

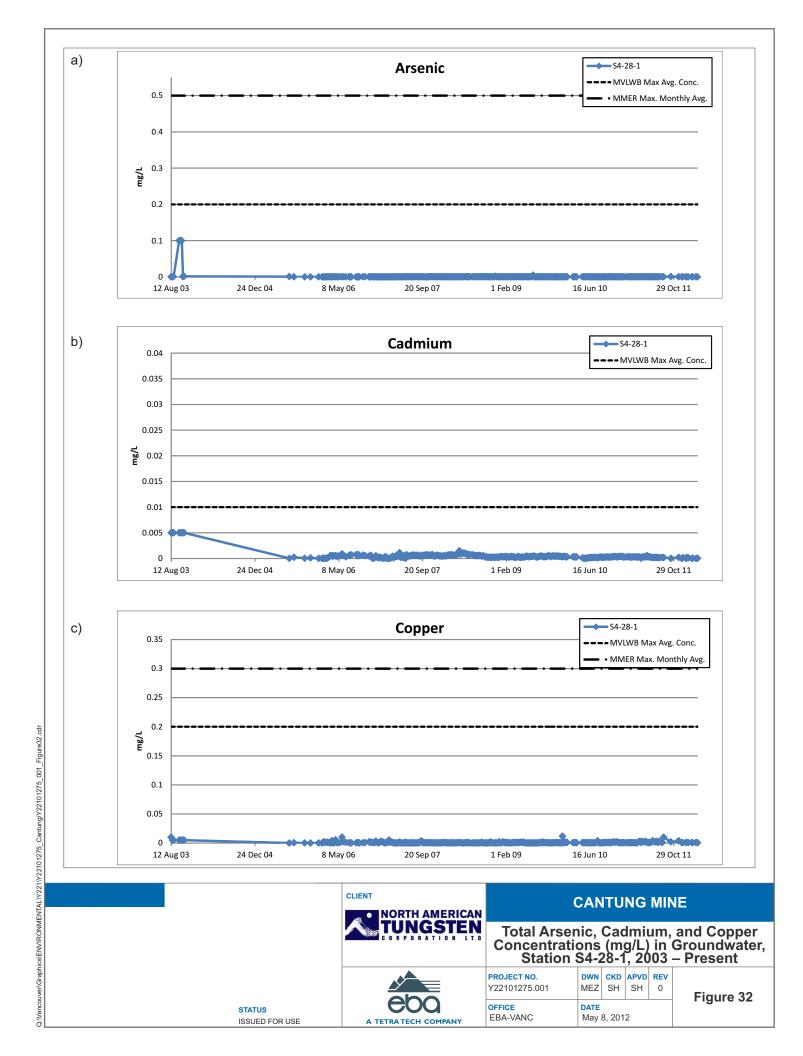
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-28-1	16/08/2009	0.00031	0.00038	<0.0014	<0.0001	0.0084	0.0122	<3
S4-28-1	23/08/2009	0.00025	0.00045	<0.0016	<0.0001	0.0087	0.0131	<3
S4-28-1	30/08/2009	0.00056	0.00048	<0.0005	<0.00025	0.0107	0.0144	<3
S4-28-1	06/09/2009	0.00027	0.0004	<0.004	<0.0001	0.008	0.0176	<3
S4-28-1	13/09/2009	0.00029	0.00032	<0.0002	<0.0001	0.0084	0.0109	<3
S4-28-1	20/09/2009	0.00031	0.00033	<0.0016	<0.0001	0.0079	0.0134	<3
S4-28-1	27/09/2009	0.00028	0.00033	<0.0015	<0.0001	0.0078	0.0107	<3
S4-28-1	04/10/2009	0.00032	0.00047	<0.0007	<0.0001	0.0078	0.0101	<3
S4-28-1	11/10/2009	<0.0005	0.0005	<0.0005	<0.00025	0.009	0.0143	<3
S4-28-1	18/10/2009	0.0003	0.00049	<0.002	<0.0001	0.0079	0.0146	<3
S4-28-1	25/10/2009	0.00029	0.00034	<0.0002	<0.0001	0.0075	0.0107	<3
S4-28-1	01/11/2009	0.00022	0.00047	<0.0002	<0.0001	0.0077	0.014	<3
S4-28-1	08/11/2009	0.00024	0.00047	<0.002	<0.0001	0.0079	0.0161	5.1
S4-28-1	15/11/2009	0.00026	0.00049	<0.0002	<0.0001	0.0083	0.0157	<3
S4-28-1	22/11/2009	0.0003	0.00037	<0.0014	<0.0001	0.0079	0.0142	<3
S4-28-1	29/11/2009	0.00037	0.0005	<0.0024	<0.0001	0.0079	0.0161	<3
S4-28-1	06/12/2009	0.00023	0.00045	<0.0012	<0.0001	0.0075	0.0122	<3
S4-28-1	13/12/2009	0.00022	0.00043	<0.0012	<0.0001	0.0066	0.0131	<3
S4-28-1	20/12/2009	<0.0002	0.00041	<0.0002	<0.0001	0.0062	0.0137	3.9
S4-28-1	27/12/2009	0.00026	0.0004	<0.0002	<0.0001	0.0061	0.0115	3
S4-28-1	03/01/2010	0.00028	0.00032	0.0117	0.00051	0.0074	0.011	<3
S4-28-1	10/01/2010	0.00022	0.00041	<0.0002	<0.0001	0.0065	0.0131	<3
S4-28-1	17/01/2010	<0.0002	0.00042	<0.004	<0.0001	0.0065	0.0134	3.3
S4-28-1	24/01/2010	0.0003	0.00027	<0.002	<0.0001	0.0064	0.0097	<3
S4-28-1	31/01/2010	0.0003	0.00034	<0.002	<0.0001	0.0068	0.0121	3.8
S4-28-1	07/03/2010	0.00032	0.00031	<0.0014	<0.0001	0.0068	0.0112	<3
S4-28-1	14/03/2010	0.00035	0.00031	<0.0012	<0.0001	0.0068	0.0107	<3
S4-28-1	21/03/2010	0.00032	0.00028	<0.002	<0.0001	0.0066	0.0095	<3
S4-28-1	28/03/2010	0.00025	0.00029	0.00032	<0.0001	0.0048	0.011	5.8
S4-28-1	02/05/2010	0.00038	0.0001	<0.0016	<0.0001	0.0056	0.0091	4
S4-28-1	09/05/2010	0.0004	<0.0001	<0.001	<0.0001	0.0042	0.0058	6.5
S4-28-1	16/05/2010	0.00035	<0.0001	<0.0015	<0.0001	0.0053	0.005	3.4
S4-28-1	23/05/2010	0.00037	<0.0001	<0.0002	<0.0001	0.0033	<0.002	<3
S4-28-1	30/05/2010	0.00029	<0.0001	<0.002	<0.0001	0.0037	0.0044	4.9
S4-28-1	06/06/2010	0.00037	0.00014	<0.002	<0.0001	0.0056	0.0065	<3
S4-28-1	13/06/2010	0.00037	0.00014	<0.0002	<0.0001	0.0059	0.0067	<3
S4-28-1	20/06/2010	<0.00027	0.00014	<0.0002	<0.0001	0.006	0.0061	<3
S4-28-1	27/06/2010	0.00021	0.00010	<0.0010	<0.0001	0.0053	0.0056	3.3
S4-28-1	04/07/2010	0.00021	0.00019	<0.0002	<0.0001	0.0057	0.0063	<3
S4-28-1	11/07/2010	0.00026	0.0002	<0.0010	<0.0001	0.0057	0.0003	<3 <3
S4-28-1	18/07/2010	ł	0.0002	<0.0002	<0.0001	0.0000	0.0071	<3 <3
S4-28-1 S4-28-1	25/07/2010	0.00026 0.00025	0.00021	<0.0008	<0.0001	0.0075	0.009	<3 <3
S4-28-1	01/08/2010	0.00025	0.000185	0.004	0.0001	0.00546	0.0055	3

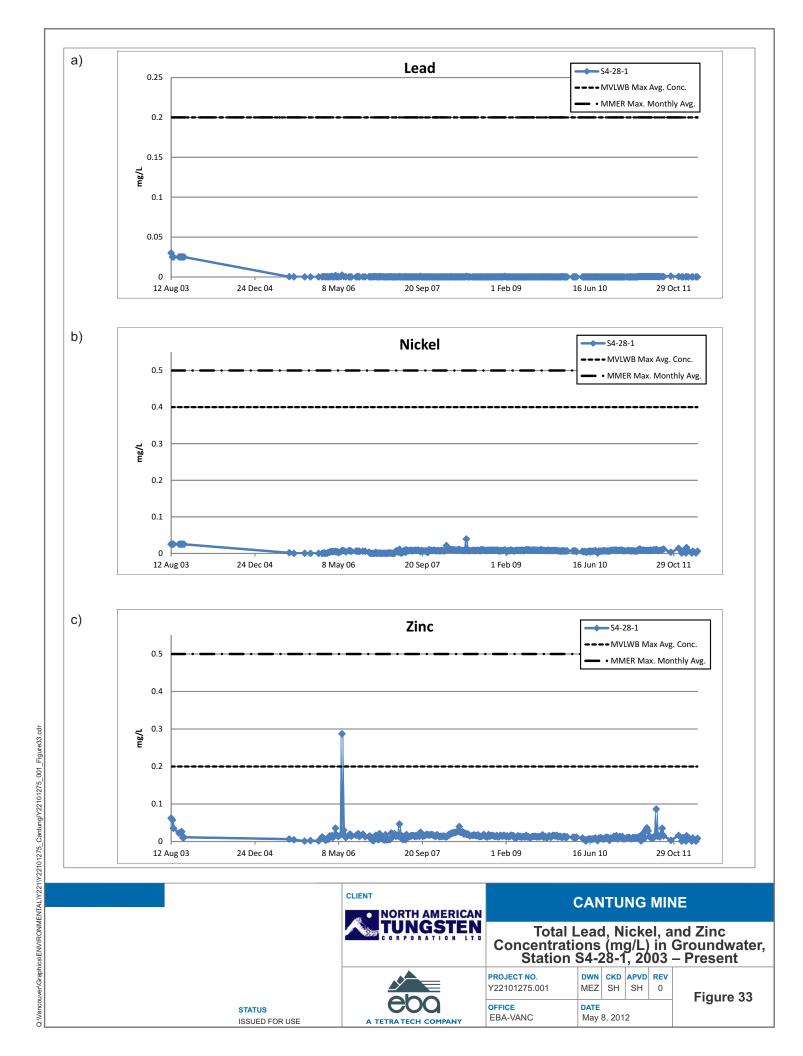
Table 11: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-28-1, 2003 – Present

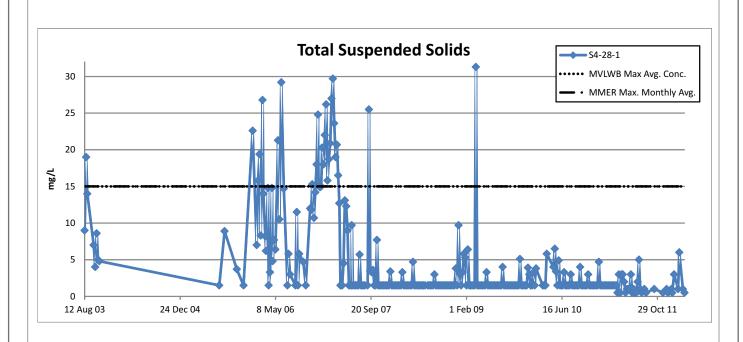
Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-28-1	08/08/2010	< 0.0002	0.00026	<0.0008	< 0.0001	0.0064	0.0087	<3
S4-28-1	15/08/2010	<0.0002	0.00026	<0.0004	<0.0001	0.0061	0.0093	<3
S4-28-1	22/08/2010	<0.0002	0.00029	<0.0008	<0.0001	0.0064	0.0095	<3
S4-28-1	29/08/2010	0.00034	0.0002	<0.0012	<0.0001	0.0063	0.0066	<3
S4-28-1	05/09/2010	0.00034	0.00023	<0.0012	<0.0001	0.0076	0.0069	<3
S4-28-1	12/09/2010	0.00028	0.00027	<0.0014	<0.0001	0.0068	0.007	<3
S4-28-1	19/09/2010	0.00021	0.00027	<0.003	<0.0001	0.0067	0.011	4
S4-28-1	26/09/2010	<0.0002	0.00029	<0.001	<0.0001	0.0067	0.0109	<3
S4-28-1	03/10/2010	0.00024	0.00028	<0.0012	<0.0001	0.0065	0.0097	<3
S4-28-1	10/10/2010	0.00085	0.00024	<0.003	<0.0001	0.0061	<0.006	<3
S4-28-1	17/10/2010	0.00029	0.00031	<0.001	<0.0001	0.0084	0.0088	<3
S4-28-1	24/10/2010	0.00029	0.00027	<0.001	<0.0001	0.0081	0.0082	<3
S4-28-1	31/10/2010	0.00029	0.00032	<0.004	<0.0001	0.0093	0.0085	3
S4-28-1	07/11/2010	<0.0002	0.00042	0.0017	<0.0001	0.0083	0.014	<3
S4-28-1	14/11/2010	0.00028	0.00034	<0.003	<0.0001	0.0088	0.0096	<3
S4-28-1	21/11/2010	0.00023	0.00033	<0.004	<0.0001	0.0088	0.0154	<3
S4-28-1	28/11/2010	0.00026	0.00028	<0.003	<0.0001	0.0075	0.007	<3
S4-28-1	05/12/2010	0.00029	0.00035	<0.001	<0.0001	0.0084	0.0087	<3
S4-28-1	12/12/2010	0.0002	0.00043	<0.001	<0.0001	0.0083	0.013	<3
S4-28-1	19/12/2010	0.0003	0.00034	<0.0012	<0.0001	0.0089	0.0112	<3
S4-28-1	26/12/2010	0.00028	0.00042	<0.001	<0.0001	0.0086	0.0134	4.7
S4-28-1	02/01/2011	0.00028	0.00026	<0.0016	<0.0001	0.0072	0.0069	<3
S4-28-1	09/01/2011	0.00027	0.00027	<0.001	<0.0001	0.0072	0.0069	<3
S4-28-1	16/01/2011							<3
S4-28-1	23/01/2011	0.00025	0.00032	<0.001	<0.0001	0.0076	0.0101	<3
S4-28-1	30/01/2011	0.00027	0.00031	<0.001	<0.0001	0.0079	0.0108	<3
S4-28-1	06/02/2011	0.00028	0.00033	<0.001	<0.0001	0.0079	0.0102	<3
S4-28-1	13/02/2011	0.00027	0.00025	<0.001	<0.0001	0.007	0.0075	<3
S4-28-1	20/02/2011	0.00028	0.00025	<0.001	<0.0001	0.0068	0.0072	<3
S4-28-1	27/02/2011	0.00028	0.00029	<0.001	<0.0001	0.0073	0.0102	<3
S4-28-1	06/03/2011	0.00028	0.00033	<0.001	<0.0001	0.007	0.0099	<3
S4-28-1	13/03/2011	0.0003	0.00031	<0.001	<0.0001	0.0063	0.0097	<3
S4-28-1	20/03/2011	0.00023	0.00031	<0.001	<0.0001	0.007	0.0098	<3
S4-28-1	27/03/2011	0.00028	0.00024	<0.001	<0.0001	0.0065	0.009	<3
S4-28-1	03/04/2011	<0.001	0.00034	0.002	<0.001	0.011	0.012	<1
S4-28-1	10/04/2011	<0.001	0.00023	0.003	<0.001	0.012	0.013	3
S4-28-1	17/04/2011	<0.001	0.000034	<0.002	<0.001	0.009	<0.003	<1
S4-28-1	24/04/2011	0.001	0.000304	0.003	<0.001	0.009	0.013	3
S4-28-1	30/04/2011	<0.001	0.000348	0.01	<0.001	0.009	0.022	3
S4-28-1	07/05/2011	<0.001	0.000277	0.002	<0.001	0.008	0.008	2
S4-28-1	15/05/2011	<0.001	0.000266	0.003	<0.001	0.008	0.03	<1
S4-28-1	22/05/2011	<0.001	0.000578	<0.002	<0.001	0.008	0.036	1
S4-28-1	29/05/2011	<0.001	0.000272	<0.002	<0.001	0.008	0.028	1

Table 11: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-28-1, 2003 – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-28-1	05/06/2011	<0.001	0.000336	<0.002	<0.001	0.008	0.013	1
S4-28-1	12/06/2011	<0.001	0.000296	<0.002	<0.001	0.009	0.012	3
S4-28-1	19/06/2011	<0.001	0.000183	0.002	<0.001	0.008	0.008	<1
S4-28-1	26/06/2011	<0.001	0.000196	0.004	<0.001	0.008	0.01	1
S4-28-1	03/07/2011	<0.001	0.000175	0.002	<0.001	0.01	0.011	<1
S4-28-1	10/07/2011	<0.001	0.000205	0.002	<0.001	0.009	0.016	<1
S4-28-1	17/07/2011	<0.001	0.000218	0.003	<0.001	0.011	0.086	2
S4-28-1	24/07/2011	<0.001	0.000199	<0.002	<0.001	0.008	0.014	5
S4-28-1	31/07/2011	<0.001	0.000156	0.003	<0.001	0.008	0.015	1
S4-28-1	07/08/2011	<0.001	0.000171	0.002	<0.001	0.008	0.012	<1
S4-28-1	21/08/2011	<0.001	0.000198	<0.002	<0.001	0.01	0.035	1
S4-28-1	30/08/2011	<0.001	0.000185	0.002	<0.001	0.012	0.015	<1
S4-28-1	12/10/2011	0.001	0.000025	0.002	0.001	0.003	0.003	1
S4-28-1	27/11/2011	<0.001	0.000214	0.004	<0.001	0.014	0.016	<1
S4-28-1	16/12/2011	0.00005	0.00001	0.001	0.00001	0.001	0.001	1
S4-28-1	23/12/2011	0.00027	0.00016	<0.001	0.00002	0.006	0.01	<1
S4-28-1	10/01/2012	0.0005	0.00001	0.001	0.00001	0.001	0.001	1
S4-28-1	14/01/2012	<0.001	0.000208	<0.002	<0.001	0.016	0.015	<1
S4-28-1	24/01/2012	<0.0005	0.00013	0.001	0.00002	0.007	0.011	3
S4-28-1	14/02/2012	0.0005	0.00001	0.001	0.00001	0.001	0.001	1
S4-28-1	20/02/2012	<0.0005	0.00006	<0.001	<0.00001	0.006	0.009	6
S4-28-1	10/03/2012	0.0005	0.00001	0.001	0.00001	0.001	0.001	1
S4-28-1	19/03/2012	<0.0005	0.00005	<0.001	<0.00001	0.006	0.008	<1







NORTH AMERICAN TUNGSTEN

CANTUNG MINE

Total Suspended Solids Concentrations (mg/L) in Groundwater, Station S4-28-1, 2003 – Present



STATUS

ISSUED FOR USE

PROJECT NO. Y22101275.001		CKD SH	APVD SH	REV 0
OFFICE EBA-VANC	DATE May	8, 201	2	

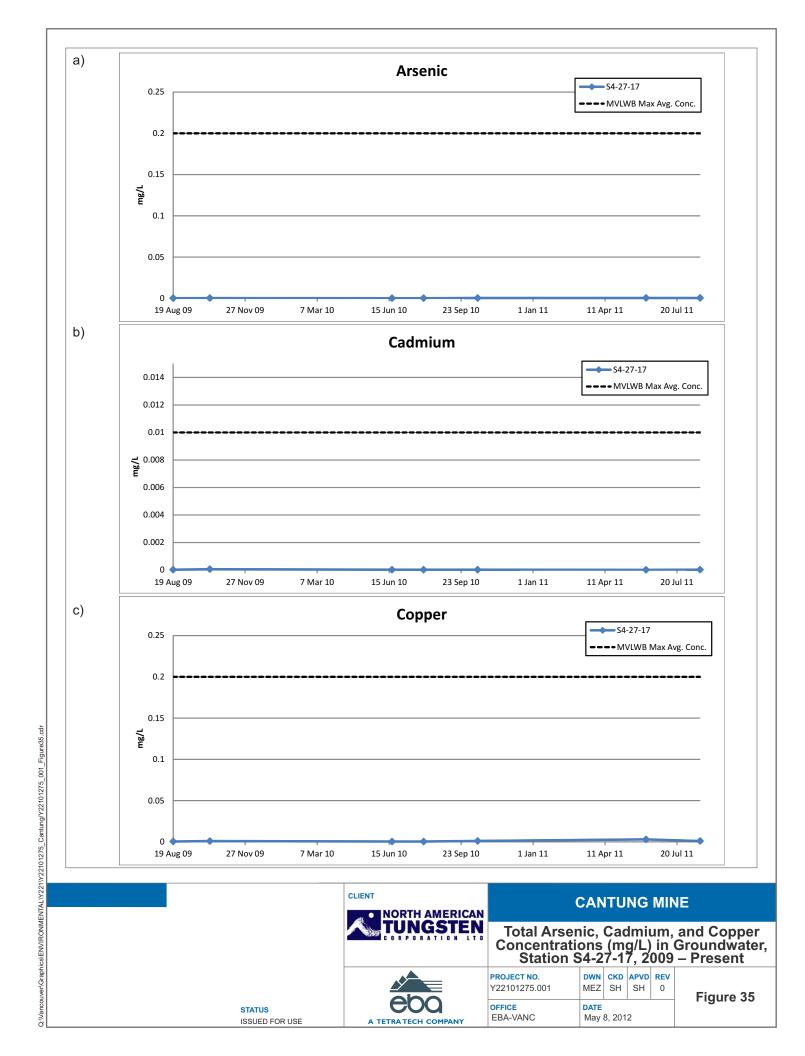
5.2.5 Groundwater Station S4-27-17

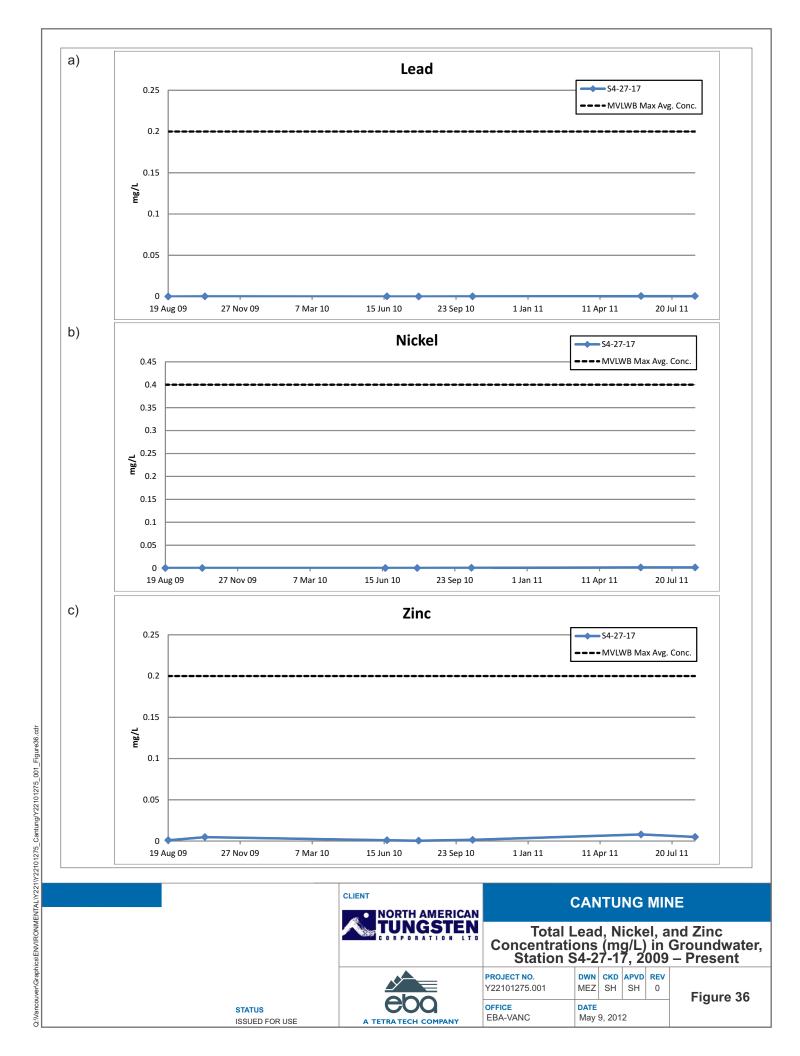
Groundwater monitoring Station S4-27-17 was established in August 2009 to serve as a background groundwater quality station for the entire Cantung Mine Project area. This station was located up-gradient and to the northwest of the freshwater pump house.

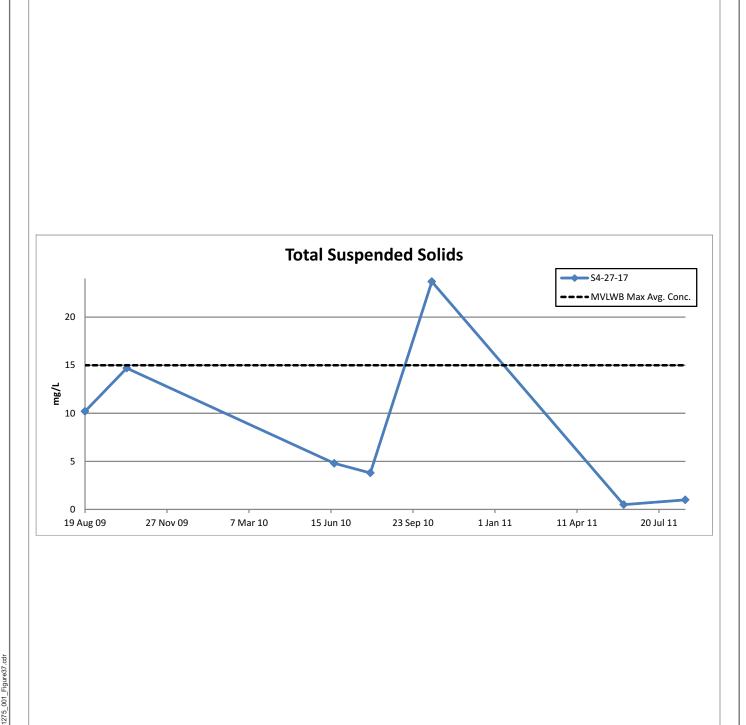
Table 12 and Figures 35 to 37 present the available groundwater quality data for Station S4-27-17, for the relatively short period of record. As noted in Table 12 and the associated figures, since August 2009, when this station was established as the background station, the concentrations of total metals and TSS in S4-27-17 groundwater from this well have consistently remained below the current MVLWB MAC groundwater quality parameters, with the exception of one slightly elevated TSS value of 23.7 mg/l recorded in October 2010.

Table 12: Concentrations of Selected Water Licence Parameters Groundwater at Station S4-27-17, 2009 – Present

Station	Date Sampled	Arsenic (mg/l)	Cadmium (mg/l)	Copper (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)	TSS (mg/l)
S4-27-17								
S4-27-17	19/08/2009	0.00022	<0.00005	0.00047	<0.00005	<0.0005	0.001	10.2
S4-27-17	09/10/2009	0.00034	0.000061	0.00095	0.000161	<0.0005	0.0048	14.7
S4-27-17	19/06/2010	0.00022	<0.00005	0.00043	0.000062	<0.0005	0.001	4.8
S4-27-17	02/08/2010	0.00019	<0.00005	0.00042	<0.00005	<0.0005	<0.001	3.8
S4-27-17	16/10/2010	0.00043	<0.00005	0.00111	0.00015	0.00063	< 0.003	23.7
S4-27-17	07/06/2011	<0.001	<0.000025	0.003	<0.001	<0.003	0.008	<1
S4-27-17	21/08/2011	<0.001	0.000028	<0.002	<0.001	<0.003	0.005	1







NORTH AMERICAN TUNGSTEN

CANTUNG MINE

Total Suspended Solids Concentrations (mg/L) in Groundwater, Station S4-27-17, 2009 – Present



 PROJECT NO.
 DWN MEZ
 CKD SH
 APVD SH
 REV 0

 OFFICE
 DATE

 EBA-VANC
 May 8, 2012

Figure 37

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STATUS ISSUED FOR USE

5.3 Summary of Groundwater Quality

For purposes of this report, the assessment of groundwater quality parameters focussed on the key parameters traditionally specified in the water licence and the Metal Mining Effluent Regulations. On this basis, the parameters examined and discussed in more detail have included arsenic, cadmium, copper, lead, nickel, zinc and total suspended solids.

To facilitate the presentation of historic and more recent data extending for the period of record from the early 1980s to present, all of the data were treated as being valid, with the general understanding that minimum detection limits (MDL) have decreased as analysis methods have evolved. For data manipulation purposes, where sample values were clearly reported as less than the detection limit, half the value of the detection limit was used for computations and graphics production. In circumstances where it was not possible to determine what the detection limit was (particularly for some of the more historic data), the reported values were used.

Due to the large number of groundwater sampling sites monitored at the Cantung Mine site, NATCL and EBA determined that in the interests of time and efficiency, the assessment historical and current groundwater quality would be focussed on a more limited number of key SNP groundwater sampling stations. In particular the stations that were selected for further analysis were:

- S4-27-1/16 East (down-gradient) of TP2 on the Flat River floodplain, also referred to as MW1-1;
- S4-27-5/13 South (down-gradient) of TP3 west of airstrip north end;
- S4-27-7 East (down-gradient) of TP4 on the Flat River floodplain, also referred to as BH 43;
- S4-28-1 East (down-gradient) of TP3 near airstrip road/groundwater, also referred to as MW-6 and pumping well PW1(designated as MMER FDP); and
- S4-27-17 Northwest of freshwater pump house (background station).

5.3.1 Metals

The assessment of the available historical and more recent groundwater quality data set has determined that in general, the concentrations of total metals in the groundwater stations examined at all piezometer depths, with very few exceptions were consistently at or below the current MVLWB MAC groundwater quality parameters for the period of record from 1982 to the present.

Isolated occurrences of elevated total metal levels in groundwater were typically recorded in the mid-1980s, shortly before and after the then Canada Tungsten Mine closed down for an extended shutdown period. However, as previously indicated, some of these elevated values were due to the high detection limits employed at the time by the laboratory.

During the 1990s, when the mine was closed, the concentrations of total metals in the groundwater stations assessed were consistently at or below the current MVLWB MAC groundwater quality parameters with few exceptions.

During the period 2000 to present, the concentrations of total metals in the groundwater at groundwater monitoring stations assessed were consistently at or below the current MVLWB MAC groundwater quality

parameters and the MMER requirements, with a few minor exceptions, particularly for total copper and zinc.

5.3.2 Total Suspended Solids

Total suspended solids (TSS) values in groundwater, however, have exceeded the current MVLWB MAC criterion (15 mg/l) at a number of groundwater SNP sites for varying periods of time during the entire period of record.

The single highest value recorded for TSS (10,000 mg/l) reported in the groundwater over the period of record assessed by DIAND (1985-1999) was registered at Station 4-27-7 P12 (located below the toe of TP4 at 0-1.3 m) on November 24, 1986, several months after the mine had shut down its operations (DIAND 2001). This elevated TSS value corresponds with the single highest reading of total zinc reported for the same piezometer on the same day.

Other particularly elevated groundwater TSS results reported during the extended period of record reviewed by DIAND included:

- 1,250 mg/l TSS at Station 4-27-9 (located below the toe of TP2 at 0-8.1 m) on October 11, 1999;
- 1,490 mg/l TSS at Station 4-27-4 P7 (located near the Flat River below TP4/TP3 at 2 m) on June 30, 1999;
- 620 mg/l TSS at Station 4-27-1 P10 (located directly adjacent to 4-27-9 at 9 m)on August 12, 1985;
 and
- 427 mg/l TSS at Station 4-27-5 P6 (located between TP3 and the airstrip) on June 30, 1986.

However, no clear trends for TSS in the groundwater were noted by DIAND (2001). This conclusion is quite consistent with the available mine data presented in this report for this period of time.

Notably elevated TSS values in the 1990s at S4-27-1 were primarily limited to Piezometer 10, which consistently reported higher TSS during the period May 1996 to October 1997 in the range of 123 to 184 mg/l, when the mine was in an extended period of closure.

During the period 2003 to 2008, TSS values in the groundwater at S4-27-1 Piezometer 10 remained elevated above the current MAC value of 15 mg/l, ranging from 44.3 to 235 mg/l. Since being replaced by S4-27-16 in August 2009, TSS values have continued to be elevated above the MAC value for TSS, ranging from 32-96.5 mg/l. However it should be noted that these elevated TSS values were within the range of TSS values recorded at S4-27-1 during the period of record for this station, including the 1990s, when the mine was in an extended closure period.

Notably elevated TSS values at S4-27-5 in the 1990s were primarily limited to Piezometer 13, which reported higher TSS in May, July and October 1996, with recorded TSS values of 51, 53 and 310 mg/l, respectively, and TSS values of 45 and 80 mg/l in October 1997 at Piezometers 1 and 8. Since 2000, with the exception of one TSS value of 691 mg/l recorded at Piezometer 3 on September 9, 2002, all TSS values at this station have remained well below the current MAC criterion.

TSS values at stations S4-27-7, S4-28-1 and S4-27-17 have generally remained below the MVLWB MAC criterion with isolated, occasional minor exceedences.

6.0 CLOSURE

We trust that this Historical Data and Interpretation Report of Water Quality at the Cantung Mine, which was prepared consistent with Item F12 in MVLWB Water Licence MW2002L2-0019 will meet your present requirements. If you have any questions or comments, please contact the undersigned.

Sincerely,

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7.0 REFERENCES

- Canadian Council Of Ministers of the Environment's (CCME) Canadian Water Quality Guidelines (CWQG) for the Protection of Aquatic Life
- Department of Indian Affairs and Northern Development (DIAND). August 2001. Cantung Mine: Compliance Report. Prepared by the J. Smith of the Water Resources Division.
- Environmental Protection Service. November 1973. A Preliminary Water Quality Investigation of the Flat River at Canada Tungsten, Northwest Territories. Prepared by G. Sergy of the Water Pollution Control Section.
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- Sigma Resource Consultants Ltd. September 1976. Aquatic Ecology and Water Quality in the Flat River Near Cantung's Mining and Milling Operations at Tungsten, N.W.T. Interim Report. Prepared for Canada Tungsten Mining Corporation.
- Singh, Anita, and Singh, Ashok K., February 2009. ProUCL Version 4.00.04 Technical Guide (Draft.)

APPENDIX A

EBA'S GEO-ENVIRONMENTAL REPORT - GENERAL CONDITIONS



GENERAL CONDITIONS

GEO-ENVIRONMENTAL REPORT

This report incorporates and is subject to these "General Conditions".

1.0 USE OF REPORT AND OWNERSHIP

This report pertains to a specific site, a specific development, and a specific scope of work. It is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site or proposed development would necessitate a supplementary investigation and assessment.

This report and the assessments and recommendations contained in it are intended for the sole use of EBA's client. EBA does not accept any responsibility for the accuracy of any of the data, the analysis or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA's Client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

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2.0 ALTERNATE REPORT FORMAT

Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA's instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. The Client warrants that EBA's instruments of professional service will be used only and exactly as submitted by EBA.

Electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

3.0 NOTIFICATION OF AUTHORITIES

In certain instances, the discovery of hazardous substances or conditions and materials may require that regulatory agencies and other persons be informed and the client agrees that notification to such bodies or persons as required may be done by EBA in its reasonably exercised discretion.

4.0 INFORMATION PROVIDED TO EBA BY OTHERS

During the performance of the work and the preparation of the report, EBA may rely on information provided by persons other than the Client. While EBA endeavours to verify the accuracy of such information when instructed to do so by the Client, EBA accepts no responsibility for the accuracy or the reliability of such information which may affect the report.

APPENDIX B

CANTUNG MINE COMPLIANCE REPORT (DIAND 2001)



Cantung Mine

Compliance Report

August 2001

Department of Indian Affairs and Northern Development Water Resources Division Water Science and Technology

Jared Smith Co-op Student University of Manitoba

Cantung Mine Compliance Report

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Cantung Mine Compliance Report

1.0 Introduction

The Cantung Mine is located in the Northwest Territories along the Yukon-NWT border. It is located at a Latitude of 51° 57' N, and a Longitude of 128° 16' W. The tungsten mine commenced its operations in 1962 and was shutdown on May 18th, 1986 due to a labor dispute. The mine was closed indefinitely in August 1986 due to depressed market conditions, and remains in care and maintenance. North American Tungsten Corporation Inc., the current owner of the Cantung Mine, plans to reopen the mine by the end of 2001. (http://www.westpac.bc.ca/natung/index.html)

Cantung has kept its Class 1 water license valid since its closing in 1986 to ensure a quick restart of operations. The current license was issued in September, 1995 and it expires September 29, 2002.

According to the Surveillance Network Program (SNP), Cantung is required to monitor the water quality at several surveillance stations including groundwater surveillance wells. Data obtained at the SNP stations must meet the water quality requirements as set out in the license where applicable. Water input and output volumes must be recorded at other surveillance stations.

This report will evaluate Cantung's compliance to its water license when it was in production and while it was in a post-production state up to the present.

2.0 Background

2.1 SNP Sampling Stations - Locations

The Cantung mine site contains several sampling locations that are regulated and two that are monitored. The regulated station's water quality parameters must meet the maximum average concentrations (MAC) as set in the water license. If the concentration of a parameter is outside the MAC Cantung is in non-compliance. The parameters at monitored stations are not required to meet the license limit, but they are required to be included in reports to the water board.

The following stations are regulated at Cantung:

0004-9 Discharge of oil/water separator at Meter 628 to Sardine Creek -when mine was in operation only

0004-12 Discharge from conveyor gallery

0004-13 Discharge from "E" Zone

Piezometers located in groundwater monitoring wells 0004-27-1 to 0004-27-9 -see water license in Appendix A for more detail

0004-30 Mill tailings at confluence of two mill waste pipelines at the drop box -when mine was in operation only

When mill is in operation water inputs at Station 0004-1 from the Flat River must be recorded.

The following stations are monitored at Cantung:

0004-5 Flat River at bridge downstream of airstrip

0004-29 Flat River, 3km upstream of pump house (NWT Water Board, 1995)

2.2 SNP Sampling Stations -Sampling Requirements; Parameters and Frequency

Site 0004-9 Discharge of oil/water separator at Meter 628 to Sardine Creek

Not currently part of SNP, however data shows that when the mine was in production the following parameters were analyzed for on a weekly basis.

pH Temperature
Total Cyanide Total Copper
Total Zinc Oil and Grease
Conductivity

<u>Site 00004-12</u> & <u>Site 0004-13</u> -Discharge from conveyor gallery, Discharge from "E" Zone, analyze for:

pH Temperature
Conductivity Total Copper
Total Zinc Oil and Grease

Total Suspended Solids

Required to be sampled once monthly between April and October and one time during the winter period.

Piezometers located in groundwater monitoring wells <u>0004-27-1</u> to <u>0004-27-9</u>, analyze for:

pH Temperature

Conductivity Total Copper

Total Zinc Total Suspended Solids

Required to be sampled late May, July, and October for stations 0004-27-1 to 0004-27-9. Station number 004-27-6 also required to be sampled in August. One or more peizometers are required to be sampled at each station (see Appendix A, Cantung's water license for details).

0004-30 Mill tailings at confluence of two mill waste pipelines at the drop box

Not currently part of SNP, however data shows that when the mine was in production the following parameters were analyzed for on a weekly basis.

PH Temperature
Total Cyanide Total Copper
Total Zinc Total Nickel

<u>0004-5</u> & <u>0004-29</u> -Flat River at bridge downstream of airstrip, Flat River, 3km upstream of pump house, analyze for:

pH Temperature Conductivity Total Copper

Total Zinc

Required to be sampled once monthly between April and October and one time during the winter period. (NWT Water Board, 1995)

2.3 Effluent Quality Requirements

The following water quality requirements must be met at stations 4-9, 4-12, and 4-13:

Parameter	Maximum Average Concentration	Maximum Concentration Of Any Grab Sample
Total Arsenic	0.50 mg/L	1.00 mg/L
Total Copper	0.10 mg/L	0.20 mg/L
Total Lead	0.10 mg/L	0.20 mg/L
Total Nickel	0.20 mg/L	0.40 mg/L
Total Zinc	0.10 mg/L	0.20 mg/L
Oil and Grease	5.0 mg/L	10.0 mg/L
Total Suspended Solids	25.0 mg/L	50.0 mg/L
Un-ionized Ammonia	0.20 mg/L	0.40 mg/L
pН	6.0 – 9.5	

(NWT Water Board, 1995)

The following water quality requirements apply to the ground water monitoring wells 4-27-1 to 4-27-9:

Parameter	Maximum Concentration Of Any Grab Sample
Total Arsenic	1.00 mg/L
Total Cadmium	0.01 mg/L
Total Copper	0.20 mg/L
Total Lead	0.20 mg/L
Total Nickel	0.40 mg/L
Total Zinc	0.20 mg/L
Total Suspended Solids	50.0 mg/L
Un-ionized Ammonia	0.40 mg/L

(NWT Water Board, 1995)

The following effluent quality requirements must be met at Station Number 4-30:

Parameter	Maximum Average Concentration	Maximum Concentration Of Any Grab Sample
Dissolved Arsenic	0.50 mg/L	1.00 mg/L
Dissolved Cadmium	0.005 mg/L	0.10 mg/L
Dissolved Copper	0.10 mg/L	0.20 mg/L
Dissolved Lead	0.10 mg/L	0.20 mg/L
Dissolved Nickel	0.20 mg/L	0.40 mg/L
Dissolved Zinc	0.10 mg/L	0.20 mg/L
Un-ionized Ammonia	0.20 mg/L	0.40 mg/L

(NWT Water Board, 1995)

2.4 SNP Flow Measurement Requirements

The monthly quantity of water withdrawn from the Flat River at Station Number 4-1 shall be recorded in cubic meters.

3.0 SNP Data Results

Some SNP data was available for Cantung since the late seventies. Complete yearly data was available from the early eighties. Data was for the most part complete although some samples were missing mostly because of weather difficulties and the samples were frozen. Since there was approximately twenty years of complete data, it could not all be analyzed. Therefore only several years of data were selected and it was analyzed. The years selected were 1985 (year of full production), 1986 (half a year of production, half shutdown), 1987 (one

year after shutdown), 1991 (five years after shutdown), 1996 (ten years after shutdown), and 1999 (the most recent data). The selected data was tabled and is included in Appendices G-O. To further reduce the amount of data for analysis the data was graphed by sampling station, but only if at least one value was above the license limit for a particular parameter at that station. See graphs in Appendices B-F.

3.1 Station 0004-9

Sampling at this station was only done when the mine was in operation. The Surveillance Network program sets a MAC for the following parameters that were commonly measured at this site pH, total zinc, total copper, and oil and grease. Total cyanide, conductivity, and temperature were also commonly analyzed at this site however these parameters are not regulated.

3.1.1 pH

The pH of the discharged water is required to fall between 6 and 9.5 according to the water license. Five times in the data the pH of the discharge has been recorded at over 9.5, the highest value was 10.4 reached on Sept. 11/1986. The lowest pH value of 6.2 was recorded on Aug. 15/1986.

3.1.2 Total Zinc

The limit of 0.20 mg/L for zinc was exceeded three times, Sept. 9/1985, May 23/1986, and August 7/1986. The values were 0.72, 0.94, and 0.34 respectively.

3.1.3 Total Copper

The limit of 0.20 mg/L for copper was exceeded five times over the selected time periods. The limit was exceeded on Mar. 22/1985, Sept. 6/1985, Nov. 22/1985, Feb. 7/1986, and Apr. 10/1986. The values were 0.56, 0.82, 0.40, 0.68, and 4.60 mg/L respectively.

3.1.4 Oil and Grease

The oil and grease limit of 10 mg/L was exceeded several times in the data. The highest value was 76 mg/L on November 26/1985.

3.2 Station 0004-12 & 0004-13

Samples at 4-12 and 4-13 have only been taken since the mine has ceased operation. The Surveillance Network program sets a MAC for the following parameters that are regulated at these sites pH, total zinc, total copper, oil and grease, and total suspended solids. Conductivity, and temperature were also commonly analyzed at these sites however these parameters are not regulated.

3.2.1 pH

The pH of the discharged water is required to fall between 6 and 9.5 according to the water license. In the data we used at station 4-12 the pH exceeded the upper limit once and reached a value of 9.6 on Oct. 3/1986; however it never lowered below the limit during this time period. All the values at station 4-13 were within the license limit.

3.2.2 Total Zinc

The MAC for zinc is 0.20 mg/L for stations 4-12 and 4-13. All values at stations 4-12 and 4-13 are under the license limit.

3.2.3 Total Copper

The total copper license limit is also 0.20 mg/L. In the data no values exceeded the license limit at stations 4-12 or 4-13.

3.2.4 Oil and Grease

The maximum allowable concentration of oil and grease in any grab sample is 10 mg/L. Only once did a water sample from 4-12 exceed the license limit, this occurred where a sample measured 181 mg/L on May 30/1996. No oil and grease values at 4-13 exceeded the license limit.

3.2.5 Total Suspended Solids

The license limit for TSS at stations 4-12 to 4-13 is 50 mg/L. None of the values at stations 4-12 or 4-13 exceeded the license limit.

3.3 Piezometers in Groundwater Wells 0004-27-1 to 0004-27-9

In each of the groundwater wells 4-27-1 to 4-27-8 three piezometers are to be sampled on each sampling date. At 4-27-9 one piezometer is to be sampled. Due to problems with the piezometers such as their tubes being frozen or a blockage, numerous piezometers have been sampled at one time or another throughout the last several years. To be exact the data in this report lists 66 different piezometers that were sampled at least once. To simplify the results, the piezometers will be discussed on a very general basis throughout this report, see Appendices G-M for information on individual piezometers. The Surveillance Network program sets a MAC for the following parameters that are regulated at these sites total zinc, total copper, and total suspended solids. Conductivity, temperature, and pH were also to be recorded at these sites, however these parameters are not regulated.

3.3.1 Total Zinc

The MAC for total zinc in the piezometers is 0.2 mg/L. In total 14 piezometers had at least one sample over the license limit throughout the sampling period. Wells 1, 4, and 5 all had three or more piezometers with excursions over the limit.

3.3.2 Total Copper

The limit as set out in the water license for total copper is 0.20 mg/L. Only two piezometers had levels of copper that exceeded the license limit 4-27-7 P12, and 4-27-9 BH53.

3.3.3 Total Suspended Solids

Total suspended solids in the water samples taken from the piezometers are required to be under the license limit of 50 mg/L. In total 42 out of the 66 piezometers sampled in the data have at least one excursion over this license limit. In particular Stations 4-27-4 and 4-27-5 both have nine piezometers with at least one sample over the license limit.

3.4 Station 0004-30

Sampling at this station was only done when the mine was in operation. The Surveillance Network program sets a MAC for the following parameters that were commonly measured at this site dissolved zinc, dissolved copper, and dissolved nickel. Total cyanide, temperature, and pH were also commonly analyzed at this site however these parameters are not regulated.

3.4.1 Dissolved Zinc

The MAC for dissolved zinc is 0.20 mg/L. None of the samples in the data exceeded this limit.

3.4.2 Dissolved Copper

The limit set out in the water license for dissolved copper is 0.20 mg/L. No values at 4-30 exceeded this limit.

3.4.3 Dissolved Nickel

The license limit for dissolved nickel is 0.40 mg/L. The data showed no excursions above this limit in the sampling period.

3.5 Flow Measurements

When in operation Cantung withdrew water from the Flat River for use in the mill. Water withdrawn from the Flat River is required to be recorded at station number 4-1. According to the water license Cantung cannot consume more than 45,000 cubic meters of freshwater a week. Monthly and yearly totals of the Cantung's water consumption are included in Appendix O. At no time did Cantung exceed its water consumption limit.

4.0 Discussion

4.1 Station 0004-9

The following parameters were commonly measured at this site while the mine was in operation: pH, total zinc, total copper, and oil and grease. Total cyanide, conductivity, and temperature were also commonly analyzed at this site, however these parameters are not regulated. Data for all parameters was submitted regularly while the mine was in operation.

No pH values fell below 6, however a few values rose above 9.5, with the highest value of 10.4 recorded on Sept. 11/1986. The Flat River appears to be naturally alkaline and this could be the cause of elevated pH values at this site.

Three total zinc values were above the license limit and five total copper values exceeded the license limit. These excursions appear to be random and have little relation to oil and grease values.

Oil and Grease values from this station were exceeded 11 times in 1985 and 1986. This shows some problems with the efficiency of the oil/water separator.

4.2 Station 0004-12 & 0004-13

These two sampling stations have been regulated since shortly after the mine ceased operations. The following parameters are regulated at these sites: pH, total zinc, total copper, oil and grease, and total suspended solids. Conductivity, and temperature were also commonly analyzed at these sites, however these parameters are not regulated. Most data was provided to us from these sites with a few exceptions. However most of the exceptions occurred at site 4-13 when the flow was frozen in the winter.

All pH values with the exception of one remained within the range specified in the water license. Most samples appear to have a pH of approximately 8.

There are no compliance issues present at 4-12 and 4-13 for total zinc, total copper, or oil and grease. Zinc and copper had no values over the license limit and oil and grease had only one value over the limit in our data.

4.3 Piezometers in Groundwater Wells 0004-27-1 to 0004-27-9

Due to freezing and blockage many different piezometers have been tested in the groundwater wells over the years. Which makes identifying trends in individual piezometers difficult. The following parameters are regulated at these groundwater wells: total zinc, total copper, and total suspended solids (TSS). Conductivity, temperature, and pH were also to be recorded at these sites however these parameters are not regulated. Although the data provided to us was spotty because of the vast number of piezometers sampled in the wells, the information was provided as per the water license.

There is some concern however with the ground water monitoring wells. As mentioned earlier in this data set 42 out of 66 piezometers in the ground water monitoring wells have had at least one value exceed the license limit for TSS. Also 14 piezometers had excursions over the limit for total zinc, and three piezometers exceeded the license limit for total copper. This could indicate seepage of mine tailings into the groundwater and propose a compliance issue.

4.4 Station 0004-30

This station monitored the mine tailings as they were deposited into the drop box while the mine was in operation. The following parameters were measured at this site: dissolved zinc, dissolved copper, and dissolved nickel. Total cyanide, temperature, and pH were also commonly analyzed at this site however these parameters are not regulated. All data from this station was provided very regularly during the period of analysis for this study.

All values for dissolved zinc, dissolved copper, and dissolved nickel fell below the license limit. No compliance issues are present. Although not regulated, the average pH values were between 9 and 10.

4.5 Flow Measurements

Cantung was well within its limit for the use of fresh water during its operation. No compliance issues are present.

5.0 Summary

Cantung has satisfactorily complied with most of the requirements of its Surveillance Network Program as outlined in its water license. It has done a good job in providing the data from the sampling stations. However there have been some compliance problems at sampling stations regarding water quality.

Following is some recommendations that could help in ensuring Cantung fulfills its obligations for the Surveillance Network Program in the future:

- 1) The discharge from the oil/water separator has several excursions over the license limit for multiple parameters. Additional monitoring and/or mitigation should be done at this site if the mine resumes operation to ensure no further infractions of the license limits shall occur.
- 2) Additional research should be conducted on the groundwater wells and the water samples being taken from them to determine: a) if the wells are in good physical condition, b) if the elevated TSS and total zinc levels are be caused by seepage from the tailings pond or if the elevated levels are caused by another problem.
- 3) If the condition of the groundwater wells, or seepage from the tailings ponds is determined to be the cause of the elevated levels of the parameters, immediate action should be taken to rectify the situation.

6.0 References

NWT Water Board, 1995. Cantung Water License.

Westpac Management Corporation 2001. North American Tungsten. [Online]. Available: http://www.westpac.bc.ca/natung/index.html Accessed: August 20, 2001.

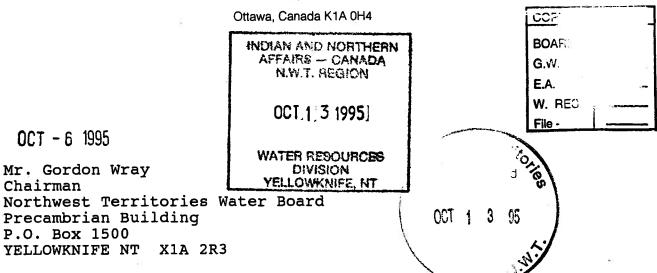
Appendix A

Cantung Water License

Minister of Indian Affairs and Northern Development



Ministre des Affaires indiennes et du Nord canadien



Dear Mr. Wray:

P.O. Box 1500 YELLOWKNIFE NT

OCT - 6 1995

Chairman

Mr. Gordon Wray

Precambrian Building

I am pleased to forward the enclosed Licence N3L2-0004 for Canada Tungsten Inc.'s Cantung Mine.

I have approved this licence as recommended by the Board.

A screening of this project, pursuant to the Environmental Assessment and Review Process Guidelines Order, has now been completed, and I am satisfied that any potentially adverse environmental and related socio-economic effects that may be caused by this project are insignificant or mitigable with known technology.

Thank you for your co-operation.

Yours truly,

Ronald A. Irwin, P.C., M.P.

Encl.

WATER REGISTER HOT

WATER REGISTER NO: N3L2-0004

October 13, 1995

Mr. David Libby, P. Eng. Vice-President, Mining Operations Canada Tungsten Mining Corporation #1 Adelaide Street East Suite 2501 TORONTO. ON M5C 2V9 INDIAN AND NORTHERN AFFAIRS — CANADA N.W.T. REGION

OCT 1.3 1995

WATER RESOURCES
DIVISION
YELLOWKNIFE, NT

Dear Mr. Libby:

RE: ISSUANCE OF AN "A" TYPE LICENCE - WATER REGISTER NO: N3L2-0004

Attached is a duplicate of Licence No. N3L2-0004 granted to Canada Tungsten Mining Corporation by the Northwest Territories Water Board, and approved by the Minister of Indian Affairs and Northern Development in accordance with the Northwest Territories Waters Act. The other original of this Licence has been filed with the Department of Indian Affairs and Northern Development in Yellowknife, Northwest Territories.

Also attached are general procedures for the administration of licences in the Northwest Territories. I request that you review these and address any questions to the Board's office.

In conclusion, please be advised that this letter with attached procedures, all inspection reports, and correspondence related thereto are part of the public Water Register, and are intended to keep all interested parties informed of the manner in which the Licence requirements are being met. All Water Register material will be considered when the Licence comes up for renewal or amendment.

The full cooperation of Canada Tungsten Mining Corporation is anticipated.

Sincerely,

or: Gordon Wray
Chairman

N.W.T. Water Board

Attachments (2) P.O. Box 1500, Yellowknife, N.W.T., X1A 2R3, 9th Floor, Precambrian Building Phone: (403) 920-8191 Fax: (403) 873-9572

GENERAL PROCEDURES FOR THE ADMINISTRATION OF LICENCES ISSUED UNDER THE NORTHWEST TERRITORIES WATERS ACT IN THE NORTHWEST TERRITORIES

- 1. At the time of issuance, a copy of the Licence is placed on the Water Register in the Office of the Northwest Territories Water Board in Yellowknife, and is then available to the public.
- 2. To enforce the terms and conditions of the Licence, the Minister of Indian Affairs and Northern Development has appointed Inspectors in accordance with Section 35(1) of the Northwest Territories Waters Act. The Inspectors coordinate their activities with officials of the Water Resources Division of the Department of Indian Affairs and Northern Development. The Inspector responsible for Licence No. N3L2-0004 is located in the Fort Simpson District Office.
- 3. To keep the Water Board and members of the public informed of the Licensee's conformity to Licence conditions, the Inspectors prepare reports which detail observations on how each item in the Licence has been met. These reports are forwarded to the Licensee with a covering letter indicating what action, if any, should be taken. The inspection reports and covering letters are placed on the public Water Register, as are any responses received from the Licensee pertaining to the inspection reports. It is therefore of prime importance that you react in all areas of concern regarding all inspection reports so that these concerns may be clarified.
- 4. If the renewal of Licence No. N3L2-0004 is contemplated it is the responsibility of the Licensee to apply to the Water Board for renewal of the Licence. The past performance of the Licensee, new documentation and information, and points raised during a public hearing, if required, will be used to determine the terms and conditions of any Licence renewal. Please note that if the Licence expires and another has not been issued, then water and waste disposal must cease, or Canada Tungsten Mining Corporation would be in contravention of the Northwest Territories Waters Act. It is suggested that an application for renewal of Licence No. N3L2-0004 be made at least one year in advance of the Licence expiry date.
- 5. If, for some reason, Licence No. N3L2-0004 requires amendment, then a public hearing may be required. You are reminded that applications for amendments should be submitted as soon as possible to provide the Water Board with ample time to go through the amendment process. The process may take up to six (6) months or more depending on the scope of the amendment requested.

The Surveillance Network Program annexed to the Licence can be modified at the discretion of the Board and does not require a public hearing. A request for any proposed change to the Surveillance Network Program should be forwarded to the Board in writing, including a rationale for the change.

6. Specific clauses of your Licence make reference to the Board, Analyst or Inspector. The contact person, address, phone and fax number of each is:

BOARD:

Executive Assistant

Northwest Territories Water Board

Box 1500

YELLOWKNIFE, NT X1A 2R3

Phone No: (403) 920-8191 Fax No: (403) 873-9572

ANALYST:

Analyst

Water Laboratory

Northern Affairs Program
Department of Indian Affairs
and Northern Development

Box 1500

4601 - 52nd Avenue

YELLOWKNIFE, NT X1A 2R3

Phone No: (403) 920-8129 Fax No: (403) 873-9300

INSPECTOR:

Inspector

Fort Simpson District Office Northern Affairs Program Department of Indian Affairs and Northern Development

P.O. Box 150

FORT SIMPSON, NT XOE ONO

Phone No: (403) 695-2627 Fax No: (403) 695-2615

7. Your Licence requires a security deposit be submitted. The contact person, address, phone and fax number of the individual administering security deposits is:

Administrative Supervisor
Regulatory Approvals Section
Water Resources Division
Northern Affairs Program
Indian and Northern Affairs Canada
Box 1500
YELLOWKNIFE, NT X1A 2R3

Phone No: (403) 920-8247 Fax No: (403) 873-9318

NORTHWEST TERRITORIES WATER BOARD

Pursuant to the Northwest Territories Waters Act and Regulations the Northwest Territories Water Board, hereinafter referred to as the Board, hereby grants to

	CANADA TUNGSTEN MINING CORPORATION			
(Licensee)	SUITE 2501, 1 ADELAIDE STREET EAST TORONTO, ONTARIO M5C 2V9			
(Mailing Address)	101011101 0111111120			
water subject to Territories Wate	the restrictions and	ight to alter, divert or otherwise use conditions contained in the Northwest made thereunder and subject to and ined in this Licence.		
Licence Number		N3L2-0004 (RENEWAL)		
Licence Type		"A"		
Water Management	Area	NORTHWEST TERRITORIES 03		
Location		TUNGSTEN, NORTHWEST TERRITORIES		
Purpose		WATER USE AND WASTE DISPOSAL		
Description		FOR A MINING AND MILLING UNDERTAKING		

Quantity of Water Not to be Exceeded

Effective Date of Licence

Expiry Date of Licence

Description

SEE LICENCE, PART C

AND ASSOCIATED USES

SEPTEMBER 30, 1995

SEPTEMBER 29, 2002

This Licence issued and recorded at Yellowknife includes and is subject to the annexed conditions.

NORTHWEST TERRITORIES WATER BOARD

lak. Le Monel

Chairman

Minister of Indian Affairs and Northern Development

PART A: SCOPE AND DEFINITIONS

1. Scope

- a) This Licence entitles Canada Tungsten Mining Corporation to use water and dispose of waste for a mining and milling undertaking, and associated uses at Tungsten, Northwest Territories (Latitude 61°57'N. and Longitude 128°16'W.);
- b) This Licence is issued subject to the conditions contained herein with respect to the taking of water and the depositing of waste of any type in any waters or in any place under any conditions where such waste or any other waste that results from the deposit of such waste may enter any waters. Whenever new Regulations are made or existing Regulations are amended by the Governor in Council under the Northwest Territories Waters Act, or other statutes imposing more stringent conditions relating to the quantity or type of waste that may be so deposited or under which any such waste may be so deposited this Licence shall be deemed, upon promulgation of such Regulations, to be automatically amended to conform with such Regulations; and
- c) Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of applicable Federal, Territorial or Municipal legislation.

2. <u>Definitions</u>:

In this Licence: N3L2-0004

"Act" means the Northwest Territories Waters Act;

"Analyst" means an Analyst designated by the Minister under Section 35(1) of the Northwest Territories Waters Act;

"Board" means the Northwest Territories Water Board established under Section 10 of the Northwest Territories Waters Act;

"<u>Inspector</u>" means an Inspector designated by the Minister under Section 35(1) of the Northwest Territories Waters Act;

"Licensee" means the holder of this Licence;

"Minister" means the Minister of Indian Affairs and Northern Development;

"<u>Regulations</u>" means Regulations proclaimed pursuant to Section 33 of the Northwest Territories Waters Act;

"<u>Waste</u>" means waste as defined by Section 2 of the Northwest Territories Waters Act:

.

"Average Concentration" means the discrete average of four consecutive analytical results, or if less than four analytical results, the discrete average of the analytical results collected during a batch decant, and as submitted to the Board in accordance with the sampling and analysis requirements specified in the "Surveillance Network Program";

"Filtered Sample" means any sample that has been passed through a filter having a mesh size of 0.45 microns or equivalent;

"Minewater" means groundwater or any water used in mining which is pumped or flows out of any underground workings or open pit;

"Sewage" means all toilet wastes and greywater;

"<u>Tailings</u>" means material rejected from the mill after the recoverable valuable minerals have been extracted; and

"<u>Tailings Containment Area</u>" comprises the following engineered structures designed to contain Tailings: Tailings Pond #1, Tailings Pond #2, Tailings Pond #3, Tailings Pond #4, and Tailings Pond #5 (proposed).

PART B: GENERAL CONDITIONS

- 1. The water use fee shall be paid annually in advance.
- 2. The Licensee shall have posted and maintain a security deposit:
 - a) in the amount of Three Hundred and Fifty Thousand (\$350,000.00) Dollars pursuant to Section 17(1) of the Act and Section 12 of the Regulations during the long term shutdown; and
 - b) prior to re-start of mill operations, in the amount of Nine Hundred Thousand (\$900,000.00) Dollars pursuant to Section 17(1) of the Act and Section 12 of the Regulations. This amount shall be the aggregate sum of the Three Hundred and Fifty Thousand (\$350,00.00) Dollars referred to in Part B, Item 2(a), and the additional sum of Five Hundred and Fifty Thousand (\$550,000.00) Dollars.

The security deposit for both the long term shutdown and the operational phase shall be maintained until such time as it is fully or in part refunded by the Minister pursuant to Section 17 of the Act. This clause shall survive the expiry of this Licence or renewals thereof.

- 3. The Licensee shall file an Annual Report with the Board not later than March 31st of the year following the calendar year reported which shall contain the following information:
 - a) the monthly and annual quantity in cubic metres of water pumped from the Flat River;
 - b) the monthly and annual quantity in cubic metres of the solid and liquid fractions discharged to the Tailings Containment Area;

- c) the monthly and annual quantity in cubic metres of the solid and liquid fractions discharged to the underground;
- d) the monthly and annual quantity in cubic metres of Sewage discharged to the Tailings Containment Area;
- e) the monthly and annual quantity in cubic metres of Minewater discharged;
- f) tabular summaries of all data generated under the "Surveillance Network Program";
- g) a detailed record of major maintenance work carried out on the water supply and the waste disposal systems and all associated structures;
- h) revisions to the Contingency Plan as referred to in Part F;
- i) revisions to the Abandonment and Restoration Plan as referred to in Part G:
- j) a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
- k) a list of any unauthorized discharges; and
- 1) any other details on water use or waste disposal requested by the Board by November 1st of the year being reported.
- 4. The Licensee shall comply with the "Surveillance Network Program" annexed to this Licence, and any amendment to the said "Surveillance Network Program" as may be made from time to time, pursuant to conditions of this Licence.
- 5. The "Surveillance Network Program" and compliance dates specified in the Licence may be modified at the discretion of the Board.
- 6. Meters, devices or other such methods used for measuring the volumes of waters used and waste discharged shall be installed, operated and maintained to the satisfaction of an Inspector.
- 7. The Licensee shall maintain, to the satisfaction of an Inspector, the necessary signs to identify the stations of the "Surveillance Network Program".
- 8. The Licensee shall notify the Board at least six (6) months prior to restart of mill operations.
- The Licensee shall ensure a copy of this Licence is maintained at the site of operation at all times.

PART C: CONDITIONS APPLYING TO WATER USE

- 1. The Licensee shall, prior to re-start of mill operations, submit to the Board an investigative report outlining the feasibility of recycling water throughout the operation.
- 2. The Licensee shall obtain all water for mining, milling, domestic, and associated uses from the Flat River.
- 3. The weekly quantity of water withdrawn from the Flat River shall not exceed 45,000 cubic metres.
- 4. Notwithstanding Part C, Item 3, the Licensee shall not withdraw from the Flat River any quantity of water that will reduce the flow in the Flat River to less than 0.127 cubic metres per second immediately downstream of the water intake.
- 5. The water intake hose used on the water pumps shall be equipped with a screen with a mesh size sufficient to ensure no entrainment of fish.

PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

1. The Licensee shall maximize the use of cooling water from the powerhouse and Minewater within the mill circuit. Cooling water and Minewater which is not utilized in the mill may be discharged to Sardine Creek at Station Numbers 4-9, 4-12 and 4-13. This discharge shall not exceed the following effluent quality requirements:

PARAMETER	MAXIMUM AVERAGE CONCENTRATION		MAXIMUM CONCENTRATION OF ANY GRAB SAMPLE	
Total Arsenic Total Copper Total Lead Total Nickel Total Zinc Oil and Grease Total Suspended Solids Un-ionized Ammonia	0.50 0.10 0.10 0.20 0.10 5.0 25.0 0.20	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	1.00 0.20 0.20 0.40 0.20 10.0 50.0 0.40	mg/L mg/L mg/L mg/L mg/L mg/L mg/L

The discharge shall have a pH of between 6.0 and 9.5.

- 2. The Licensee shall at least six (6) months prior to any proposed construction of Tailings Pond #5, submit to the Board for approval new designs, drawings, and an implementation schedule for the construction of the impoundment. These designs may require liners for this pond to prevent groundwater seepage, should such be required by the Board.
- 3. The Licensee shall at least six (6) months prior to re-start of mill operations submit to the Board for approval the following:
 - a) a report that describes conditions of the groundwater monitoring wells and groundwater pumping wells including required remediation to be undertaken to bring them up to present day standards; and
 - b) should an effluent treatment plant be required by the Board, designs, drawings, and an implementation schedule for the construction of such a plant, including proposed methods of treatment to ensure that effluent discharged from the Tailings Containment Area meets the limits set out in Part D, Item 1.
- 4. Prior to construction of any external dams, dykes or structures intended to contain, withhold, divert or retain water or Waste, other than as contemplated in the Contingency Plan, the Licensee shall submit to the Board for approval design drawings stamped by a qualified geotechnical engineer registered in the Northwest Territories.
- 5. Construction of designed structures referred to in Part D, Item 4 shall be carried out as approved by the Board.
- 6. As-built drawings of the dams, dykes or structures referred to in Part D, Item 5 shall be stamped by a qualified geotechnical engineer registered in the Northwest Territories and submitted to the Board within ninety (90) days of completion of the facility(ies).
- 7. All Tailings shall either be deposited in the Tailings Containment Area or shall be deposited underground.
- 8. All Sewage shall be discharged to the Tailings Containment Area.
- 9. The Tailings Containment Area shall be constructed, operated and maintained to engineering standards such that:
 - a) the solids fraction of the Tailings deposited therein shall be permanently contained within the Tailings Containment Area;
 - b) a freeboard limit of 1.0 metre shall be maintained at all times in the Tailings Ponds, or as recommended by a qualified geotechnical engineer and as approved by the Board;
 - c) erosion of constructed facilities is addressed immediately;

- d) during milling operations, a daily inspection of the dams, Tailings line(s) and catchment basin(s), shall be carried out and records of these inspections shall be kept for review upon the request of an Inspector; and
- e) an inspection of the Tailings Containment Area shall be carried out annually during the summer season by a qualified geotechnical engineer registered in the Northwest Territories. The engineer's report shall be submitted to the Board within sixty (60) days of the inspection, including a cover letter from the Licensee outlining an implementation plan to respond to the engineer's recommendations.
- 10. All mill waste and Minewater discharged to the Tailings Containment Area shall not exceed the following effluent quality requirements on a Filtered Sample at Station Number 4-30:

PARAMETER	MAXIMUM AVERAGE CONCENTRATION	MAXIMUM CONCENTRATION OF ANY GRAB SAMPLE	
Dissolved Arsenic	0.50 mg/L	1.00 mg/L	
Dissolved Cadmium	0.005 mg/L	0.01 mg/L	
Dissolved Copper	0.10 mg/L	0.20 mg/L	
Dissolved Lead	0.10 mg/L	0.20 mg/L	
Dissolved Nickel	0.20 mg/L	0.40 mg/L	
Dissolved Zinc	0.10 mg/L	0.20 mg/L	
Un-ionized Ammonia	0.20 mg/L	0.40 mg/L	

- 11. The Licensee shall install and maintain groundwater monitoring wells and groundwater pumping wells as approved by the Board and as contemplated in Part D, Item 3(a).
- 12. The water quality at Station Numbers 4-27-1 to 4-27-9 inclusive shall not exceed the following effluent quality requirements:

PARAMETER	MAXIMUM CONCENTRATION OF ANY GRAB SAMPLE	
Total Arsenic	1.00 mg/L	
Total Cadmium	0.01 mg/L	
Total Copper	0.20 mg/L	
Total Lead	0.20 mg/L	
Total Nickel	0.40 mg/L	
Total Zinc	0.20 mg/L	
Total Suspended Solids	50.0 mg/L	
Un-ionized Ammonia	0.40 mg/L	

- 13. If, during the period of this Licence, the concentration of any sample collected at Station Numbers 4-27-1 to 4-27-9 inclusive exceeds the requirements as specified in Part C, Item 12 the Licensee shall:
 - a) implement the Contingency Plan for Groundwater Pumping specified in Part F, Item 2;
 - b) notify an Inspector immediately of the implementation of the Contingency Plan for Groundwater Pumping; and
 - c) file a report with the Board not later than thirty (30) days after implementation of the Contingency Plan for Groundwater Pumping, outlining the action taken to prevent groundwater that exceeds the requirements specified in Part D, Item 12, from reaching the Flat River.

PART E: CONDITIONS APPLYING TO MODIFICATIONS

.. ..

- 1. The Licensee may, without written approval from the Board, carry out modifications to the water supply and waste disposal facilities provided that such modifications are consistent with the terms of this Licence and the following requirements are met:
 - a) the Licensee has notified the Board in writing of such proposed modifications at least sixty (60) days prior to the beginning of the modifications;
 - b) such modifications do not place the Licensee in contravention of either the Licence or the Act;
 - c) the Board has not, during the sixty (60) days following notification of the proposed modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
 - d) the Board has not rejected the proposed modifications.
- 2. Modifications, for which all of the conditions referred to in Part E, Item 1 have not been met, may be carried out only with written consent from the Board.
- 3. The Licensee shall provide to the Board, as-built plans and drawings of the modifications referred to in Part E, Item 1 within ninety (90) days of completion of the modifications.

PART F: CONDITIONS APPLYING TO CONTINGENCY PLANNING

1. The Licensee shall by March 31, 1996 submit to the Board for approval a revised Contingency Plan in accordance with the Board's "Guidelines for Contingency Planning, January 1987". The Plan should outline the scenario for Long Term Shutdown.

2. The Licensee shall at least six (6) months prior to re-start of mill operations submit to the Board for approval a Contingency Plan in accordance with the Board's "Guidelines for Contingency Planning, January 1987". The Plan should outline the scenario for full production status. In addition to conforming with the Guidelines, the Plan shall also include a Groundwater Pumping Contingency Plan.

The Groundwater Pumping Contingency Plan shall describe in detail, action to be taken if the water quality at Station Numbers 4-27-1 to 4-27-9 inclusive exceeds the requirements specified in Part D, Item 12.

- 3. The Licensee shall revise the Plans referred to in Part F, Items 1 and 2 if not approved. The revised Plans shall be re-submitted to the Board for approval within three (3) months of receiving notification of the Board's decision.
- 4. The Licensee shall review the Contingency Plans annually and modify the Plans as necessary to reflect changes in operation and technology. Any proposed modifications shall be submitted to the Board for approval.
- 5. If, during the period of this Licence an unauthorized discharge of Waste occurs, or an unauthorized discharge is foreseeable, the Licensee shall:
 - a) employ the appropriate Contingency Plan;
 - b) report the incident immediately via the 24 Hour Spill Line (403) 920 8130; and
 - c) submit to an Inspector a detailed report on each occurrence not later than thirty (30) days after initially reporting the event.

PART G: CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION

- 1. The Licensee shall by March 31, 1997 submit to the Board for approval an updated "Interim" Abandonment and Restoration Plan in accordance with the Board's "Guidelines for Abandonment and Restoration Planning for Mines in the Northwest Territories, September 1990." The Plan should reflect two scenarios; Long Term Shutdown, and Final Abandonment.
- 2. The Licensee shall revise the Plan referred to in Part G, Item 1 if not approved. The revised Plan shall be submitted to the Board for approval within six (6) months of receiving notification of the Board's decision.
- 3. The Licensee shall review the Abandonment and Restoration Plan annually and shall modify the Plan as necessary to reflect changes in operation, technology, and results of reclamation and/or other studies. The proposed modifications shall be submitted to the Board for approval.

- 4. The Licensee shall complete the abandonment and restoration work within the time schedule specified in the Plan, or as subsequently revised and approved by the Board.
- 5. Notwithstanding the time schedule referred to in the Abandonment and Restoration Plan, the Licensee shall endeavour to carry out progressive restoration of areas which are abandoned prior to closure of operations.
- 6. Compliance with the Abandonment and Restoration Plan specified in this Licence does not limit the legal liability of the Licensee, other than liability arising from provisions of the Act and its Regulations.

NORTHWEST TERRITORIES WATER BOARD

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NORTHWEST TERRITORIES WATER BOARD

LICENSEE:

CANADA TUNGSTEN MINING

CORPORATION LIMITED

LICENCE NUMBER:

N3L2-0004

EFFECTIVE DATE OF LICENCE

RENEWAL:

SEPTEMBER 30, 1995

EFFECTIVE DATE OF AMENDED SURVEILLANCE NETWORK PROGRAM:

SEPTEMBER 30, 1995

SURVEILLANCE NETWORK PROGRAM

A. Location of Sampling Stations

Station Number	<u>Description</u>
4-1	Flat River at the mine and mill freshwater intake, located in the pumphouse.
4-5	Flat River at bridge downstream of airstrip.
4-6	Decant from Tailings Pond No. 3 to Tailings Pond No. 4.
4-9	Discharge of oil/water separator at Meter 628 to Sardine Creek.
4-10	Any point between Tailings Pond No. 3 and Tailings Pond No. 4 where seepage is visible.
4-11	Tailings discharge pipe at point of discharge to Tailings Pond No. 3.
4-12	Discharge from conveyor gallery. 🗸
4-13	Discharge from "E" Zone.
4-12	discharge to Tailings Pond No. 3. Discharge from conveyor gallery.

4-20	Drainage culvert from natural pond adjacent to the S.E. corner of Tailings Pond No. 3.	
4-21	Water Survey of Canada stream gauge located on Flat River.	
4-27-1	Groundwater monitoring well, MW-1.	
4-27-2	Groundwater monitoring well, MW-2.	
4-27-3	Groundwater monitoring well, MW-3.	
4-27-4	Groundwater monitoring well, MW-5.	
4-27-5	Groundwater monitoring well, MW-6.	
4-27-6	Groundwater monitoring well, BH-42.	
4-27-7	Groundwater monitoring well, BH-43.	
4-27-8	Groundwater monitoring well, BH-44.	
4-27-9	Groundwater monitoring well, BH-53.	
4-28-1	Groundwater pumping well, PW-1.	
4-28-2	Groundwater pumping well, PW-2.	
4-29	Flat River, 3 kilometres upstream of pumphouse.	
4-30	Mill tailings at confluence of two mill waste pipelines at the drop box.	
4–31	Sardine Creek upstream of oil/water separator.	
4-32	Sardine Creek downstream of oil/water separator.	

B. Sampling and Analysis Requirements

1. Water shall be sampled monthly during the period April to October and one time during the winter period, at Station Numbers 4-5 and 4-29, and analyzed for the following parameters:

Total Copper Total Zinc

2. Effluent shall be sampled monthly during the period April to October and one time during the winter period, at Station Numbers 4-12 and 4-13, and analyzed for the following parameters:

Total Copper Total Suspended Solids

The pH, conductivity and temperature shall be recorded at the time of sampling.

Total Zinc

Oil and Grease

3. Groundwater shall be sampled three (3) times per year (late May, July and October) at Station Numbers 4-27-1 to 4-27-9, at the piezometers listed in the following table. Groundwater shall also be sampled at Station Number 4-27-6 in August. All samples shall be analyzed for the following parameters:

Total Zinc Total Copper Total Suspended Solids

The pH, conductivity and temperature shall be recorded at the time of sampling.

If groundwater samples cannot be collected at the piezometer nearest the surface, a sample shall be collected at the first piezometer that yields groundwater. The piezometric head and number shall be recorded.

If the concentration of any regulated parameter is above Licence limits in any groundwater well, as determined from October sampling and analysis, then that well shall be sampled and the water analyzed as above in January.

Surveillance Station Number	Piezometers to be Sampled		
4-27-1 4-27-2 4-27-3 4-27-4 4-27-5 4-27-6 4-27-7 4-27-8 4-27-9	MW1-10, MW2-7, MW3-10, MW5-9, MW6-13, BH42-3, BH43-12 BH44-4, BH53	MW1-6, MW2-4, MW3-6, MW5-5, MW6-8, BH42-2, BH43-6, BH44-2,	MW1-1, MW2-1, MW3-1, MW5-1, MW6-1, BH42-1 BH43-1 BH44-1,

Location References:

Report to Canada Tungsten Mining Corporation Limited on Hydrogeological Investigation, Summer 1982, Golder Associates, January 1983, Report 822-1063.

Summary Report, Waste Management System, Tungsten, N.W.T., Sigma Resources Consultants Ltd., Golder Associates Ltd., June 1981, Report SRCZ 3259.

- 4. All sampling, sample preservation and analysis shall be conducted in accordance with methods prescribed in the current edition of "Standard Methods for the Examination of Water and Wastewater", or by such other methods approved by an Analyst.
- 5. All analysis shall be performed in a laboratory approved by an Analyst.
- 6. The Licensee shall by December 15, 1995, submit to an Analyst for approval, a quality assurance/quality control plan which includes both field and laboratory requirements.
- 7. The plan referred to in Part B, Item 6 shall be implemented as approved by an Analyst.

C. Flow Measurement Requirements

1. The monthly quantity of water in cubic metres withdrawn from Station Number 4-1 shall be recorded.

D. Reports

1. Unless otherwise requested by the Board, the Licensee shall submit to the Board all of the data and information required by the "Surveillance Network Program" in the Licensee's annual report, which is due no later than March 31st of the year following the calender year being reported.

NORTHWEST TERRITORIES WATER BOARD

Jamelak. LeMonel

Chairman

July 17, 1997

David J. Libby, P.Eng, Vice President, Mining Operations Aur Resources Inc. 1 Adelaide Street East, Suite 2501 TORONTO, ON M5C 2V9

INDIAN AND NORTHERN AFFAIRS — CANADA N.W.T. REGION

AUG 1'1' 1997

WATER RESOURCES DIVISION YELLOWKNIFE, NT

Dear Mr. Libby:

RE: AMENDED "SURVEILLANCE NETWORK PROGRAM"

The Northwest Territories Water Board has reviewed your letter of June 27, 1997 requesting an amendment of the reporting requirements in Part B of the Surveillance Network Program.

The Board hereby approves this request. Please find attached an amended Surveillance Network Program which states that the water sampling period in Part B, items 1 and 2 are amended to "May to October".

If you require further assistance, please contact this office. If your inquiry is of a technical nature, please contact Mr. Brian Collins at (403) 669-2657 or Mr. David Milburn at (403) 669-2650 of the Water Resources Division.

Sincerely,

Gordon Wray Chairman

N.W.T. Water Board

Attach.

NORTHWEST TERRITORIES WATER BOARD

LICENCE AMENDMENT

LICENSEE:

CANADA TUNGSTEN MINING CORPORATION LIMITED

LICENCE NUMBER:

N3L2-0004

EFFECTIVE DATE:

July 17, 1997

Pursuant to the Northwest Territories Waters Act the Northwest Territories Water Board hereby grants the following Licence Amendment.

- 1. PART B of SNP, Item 1 and 2 is hereby rescinded and replaced with:
 - Water shall be sampled monthly during the period May to October and one time during the winter period, at Station Numbers 4-5 and 4-29, and analyzed for the for the following parameters:

Total Copper

Total Zinc

The pH, conductivity and temperature shall be recorded at the time of sampling.

2. Effluent shall be sampled monthly during the period May to October and one time during the winter period, at Station Numbers 4-12 and 4-13, and analyzed for the following parameters:

Total Copper

Total Zinc

Total Suspended Solids

Oil and Grease

The pH, conductivity and temperature shall be recorded at the time of sampling.

This Licence Amendment issued and recorded at Yellowknife, Northwest Territories on July 17, 1997.

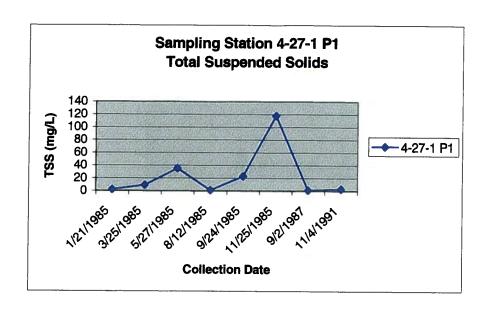
NORTHWEST TERRITORIES WATER BOARD

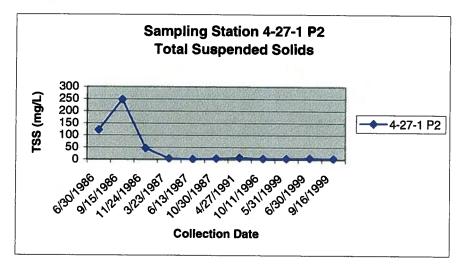
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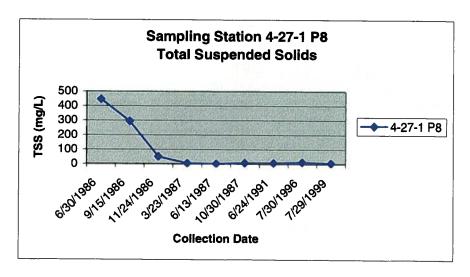
Chairman

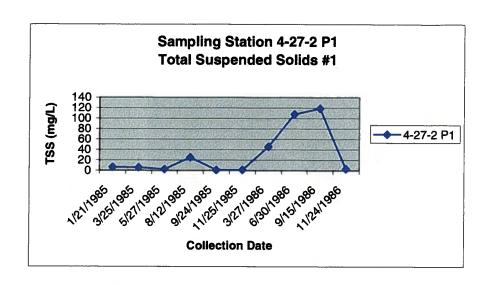
Appendix B

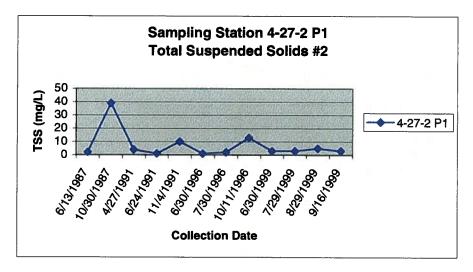
Graphs of Total Suspended Solids SNP Data

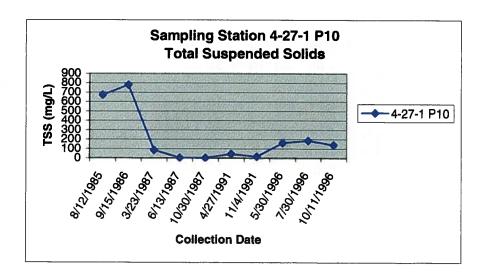


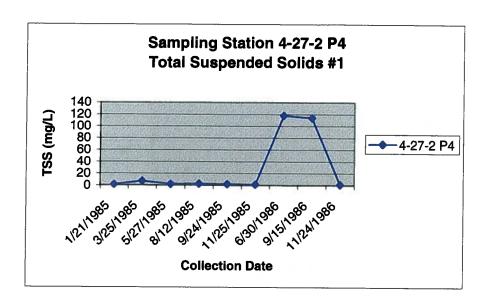


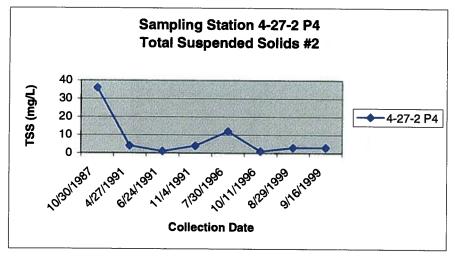


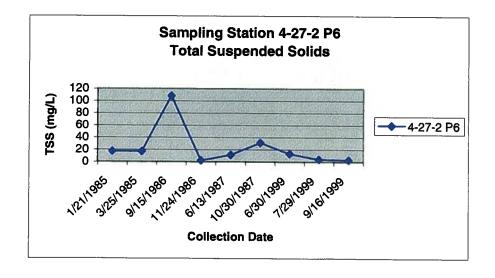


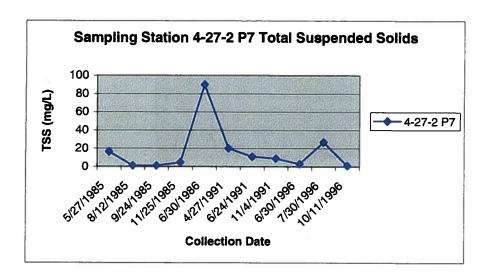


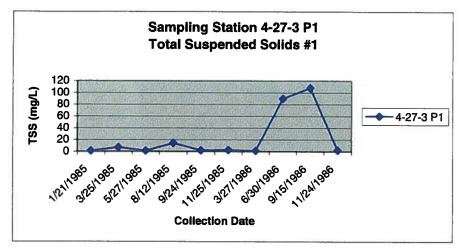


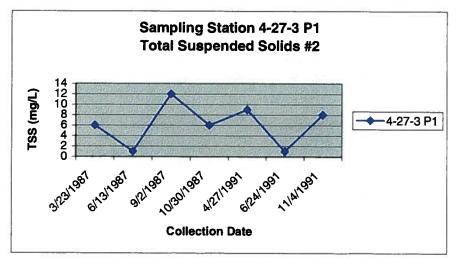


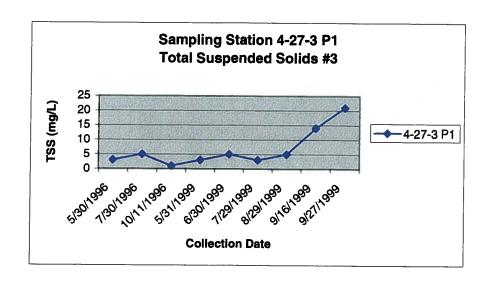


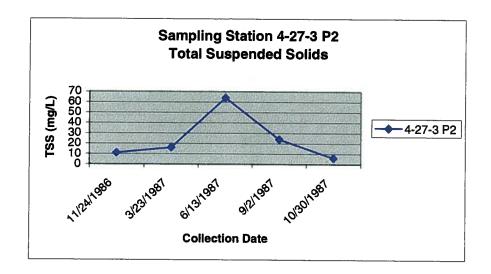


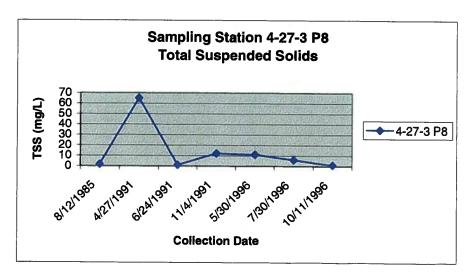


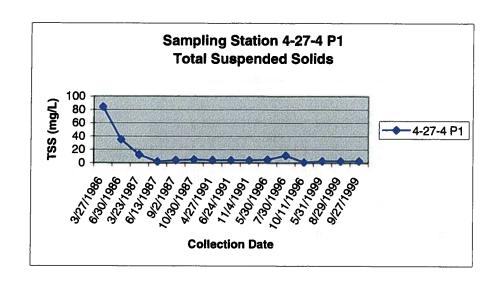


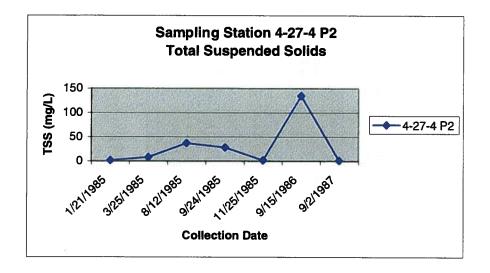


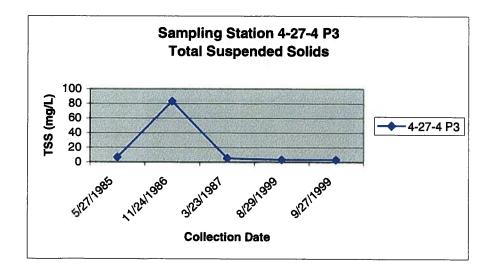


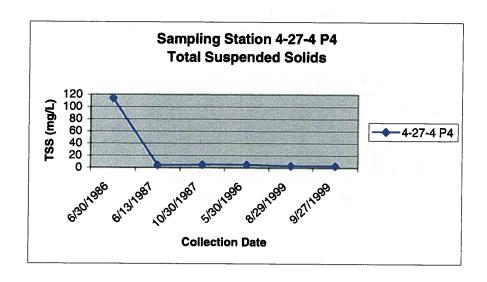


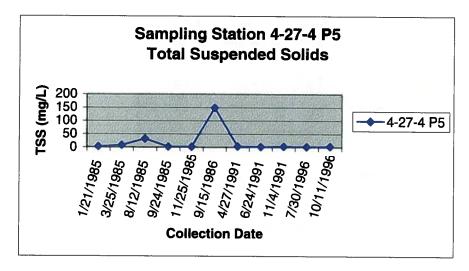


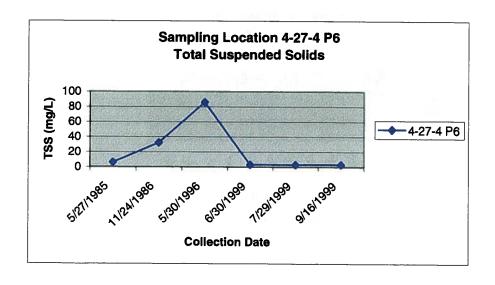


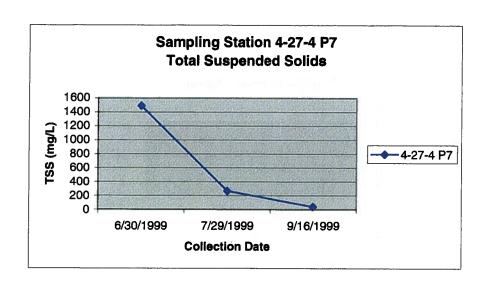


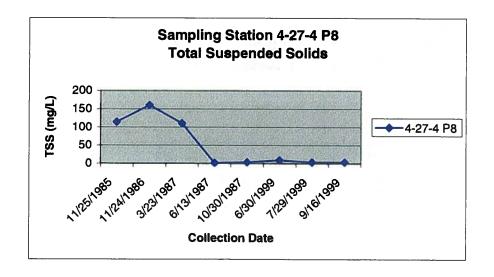


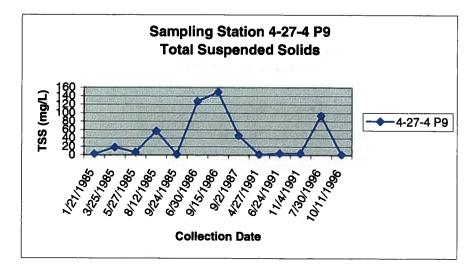


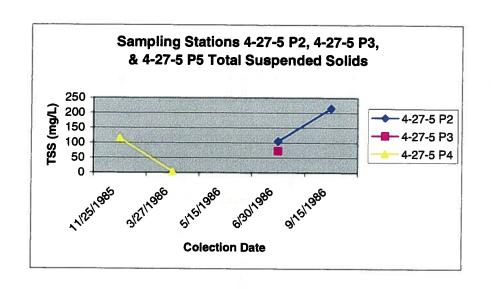


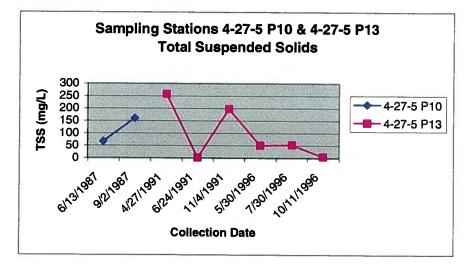


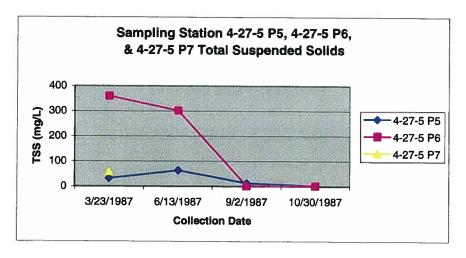


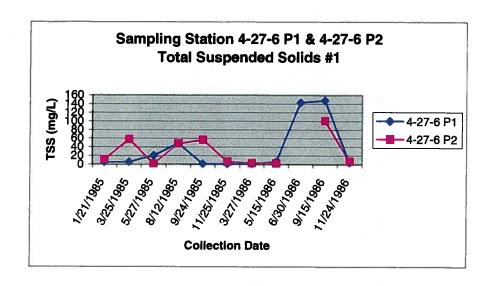


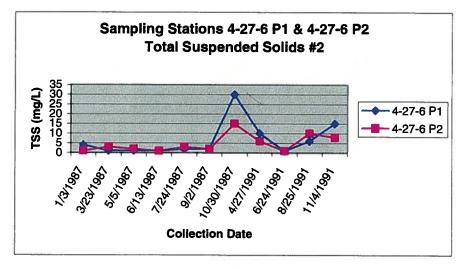


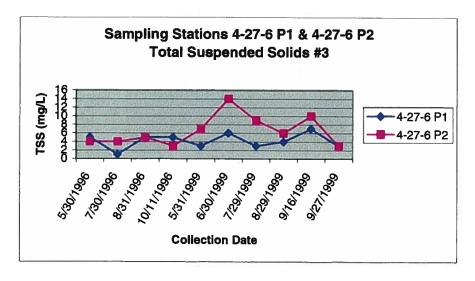


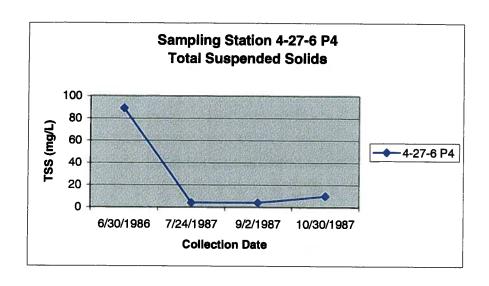


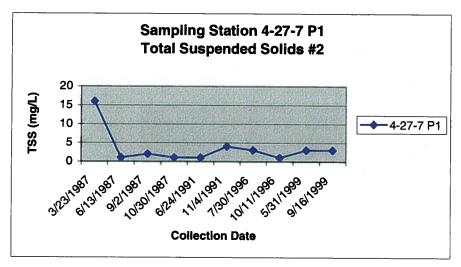


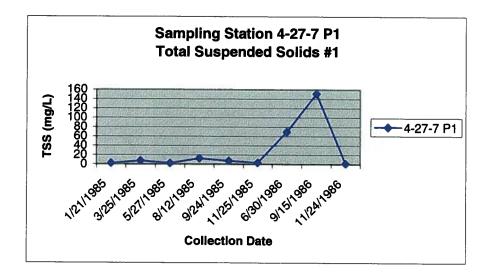


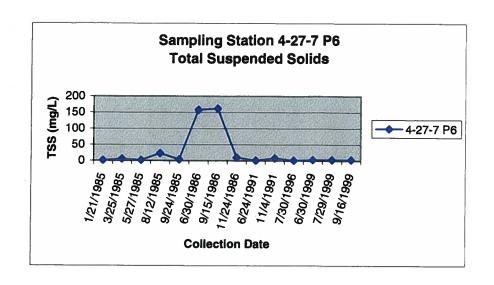


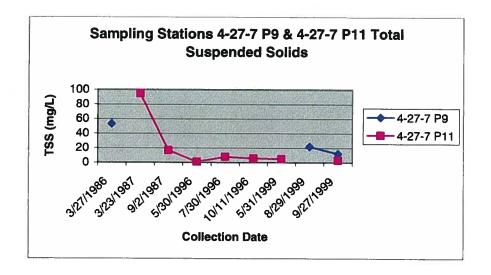


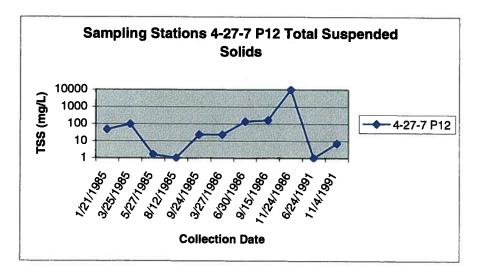


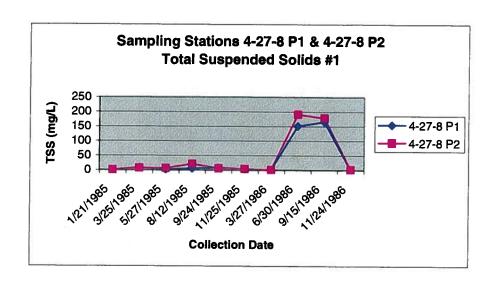


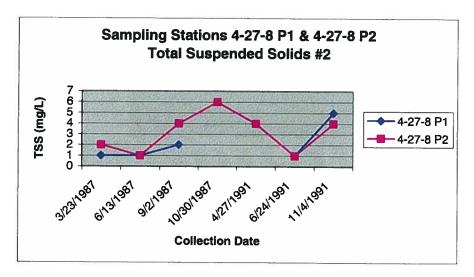


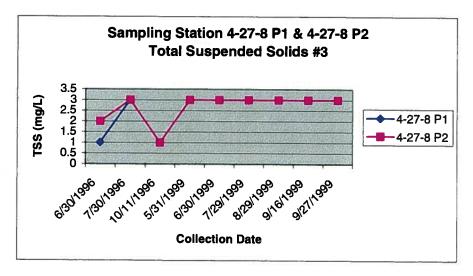


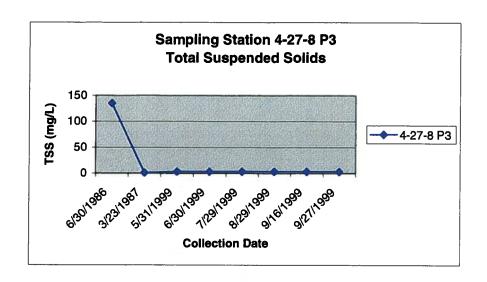


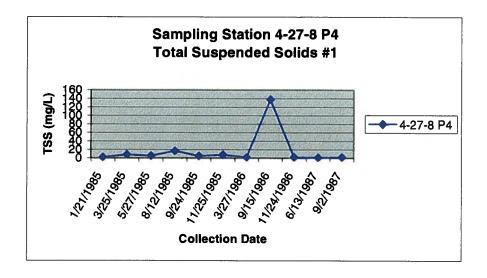


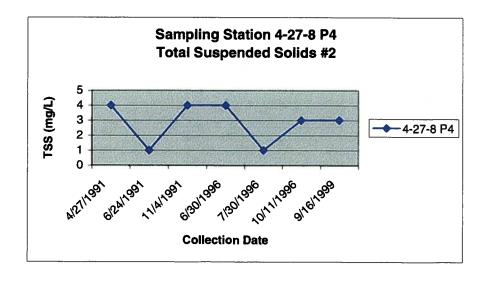


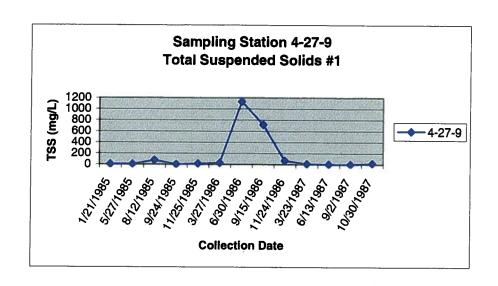


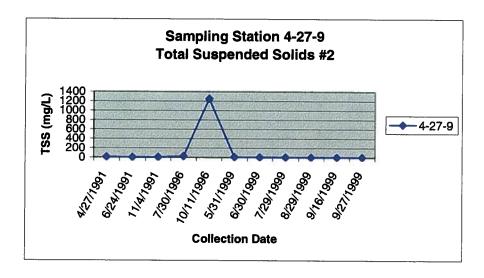




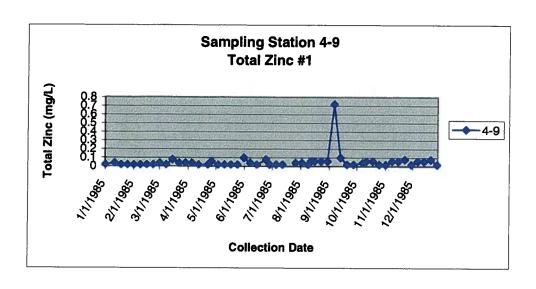


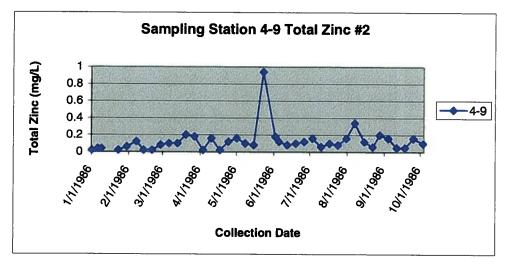


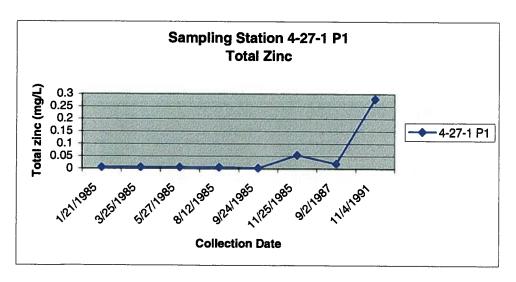


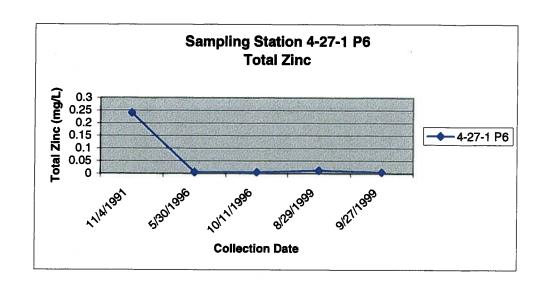


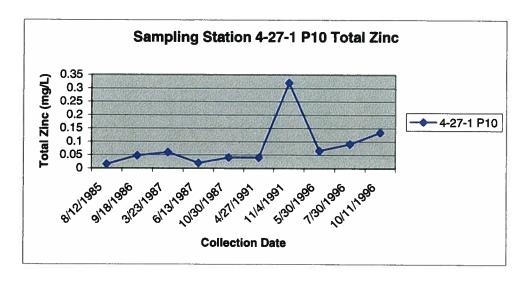
Appendix C
Graphs of Total Zinc SNP Data

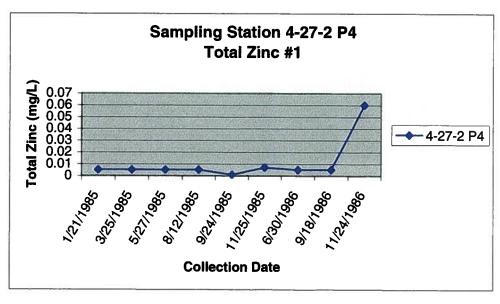


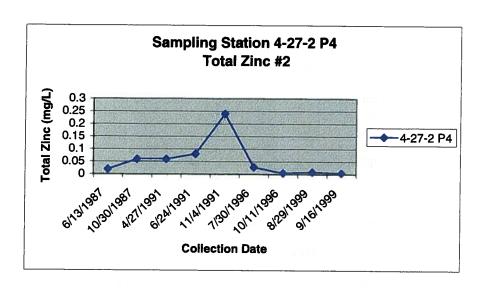


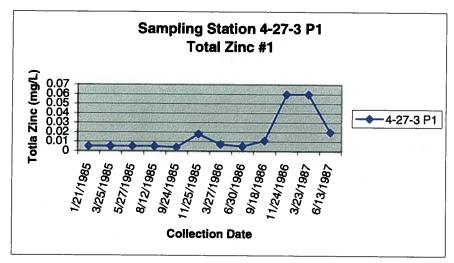


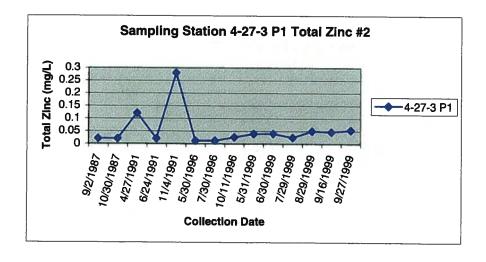


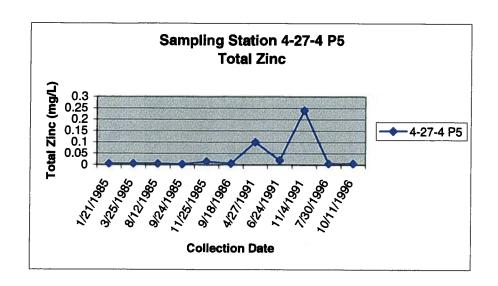


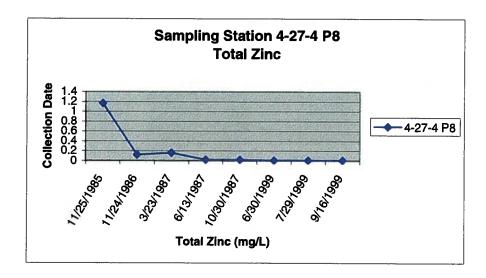


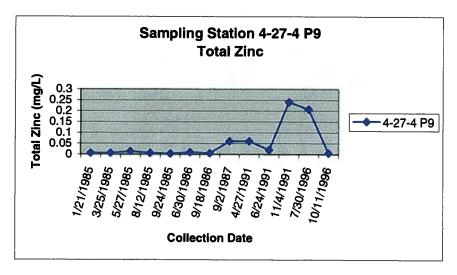


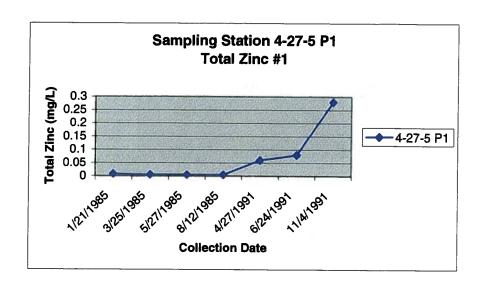


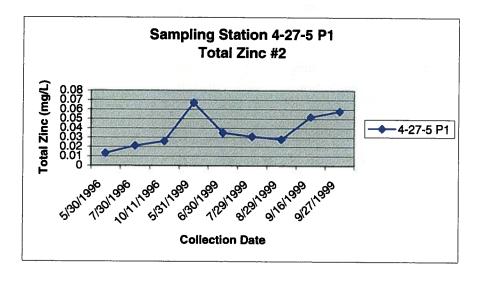


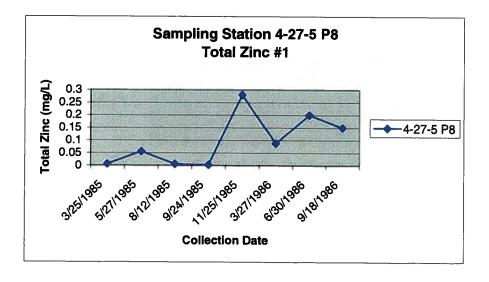


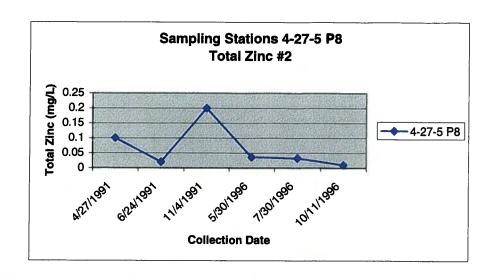


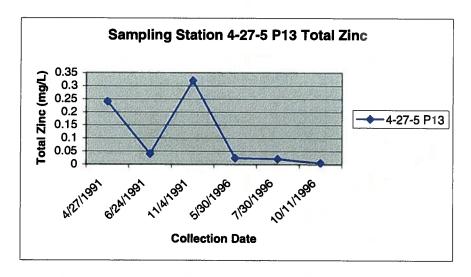


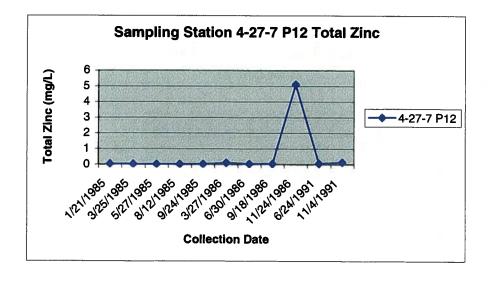


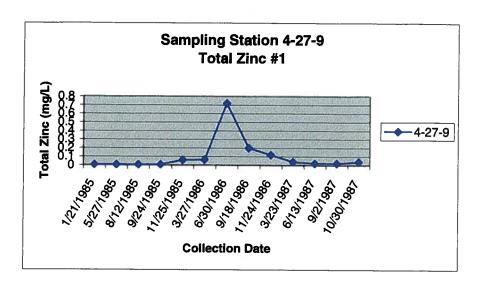


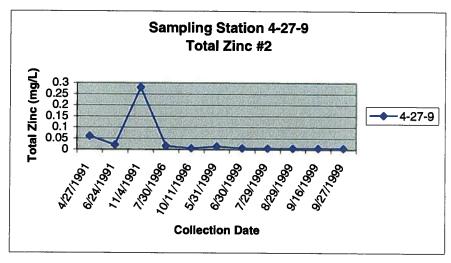






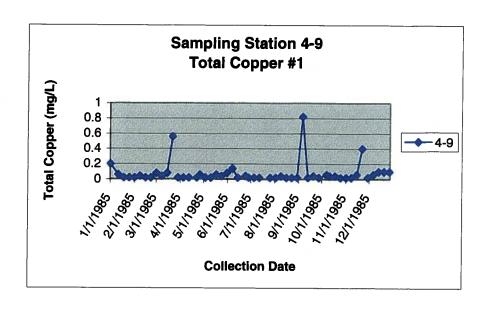


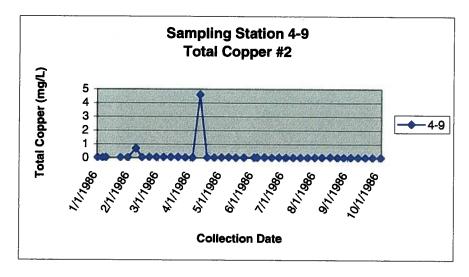


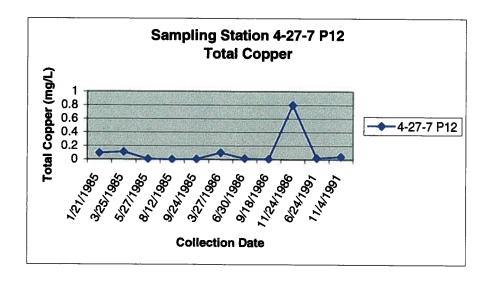


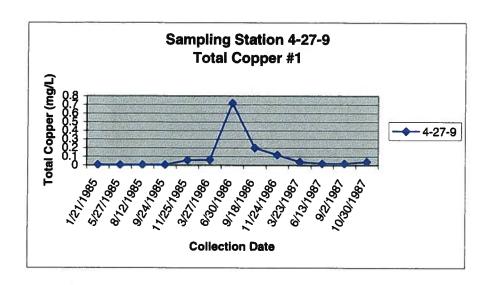
Appendix D

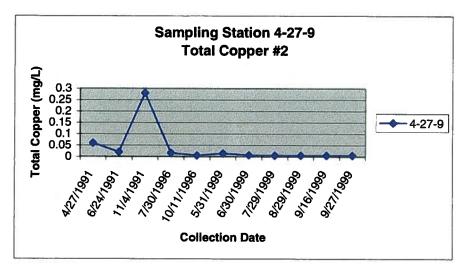
Graphs of Total Copper SNP Data





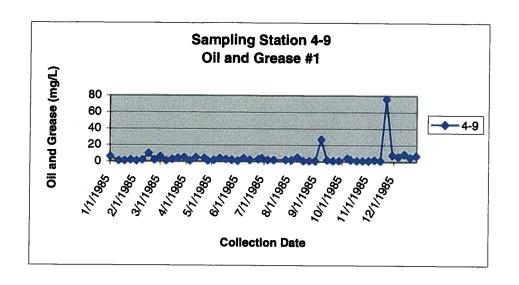


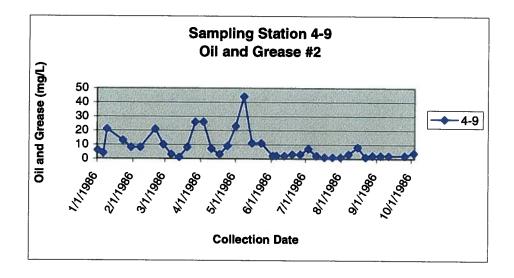


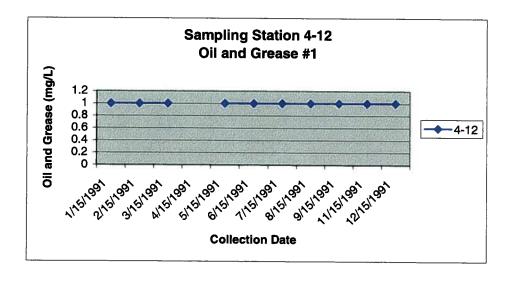


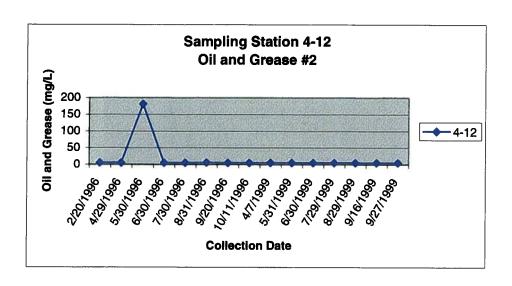
Appendix E

Graphs of Oil and Grease SNP Data

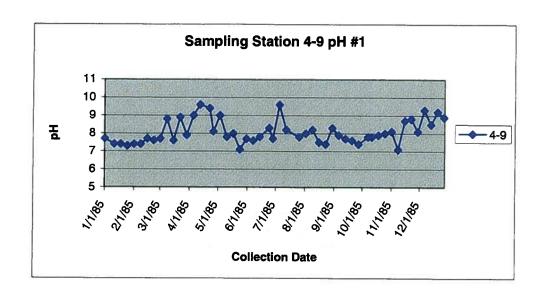


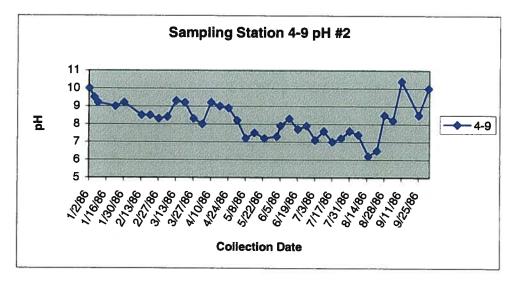


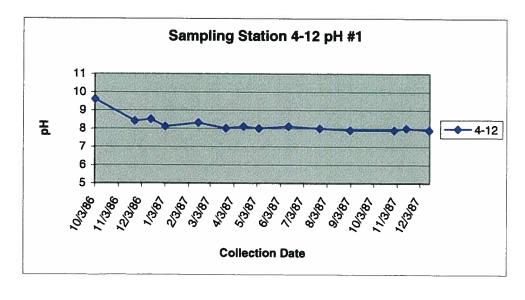


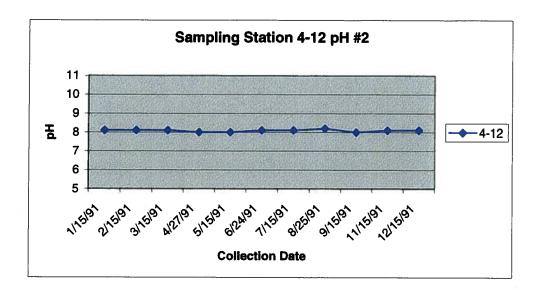


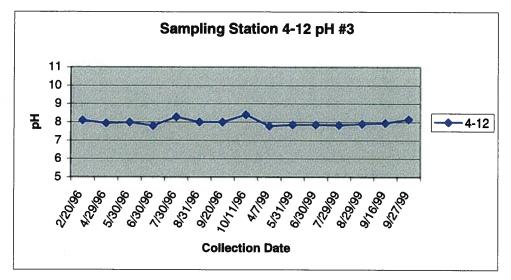
Appendix F
Graphs of pH SNP Data











Appendix G

Table of Total Suspended Solids SNP Data

		TOTA	AL SUSP	ENDED S	SOLIDS (mg/L)				
				pling Sta					
Collection Date	4-5	4-12	4-13	4-29	4-27-1 P1	4-27-1 P2	4-27-1 P3	4-27-1 P4	4-27-1 P5
1/21/1985					2				1.2
3/25/1985	學和	等級小部 律		THE REAL PROPERTY.	9	10元为各区 2000	公司等3000000		7
5/27/1985					35.2				1.2
8/12/1985		地區的	地震學	- 10 m	200厘月	1700年的 1800年	(E) 图点形式设计	Accessed to the	4
9/24/1985					23				7
11/25/1985	開設部	國際監察	建		118		国际的国际	STATE OF THE STATE OF	
3/27/1986					3.55 de 10.00 de 10.00 de	PERSONAL TREATMENT			
5/15/1986	0.0	信款度認	明记数	医 具 18 18	WHEN THE STATE OF			Mary Control	100
6/30/1986						122			
9/15/1986	の		是生物的			248			Selection of the color
11/24/1986						46			
1/3/1987			建设设置	建學經		2000年中国国际	《中国》		and the state of t
3/23/1987						4			
5/5/1987	SHEEL STATE				供作编制的产品的	STATE OF SALE	一种用的多种的性态	编设在"和基金的"	
6/13/1987						1			
7/24/1987			の記述	國際	美国民党 国际产业经	一次可以他也是	the Depth of the Land	可能是这种性性的	1. De
9/2/1987					1				1
10/30/1987					用加速的加速	4 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WHEN THE STATE OF	1 (A)
1/15/1991	1	1							
2/15/1991	1			建 1255	多的证据是 \$5000000000000000000000000000000000000	THE PERSON NAMED IN	April 1 Const		
3/15/1991	1	1		1	la mar no l				
4/27/1991	4	通性的	Sept 18	2	包里的时间 处,转值	7 July 1	A REAL PROPERTY.	国际	
5/15/1991	4	2							
6/24/1991	5	[2]	· 斯丁克斯	TO THE	《新西班牙》	· 共享的企业的企业。		5	ALC: NEW YORK
7/15/1991	6	1	1	3					
	7	2	1683世	5	是一种的一种自己的				建设公司
9/15/1991	1	1	12	2					
11/4/1991	5	遊門園園	2	縣4世	3 7			學學學	
12/15/1991	4	1		1					
2/20/1996	3	# 1881	語系統語	2	理解是整路市民事机论	PERSONAL PROPERTY.	常把隐藏的治	20世紀 李明 20世紀 20世紀 20世紀 20世紀 20世紀 20世紀 20世紀 20世紀	(4)
4/29/1996	2	27		7					
5/30/1996	57	翻 1 都	性學指揮	15	多有机则则为完整			25	国共产党
6/30/1996	3	1	1	2					
7/30/1996	10	38.1 m	於如實際	9	国际公司 200 200 200 200 200 200 200 200 200 20	の表別との意味	新	35	全国企业内部
8/31/1996	7	5	1	3					
9/20/1996	3	5	是100	是33%	建筑等特别的		斯特斯斯斯斯斯斯斯斯	经训练员的	阿尔列加阿尔 林亚
10/11/1996	2	2	1	4		3			
4/7/1999	3	3	海绵的	學的就	的問題的表示的話	以图的图像			JE 52 For 10 F
5/31/1999	3	4	3	6		3			3
6/30/1999	9	3	3	2011	是自由的人员会	5		阿拉斯公司 中国	
7/29/1999	4	3	3	5			3		
8/29/1999	3	3	3	3				经国际的	3
9/16/1999	7	3	3	3		3	3	4	
9/27/1999	3	3	3	3	写道 Wind Early Milk	多的特別的學生產的特別	Program D		3

			JSPENDED SOL Sampling Station				
Collection Date	4-27-1 P6	4-27-1 P7	4-27-1 P8	4-27-1 P9	4-27-1 P10	4-27-2 P1	4-27-2 P2
1/21/1985			1	1,6	<u> </u>	6.4	
3/25/1985	是 被制度的重要的		经产品的	13	\$ 17 P. 3	6	
5/27/1985				5.6		2.4	
8/12/1985	区域的模型包含	是是計學的物	高海域和		870	5 25.2 A	
9/24/1985				6		1	
11/25/1985	持能力与維持的性性	司作由於中心社會	电影型 经开始股			1.2	
3/27/1986						46	
5/15/1986	the state of		ME FORES	SECULAR SECO	为 (T.) () () () () () () ()	i ut	
6/30/1986			446			108	
9/15/1986	2000年1月1日 200	C MADE TO SERVE	294		779	119	I
11/24/1986	ENT THE PLANE AND THE PERSON	PROTECTION OF THE PROTECTION O	50	**		3	PER SELECTION STREET
1/3/1987 3/23/1987	TO DESCRIPTION OF THE PARTY NAMED IN	经上级工程的选择的		The Burney A	A REAL WATER AND DESCRIPTION A	A 175	
5/5/1987	Shilling Strategy and the	PERSONAL PROPERTY AND ADMINISTRATION OF THE PERSONAL PROPERTY AND ADMINISTRATION OF THE PERSONAL PROPERTY AND ADMINISTRATION OF THE PERSONAL PROPERTY ADMINISTRATION OF THE PERSONAL PROPERTY AND ADMINISTRATION OF TH	3	19EB	84	SEPON KIND OF STATE OF	Commission of the last
6/13/1987	2000年2月1日 1日 1	GARDEN STREET	1	Statement 19 th and the Name	1	2	
7/24/1987	SERVICE STATE OF A PARTY	Service of the servic		MARCH TO THE	On the Control of	25.51	14.45 推开的图像
9/2/1987	STREET, STATE OF STREET, STREE	Control of the Contro		1	The state of the s		2
10/30/1987	2000年100日本日本	DESCRIPTION OF THE PARTY.	6 4 6 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1 2 7 1 7	39	
1/15/1991	Charles and Charles Avid and Ballion of Labor.			CONTRACTOR STORY AND ADDRESS			
2/15/1991	Ministration of the second		THE STATE OF THE S		NAME OF STREET		
3/15/1991				Control of the Contro		May continue the most partierning	
4/27/1991	经验证据	7			43	4	THE STREET, STREET
5/15/1991							
6/24/1991			5	医	Constant Production	通知的目的 国务	阿里克罗马斯
7/15/1991							
8/25/1991	京 如 亚洲	30.0000 1400 1400	14多/80/88/88/64	以前的种型	AND THE SHAPE	四部分學院的學歷	
9/15/1991	A						
11/4/1991	4	1001年 1001年 1001年 1001年	有思想即由》		15	10	包含是自然的
12/15/1991	A CONTRACTOR				Secretary Secretary Control	O arminoscipliante emplember	
2/20/1996				音机学织和影响	學學是可能是	71 75 1	南海地域为7000000000000000000000000000000000000
4/29/1996 5/30/1996	18	Maria Company of the sale	Advisor Constitution	KARATA MATERIA III.	160		Particular and Allegarian
6/30/1996	を表現を記しい。 10世紀 日本		Photo Representatives	MEISON MILE WOLDEN	100	1	金融等[CALF #12]基
7/30/1996	经验证 经验证 医静态	AND RESIDENCE OF THE PARTY OF T	100 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S. Carlo	184	2	(用)(1)(中)(2)(1)(2)(1)
8/31/1996	NORTH AND ADDRESS	ATTENDED ATTENDED				The state of the s	SIX MENT PRINCIPLE
9/20/1996		海馬里里 河南 南	A CONTRACT OF THE PARTY OF THE				表现对话的 以及管理
10/11/1996	1	Min. Topics of the Activities of	CONTRACTOR STATES OF THE STATE	CHANGE OF PARTIES AND PROPERTY.	138	13	CONTROL OF STREET
4/7/1999	国际的基本性领域	2 		IN LINE SURVEY BOX	BEST BURNESS		
5/31/1999							
6/30/1999	是在社会的 自然和		12.55 × 12.54 × 12.54	A STATE OF THE STATE OF		3 4	
7/29/1999			3	3	the state of the s	3	
8/29/1999	地位是3年8年2	3	这年间的第三人称单数	能對於實際類似	阿拉拉克	Fre * 5	
9/16/1999						3	
9/27/1999	3	3		与他们已然长度 4亿	K ROLL AND DE	Sale on All	的

			TOTAL S	JSPENDED SOL Sampling Station	IDS (mg/L)			
Collection Date	4-27-2 P3	4-27-2 P4	4-27-2 P5	4-27-2 P6	4-27-2 P7	4-27-2 P9	4-27-3 P1	4-27-3 P2
1/21/1985		1		16,8	, <u> </u>		1	4-21-3 F2
3/25/1985		7	利西斯斯加州 西部市	17	THE PROPERTY OF	1771	7	\$252450000000000000000000000000000000000
5/27/1985		2		White the South Control of the South	16.4		1	No. of the American
8/12/1985	6年有益治疗病疾症体	2.4		45 D = 10 10 10 10 10 10 10 10 10 10 10 10 10	3 4 14	12 12 15 15 15 15	14	13000000000000000000000000000000000000
9/24/1985		2			1		2	A DESIGNATION OF THE PERSON OF
11/25/1985	新山中公司山 山西京	到的现在1904年度			4.8	建筑地震的	24	
3/27/1986							1	
5/15/1986		和認識的特別	《学生》			23H 37		
6/30/1986		118			90		90	
9/15/1986		114		108	176		108	66123738
11/24/1986		1		2			2	11
1/3/1987			のの意味を	X (2、國子院的	The state of the s		"在被你们。"除着一
3/23/1987							6	16
5/5/1987	经验证的 的	"新兴文文学"	建設工作				STATE OF THE PARTY	4 7 34 1 2 3
6/13/1987	3			11			1	64
7/24/1987	验据数据讨论外处	经验证的 国际证明	AND THE RESERVE	1 5 215 B.		1864		
9/2/1987			34			38	12	24
10/30/1987	新島語和 韓國都然	36		31		34	8	6
1/15/1991								
2/15/1991			整新社会机图的代数	THE PARTY			是在一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
3/15/1991								
4/27/1991	(A)	4 1 2 1			20	(首节目) "公林學	9	
5/15/1991 6/24/1991								
7/15/1991	500 月星/公司公司	MARKET TOWN	Charles In Alex	A LA ALLER AND MANAGEMENT	117	a 2 图,2 图 2 2 2	新於國際的 。199	是計學的研究
8/25/1991	CHARLES NO TO INDUSTRATE	Programme and the second		grade and analysis are an area	M HARDS	ea are received and a large	100 TO 10	
9/15/1991	CHIARCED LI FEDRINAN	Received Avenue of the		创作。有一种产品的基础是	是	the man	国际国际发展	TO LABOR TO THE
11/4/1991		4		WHEN SHOT SHEET	9	19 4 B	0 634 (8	(CATALINE PROPERTY)
12/15/1991	Water College Street Street Street	日式 EGT (1) 105 (1) (100)		ATESTA PROPERTY HEAVY	TO COMPANY OF THE PARTY OF THE	Service Assessment	V 4. 41. 8	形型自由被外型原生
2/20/1996			ELECT TOTAL SECTION	Contractor of Contractor	A STATE OF STREET	8.4 M. T.		MINISTER AND ADDRESS OF THE PARTY OF THE PAR
4/29/1996	No. of Concession, Name of Street, or other Persons, Name of Street, or ot		A THE STATE OF THE	A THE REAL PROPERTY.	Astronomic Company	and the same of th	THE RESERVE OF THE SEC.	物上是主持教育的
5/30/1996	经 证为现金是上面的	STEPANSON NEWSFILM	7篇、知道高兴经济。1	NAME OF BRIDE	THE PERSON NAMED IN		3	NAME OF TAXABLE
6/30/1996		Información describación del	3	Market Market State of State o	3	ar all the same of the same	PROPERTY OF THE PARTY AND	HAPPEN DE LE PROPERTY
7/30/1996	度可能是现在4.4.4.6.500	12		CANADO CARA	27		5	ON COMPANY SERVICE SER
8/31/1996	,				AND RESIDENCE AND PROPERTY.	or other designation of the second	EXTENSION NO. OF STREET, SALES	发展17、加州市共和国共和党委员会
9/20/1996		可以上次的		联节期存储	\$400 NO. OF THE REST OF		A STANSON OF THE STANSON	A DECEMBER OF PARTY OF THE PART
10/11/1996		1			1		Section Control of the Control of th	
4/7/1999	CONTRACTOR OF	ME HARRIE	STREET, STREET	- ROBERT	HARRIES STATE	P PSA	A STATE OF THE REAL PROPERTY.	医型性内部
5/31/1999							3	
6/30/1999	新数据数 与	10000000	9	13	· 原数	442000000	5	AND THE STREET, STREET
7/29/1999	7			4			3	7,000
8/29/1999	3 2	3 112	3	不得的是"数"。	图 短 医	从类面外	5	SEE NEW YORK
9/16/1999		3		3			14	
9/27/1999	3		3	\$150 × 50 × 55	第12号 计、内模		21	第2000年代

				PENDED SO	OLIDS (mg/L)				
Collection Date	4-27-3 P3	4-27-3 P5	4-27-3 P6	4-27-3 P8	4-27-4 P1	4-27-4 P2	4-27-4 P3	4-27-4 P4	4-27-4 P5
1/21/1985				-		1.2			1.6
3/25/1985			8			8	14.5 Mg 18.5		7
5/27/1985							6.4		
8/12/1985	13.2	No. of the last of	18.4	1.6	The second second	36.8	THE RESIDENCE		31.6
9/24/1985		1				28			2
11/25/1985	特別等的資料	经验的				1.6	在一个人	位。如此	1.2
3/27/1986					84				
5/15/1986	信息。这些		原和的程度	學是學習的問	的理解的	於自然性質的	6	對兩個的作	第 54年第
6/30/1986					35			114	
9/15/1986						135			149
11/24/1986				NAME OF TAXABLE PARTY.		Service Management Service	83		
1/3/1987	医院制建制性例	A SECTION AND A		MEAN PARCIN	MATERIAL PROPERTY.	DAC VORUS	世 4 6 9 4 5		District Control
3/23/1987	THE MINISTER OF THE		2	COMPRISON AND ADDRESS OF THE PARTY OF THE PA	12		5		©9000000000000000000000000000000000000
5/5/1987 6/13/1987				SHEET STATE	2		美国经验	東京記念なるない着り付け	NAME OF STREET
7/24/1987		NEW YORK OF THE PARTY OF THE PA	1	A STREET WATER	美国和国际的企		Marie Report State	4	SECULAR PLAN
9/2/1987	West Land		7	不 100 年 100 年 100 日	4	1	阿尔拉斯拉斯 斯斯	ALTERNATIVE ACCOUNTS	
10/30/1987	SETTING PROPERTY.	CONTRACTOR AND	9	AND SECTION OF THE PARTY OF THE	5.56	等。连其作品的	3. E/8 555	5	SVERT ZWEIGH
1/15/1991		Define the same and	CANADA CANADA	MANAGEMENT STREET,	0		MARINE STATE	· ·	HERYOPE TROOM
2/15/1991	The State of the S	集成的	公司的 医喉炎		AND AND SHAPE		Postud Vern	ESSENCE AND A SECOND	Value of the control
3/15/1991				Parties Car Continues and 1 &	The second second	SHOW THE REAL PROPERTY.		to the transmit of the state of	SCHOOL STATE
4/27/1991	(人) () () () ()	STATE OF THE STATE OF	14 4	65	位的第4数图图	THE WEST	を行うない。		3
5/15/1991							State and other transfers of the Table		A STATE OF THE PARTY OF THE PAR
6/24/1991			THE WAST MENTED	1 -45	4				2
7/15/1991									73
8/25/1991			の対象を表現			(2) (2) (2)	的學學		信息和概念定義
9/15/1991									8
11/4/1991		の記述を記述を記述	新成型与10周数型	12條標	置作4票额	能特殊的例识	。問題的問題的	588天世(6	3
12/15/1991		Addison to the control of the							
2/20/1996	权品(2011年)	以外,	是是是其他的		是是手位修理	Consultation of the second	的理學學院		沙龙亚 直线
4/29/1996				278 983				Communication and Management	
5/30/1996	面有一种的	就通过[2] 公司 [3	超過四個45	11月間	5		10000000	5	
6/30/1996	Maria Causa Sensalika.		3	Departure of the state of	orienta) - seneraliza-	ic was display-market	CONTRACTOR AND AND ASSESSED.	THE PERSON NAMED IN	
7/30/1996 8/31/1996	图的1985年2025年1月1日	TO THE PARTY OF TH	1000円の 日本の	6	2009年11日日	15年19年7月1日	Service States		2
9/20/1996		设施工业场上的	ELECTRICAL PROPERTY.			STATE OF THE PERSON NAMED IN	A SALL LOWER COURT	A SECURE TO SECURE	San San San
10/11/1996		Marchinester and receiving a	IN COLUMN ASSESSMENTS	III ASTACAMENTAL AND	1	OTHER RESIDENCE OF THE	A HONE OF PERSONS	A HEAVEN WHITE THE	3
4/7/1999	EU WAY SHOULD	国地域社会		5	STEED BACK	SHARWAY STATES		普 ·拉加·斯斯克斯	
5/31/1999		Committee and the state of			3	1	T KARANA I		THE RESERVE OF THE PARTY OF THE
6/30/1999	TOTAL PARTY	国交互流 经营		FIX PROPERTY	原務の対象を重要を加	**************************************			W 2002 3 C 12
7/29/1999					THE PERSON NAMED IN		Control of the Control	and the second second	the state of the s
8/29/1999	RECEIVED IN THE		A CONTRACTOR OF THE		3	加强等级	2 C C 3	3	0.000
9/16/1999									A STATE OF THE STA
9/27/1999	是新名和阿德	烈 医 100			3		3	3次第	

				SPENDED SO					
				impling Stati					
Collection Date	4-27-4 P6	4-27-4 P7	4-27-4 P8	4-27-4 P9	4-27-5 P1	4-27-5 P2	4-27-5 P3	4-27-5 P4	4-27-5 P5
1/21/1985	#32102011 A 2010			2.4	6.4				
3/25/1985	form that is a local to	是如何的自然		18	事为和7	1月25	Mark and the same	多是 / 图	10
5/27/1985	6	All the same of th		6	1.2				23.2
8/12/1985	AND EAST STREET	定的例如兩個		56.8	20		了世界是现代的	新加州	90.4
9/24/1985	ALTERNATION NAMED IN			1					8
11/25/1985	176000000000000000000000000000000000000	用於自己主义 是	114		Maria Maria	2000年1月1日		115	多也是是研究的
3/27/1986		PARTICIPATION AND PROPERTY.	THE REAL PROPERTY OF THE PARTY					3.2	
5/15/1986	《中国教授》中心	新聞館商品書		國國政治院 (1) (1)	Socret Marin	新田安全及新山田		是是個層的	对 信息用题。
6/30/1986		新沙林高海东海		127		105	72		
9/15/1986	A TOP TO THE PARTY OF THE PARTY	但中華的學習中	於國際的機能	149		215		ALSE (20)	现实就是四世
11/24/1986	32	Control of the Contro	160	distance of the latest state of the latest sta					
1/3/1987	Sales Assistanti	Siz 6	及自由政治的共享,但此	与强处的对抗区	(国) 图 4	经国际联络经		的研究医验验医验	
3/23/1987	AND COLUMN TO SECURE	DATE OF STREET	110		200				31
5/5/1987		15 T. 15 T. 15	THE PARTY OF THE P	是基礎的機構學		國際經濟學	是国际政策等	中心国的情况也	是智力的學問。
6/13/1987	MARKET STEEL STEEL	AND PROPERTY.	1	-	The second second second	Zantonia aliantia dalla			63
7/24/1987 9/2/1987		2000年1000	THE RESERVE		2014年的	经主张声影	是但是是國際的時間	THE PROPERTY.	经验的
10/30/1987		Control Statement Control	William Co.	46			d of age. In the sea to reside the sea		12
1/15/1991	The state of the s	Control of the Control	3	Control (Second	经回发到初回等	是10世纪中国6 500	2000年	和阿拉拉斯的	的問題所包含
2/15/1991	in colonia Mariano na ref	Automotive Contraction	of the second se	NORTH CONTRACT BY	Maria Managara da M				
3/15/1991	SERVICE SERVIC	A FRANCISCO	1800年100日 中央	始後期。原刊	建筑的地址是积极的	的基本的主义的基础的	海岸岛北西海南	新生活工作等美术的	是是写了图图
4/27/1991	DESCRIPTION OF THE PARTY OF THE	Data composition	March Artes Autor Torre	Selection of the last series	DRAFT 3 JUNE	Company of the last of the las	1000	A	NO. CO. CO. CO. CO. CO. CO. CO. CO. CO. C
5/15/1991	SERVICE STREET, STREET	A CONTRACTOR OF STREET	的特別的學學是	251	3				的影響的
6/24/1991	FEMALES IN COLUMN TO SERVICE	A DESCRIPTION OF THE PARTY OF T	September 200	4		STATE OF STREET AND ADDRESS.	建设在1000000		DOLLAR BANKS WITH BOOK ST
7/15/1991	International Section of	A DESCRIPTION OF THE PARTY OF T		SCHOOL STREET	ATTENDED TO A STREET		2007 0000000000000000000000000000000000		ALCOHOLD BY
8/25/1991	SAR	大心自己	STATE OF THE STATE OF		化分类的新加度		NEXT DEV	FASSING VICTORIA	生态 自己的
9/15/1991	200000000000000000000000000000000000000	Supplied Sept. or Self-res	利用を受けるという。 はまた		* (A.S. Pala Millary		950	THE PARTY OF THE P	是1000年日日1000
11/4/1991	STEEL STEEL CO.	(SEASOND PRO	BRAZE MESSON	4	7	SURCE SHOW	(BASSIAN SANSALAN	CONTRACTOR OF THE PARTY OF THE	在上海和约 里
12/15/1991		A STATE OF THE STA	THE PROPERTY OF A PARTY OF THE	THE PERSON NAMED IN	STATE OF STREET,	Para a 5	対象のいだとかまでも1937	SERVE SERVE SERVE	MORPH AND SEE
2/20/1996				3/2 - NAVE	Subject State of the last	NAME OF BRIDE	OFFICE VALUE	Carre disease	(Charles and Charles
4/29/1996								Account to the second	CONTRACTOR DESCRIPTION
5/30/1996	86	OF STREET	TO SERVE	CONTRACTOR OF THE PARTY.	为江湖11 等4.周	UNIVERSE (2.5.5)		A Company of the	ASSESSMENT OF THE PARTY OF THE
6/30/1996				C. C	A STATE OF THE PARTY OF THE PAR				de la companya de la
7/30/1996	· · · · · · · · · · · · · · · · · · ·	755 B	(是)是有其代於全国	93	9	発 200 200 200 200 200 200 200 200 200 20		独态 宝加 加热	我就可能会还然但
8/31/1996						Contract Surface For	10000		C O A STATE OF THE
9/20/1996	经过多种的	《答标文》	の場合の問題が	WAR STORY	地震发展与图 号	CONTRACTOR OF	ALE STREET	या व्याप	SANGLANDON AND AND AND AND AND AND AND AND AND AN
10/11/1996				1	7		The second second second		
4/7/1999	机器的运动的机器	外域 激素		以后来 (4)24		MANAGER S	(A)	(A) (A) (A) (A)	第 11550 第 500
5/31/1999					27		THE RESERVE		
6/30/1999	3 24 74	1490	9	100 A 100	3.0	对对对的证明		医 不足 医医炎	
7/29/1999	3	266	3		3				
8/29/1999	第一个部分的		14 A 12 S 16		建设3 图24	然和国际国际智慧的	SEAR NEW	TO SPECIAL VIEW	CONTRACTOR OF THE PARTY.
9/16/1999	3	39	3		26				
9/27/1999	50世纪1000		DE LA COMP	的工程 2000年	多是11 對線	STATE OF THE STATE	特别,一个公司		通信相談所

			TOTAL S	USPENDED SOLI	DS (mg/L)	* <u>+</u>	
				Sampling Station	S		
Collection Date	4-27-5 P6	4-27-5 P7	4-27-5 P8	4-27-5 P10	4-27-5 P11	4-27-5 P13	4-27-6 P1
1/21/1985							4.8
3/25/1985	部等等は海峡の	医艾斯克斯	74	多 如根据[10]	自由其他的基础	的成功的政治的	6
5/27/1985			28	2.532 19 212 19			21
8/12/1985	是古代的特別。因此	是非常知识的	28.8	以 为"对例》。第89	建制品类型	少年 3 时第 35	48.6
9/24/1985			6	-200			1
11/25/1985	是多数描述。	更然知识的知识	383	建 位金属指数器	the second of the		1
3/27/1986			83.6				1.6
5/15/1986	《香港》	412.23	三				6.0
6/30/1986	to the section of the Column and Administration (1995)	y + waren age of the same and	427				143
9/15/1986	COLUMN NEWSCOTT	经理算是是经	212	多的研究的 对指数		Chicken Co.	148
11/24/1986							4
1/3/1987	是於其物質的可以可以	CONTRACTOR SE	2000年 1000年		Manager 196	3.1000000000000000000000000000000000000	4
3/23/1987	360	57	Account to a real of the later of				1
5/5/1987	经验的			相談的問題的思	1250年後海底2000		1
6/13/1987	302	NAME OF TAXABLE PARTY.		67	no Alexander and Alexander and Alexander		1
7/24/1987			是以是20日本的 Line	是是主义的对象。其		经内外收益的	2
9/2/1987	2	BANKET CONTRACTOR OF THE PARTY	WINDOWS CONTROL TO SERVICE AND ADDRESS OF THE PARTY OF TH	160		CONTRACTOR DESCRIPTION OF	2
10/30/1987	经外交产品在 了。直接的最后,			京"早的岭里胜3家	學所認為 5學是	作到以来的第三人称单数	30
1/15/1991	100	KIN.		COTA CONTRACTOR DESCRIPTION OF THE COLUMN	Commence of the Commence of th	N SPORTS	
2/15/1991 3/15/1991		Carolinates). PM	是有品质云色面的表现。		THE SHOP SHOW THE SAME	THE WORLD CONTROL OF	
4/27/1991			19	SINGS NO FROM A REAL PROPERTY.		258	10
5/15/1991	STATE AND AVERAGE		CAN SERVICE LOSSESSES	CONTRACTOR OF THE PARTY OF	组成为2000年2月1日在1日	AND SAME SOURCE	U
6/24/1991	医		THE MENT OF THE PERSON AS	CONTRACTOR AND THE		KIND STATE	STATES OF STATES
7/15/1991	Name of the Party	AND THE RESERVE OF THE PARTY OF	Appropriate the second of the	SPS STATE OF THE SPAN			the particular of the same of
8/25/1991	CANAL TELEPORT		\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$	经位置 医二甲基甲基甲基		COLUMN TO THE PARTY	8
9/15/1991	English and the Property of the Party of the	**************************************	Walter Company of the	THE RESIDENCE OF THE PARTY OF T	THE THE TANK THE PER NEW AND	CALLED ACTUAL MANAGEMENT	THE PERSON NAMED IN COLUMN
11/4/1991	全国教会和农村的	STATE OF THE STATE	7	PERSONAL PROPERTY.	一方里等的	198	15
12/15/1991					* Contain an analysis and a said		Control of the Contro
2/20/1996			全国的公司 10万百	新型性能型於1940時間	公司的 [1] [2] [2]	COLUMN TO THE REAL PROPERTY.	医 中的通
4/29/1996							
5/30/1996	学校的 是在1000年	《各意物》	23		(2012年) (1912年)	51	特計155 300000
6/30/1996					Ī		
7/30/1996			6	一种国际区域		53	西斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯
8/31/1996							5
9/20/1996			的建筑的一些等的	流網設置國際經濟			GOVERNMENT OF THE PARTY.
10/11/1996			1			5	5
4/7/1999	新型型型的					10000000000000000000000000000000000000	
5/31/1999							3
6/30/1999	distributed by the	福新 取回运	国国			阿斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	6
7/29/1999							3
8/29/1999	国和新疆外面 从长				展 多語 國	以外的自然的	4
9/16/1999							7
9/27/1999		计是一种			·	以可以 1981年 1985年	3

	TOTAL SUSPENDED SOLIDS (mg/L) Sampling Stations											
Collection Date	4-27-6 P2	4-27-6 P3	4-27-6 P4	4-27-7 P1	4-27-7 P2	4-27-7 P3	4-27-7 P4	4-27-7 P6	4-27-7 P7			
1/21/1985	11.2	1.6		1.6		1		1,2				
3/25/1985	58	图 10 图 10	阿斯尼加州东京	7 30 (B)	定制的表示 可能		SECURITION OF STREET	15 THE 8 STATES	思想的思想就可			
5/27/1985	2	4.8		1.6				1.4				
8/12/1985	48.2	14	RESERVED TO	12.2	是出现是他们的问题	" 公司"的"	AND THE RES	22.8				
9/24/1985	57	7		7				4				
11/25/1985	6.4	24	主张的一种形态的	2.8	是對於自然人因為	ALEM SHE DES	4	10 to	(分類) 新物质			
3/27/1986	2.8	3.2					8.4					
5/15/1986	2.8	5.2	被政治区外经济	2015年,1915年	學是可以是智慧的學		160110406	高型 医马克耳	阿斯斯斯			
6/30/1986		51	89	69				158				
9/15/1986	101		TAKE NO.	151	20世级的特殊特别	在新疆的	的技术和2000	162	PER STATE OF			
11/24/1986	7	7		1				10				
1/3/1987	國於。14個國際	2	告述在建設	加拿加斯斯		3個第三個個的	7萬歲至2000年		建设的			
3/23/1987	3	1		16				Lame transmission	17			
5/5/1987	2	5			造品性及类形式	2005年1000年100年	遊科學的經過	线视为逻辑技术验	多的数据的			
6/13/1987	1	2		1			5		5			
7/24/1987	3-23	中国的 1 1 1 1 1 1 1 1	4	此。把被計划過度		的說法是其實際	医三角型 角	经验性的信息				
9/2/1987	2		4	2					4			
10/30/1987	15	在對極級時期的	10	沙里斯4个里段	中国的第一个全国的	使用的	1.000 1000	部別國際性	建筑建筑			
1/15/1991	300000	Y										
2/15/1991	根据取得 随时代的基础	西海道的	经知识的结构的		が発生を表現る	医院公共的企业	組織認為情	物學的關鍵機	有自由的第三人			
3/15/1991												
4/27/1991	集器使6点的法	10	有的研究。		15 (SE)	理學是發表	"是这是地区别		经 国际实现的			
5/15/1991												
6/24/1991	是是一种	伊斯森的 机工型	位置 经营业	四次的影片在深刻	德學到我們們們	是於多數的學樣	月	國民政治 自動量	可能有机物。			
7/15/1991	ACTOR IN A STATE OF THE PARTY O											
8/25/1991	10	到此地数41周围部	1977年前1955年		. 2	200 运售390%	到他是不是	部。自由使用言語	的對於			
9/15/1991	CONTRACTOR AND ADMINISTRA	AND DESIGNATION OF THE PARTY OF	Marie Property and Labor.									
11/4/1991	题》(8)、广泛	64.0 A 9 B 1 4 5	成立のからの対応を対象	4	のはない。	中国的"中国"的"中国"的"中国"的"中国"的"中国"的"中国"的"中国"的"中	阿拉斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	8 8 8 9 9	では対象を			
12/15/1991	Service State Stat	Approximation with the control of th	E Block and the Artist Annual Control of the	DESCRIPTION OF THE PERSONS AND		Fundament out of substant	Tentral Military					
2/20/1996 4/29/1996	ASSESSED FOR STATE		有 产生的发表的现在分词	30年 日本日本		新疆市市大学工作的		- 此次於是特別	Service 1			
5/30/1996	學學是於4個學學	12	E CONTROL PARTY	VP2Nesserapping to the Sales	BACK TO SERVICE THE RESERVE THE SERVICE TH	TOTAL WINE CONTROL OF PLOUR	and the same of the same of					
6/30/1996	产业的工工中产业企业	學是學術學人才能與一個	10年到10年1月1日	10000000000000000000000000000000000000	Market Market		PRESENT MORE	相談《加斯的》	以及			
7/30/1996	240 4 Kar	在然的25%和	Pala stanting the in tenderal B of	3 205	of toxelston shalles	THE REPORT OF THE PARTY OF THE PARTY.	STATE OF THE PARTY	DESIGNATION OF STREET	STREET, STREET			
8/31/1996	5	3		は 担当 と	型 经营业基础	思想的概念证据		高等自然1325年				
9/20/1996	2000年,1900年,1900年	SERVICE MARKET	CHARLE STREET	ASSESSMENT OF THE PARTY OF THE	BOHRING SANGA STATE	(1) 1 电电力系统 10 mm 10	STREET,	und of the same				
10/11/1996	3	5	Care Boliffe	EARSERA	建 。1986年的现在数据	公司	11 TO 1 T		国际通过			
4/7/1999	ing of the second		PRINTERSON BURNINGS		MUMANISH E CA	Company of the control of	0.75.00 a. (1. a.m.)	B LINE AS A SA S	W. Rosellin & Co.			
5/31/1999	7	10	THE REAL PROPERTY AND THE PERSON NAMED IN	3				发 外的位置的现在分				
6/30/1999	10.0 214 200	13	ON THE REAL PROPERTY.	原加强等等	100 To 10	Constant division man		3 3 4	e leverage and the same of			
7/29/1999	9	12	ones production of the company of the		13	down and substitute of the sub	Committee Committee	3	THE REPORT OF THE PARTY.			
8/29/1999	ACCUMENTATION OF THE SECOND	13	A GO DEPARTURE	ART PROPERTY	3	NAMES OF TAXABLE PARTY OF TAXABLE PARTY.	2 (5)25 (5)25 (5)	I SCHOOL WATER	Harris St. V. Co.			
9/16/1999	10	7	AWA III AMA MARANA	3			3	3	THE PARTY			
9/27/1999	3 3	4600 46F 4 出售额少能	CALL STATE OF STATE OF	98 GUE 18	SECTION AND ADDRESS	Carl Control Swe	AND TO SECURE	A SHOWNER IN	Security of the			
	THE IT WAS A STATE OF THE STATE		the high parties with	CHEM SHEET STATE OF THE PARTY O	TO THE PARTY OF TH	British Colonia Coloni	PAINTER STORY	Purishing State of the	A TOTAL PLANTS			

		TOTAL S	USPENDED SOL	DS (mg/L)			
			Sampling Station				
Collection Date	4-27-7 P8	4-27-7 P9	4-27-7 P10	4-27-7 P11	4-27-7 P12	4-27-8 P1	4-27-8 P2
1/21/1985					46	1	1
3/25/1985	[][[][[][[][][[][][[][][][][][][][][][专门是公司,但是	POLE N	新聞機器與	96	9	7
5/27/1985					1.6	2	6.8
8/12/1985	2019年第二日在新山县	运用部分的	建制程制化工业企业			4.8	21.2
9/24/1985					23	8	6
11/25/1985		中部 。	TO BE TO THE STATE OF THE STATE	亚国主外沿州 南州		3.6	4.4
3/27/1986		53.2			23.2	1	1
5/15/1986	關鍵和技術。其中	经验证据的		EN BEINGHALL			
6/30/1986					137	151	191
9/15/1986	建 国加州市	會。與關係的學歷發	跨爾尼斯斯特		182	166	179
11/24/1986					10000	1	2
1/3/1987	多如如此於無關	杨鹏和亚川湖流	统起,是能够是否		の理論を		的影響學的
3/23/1987				95		1	2
5/5/1987	建物的运动 的位置	以上是为此的		新加州的市场	建造的形式等		
6/13/1987							1_1_
7/24/1987	To be a second		2000年1月1日		经	機區和黨都經濟	0.40
9/2/1987				17		2	4
10/30/1987			地加速和阿尔斯斯	生 防止性 研究	機變機能加速	理が表現が	6
1/15/1991							
2/15/1991			以起於了他隨時相互	AL US DE MANAGEMENT	是常是是是	高時代於原籍國	出榜。陈月被马鹿
3/15/1991							0 0 00.0
4/27/1991		Service Services			建设建设工程	心理4 编制	定。1840年
5/15/1991							
6/24/1991	是自然的思想			公民 经 机	1	建设的人的	建设的是
7/15/1991							
8/25/1991		国际区域	就是自己我们如此法	10年1年1日		位は国際の政権が	制制和政治
9/15/1991							
11/4/1991		第二,科学教育 选	PER ASSOCIATION		7	5.	民居4章
12/15/1991							
2/20/1996		學學的自然的是對於	等的和表数数据的 ISOURIN		の発力が発生され	是於江南縣	位在政府行政
4/29/1996							
5/30/1996	學的一個學	包括政策的	北部成为中央中央	是 自然 对话	医一种种 医		的证券的特性基
6/30/1996						1	2
7/30/1996	四次 中国 对	是是的上层的数据	的研究的自然是被约	8	數學的特別的	3	证明9000年
8/31/1996							
9/20/1996	Montana 12 18	经定款定额和部	数 阿		が言いははおきば		南接經濟問題
10/11/1996	6			6		1	1
4/7/1999	经排列记得对对方。所	多語語的語音		弹列等对称编		時也是如此	是是我们
5/31/1999			12	5		3	3
6/30/1999	约60054000	米市区的产业	は位置地が経緯的	影响和方面漫步		3	W 14 3
7/29/1999	3					3	3
8/29/1999	3 DEF	22	15	劉彦 医红色		3	3
9/16/1999							3
9/27/1999	建设作用36 国际	12	通過的對為	3		3	3

		TOTAL SI	JSPENDED SOL	IDS (mg/L)	
			Sampling Station		
Collection Date	4-27-8 P3	4-27-8 P4	4-27-8 P8	4-27-8 P11	4-27-9, BH53
1/21/1985		2			2
3/25/1985		8			
5/27/1985		5.2			2.4
8/12/1985	がはから	16.4			76:4
9/24/1985		5			1
11/25/1985	新华大学 企业	7.62		The Park Control	13.6
3/27/1986		2			25.2
5/15/1986	用整理图如图集	地河里的 斯斯			
6/30/1986	135				1132
9/15/1986	日本語 日本語 1982	138	事的后,他的表现象的。		717
11/24/1986		2			70
1/3/1987		The state of the s	是非自然的		
3/23/1987	1				9
5/5/1987		是的一位的色色	是是未到經	The second second	Management to the second
6/13/1987		1			4
7/24/1987	国经历是代表的	你們思想的的數	过是经验。但这种	中国的	20年 ,2019年2月1日
9/2/1987		2			1
10/30/1987	国 新经济经济	经 国际分析中国国际	44	沙州的一名。自然阿	16
1/15/1991	Commence and the second				
2/15/1991	Carrie of	AND 11 57 %		他位于 人的。如果我	
3/15/1991					
4/27/1991	10000000000000000000000000000000000000	4 4	温度	世	TENNERS BURNEY
5/15/1991					
6/24/1991	10年9日2世纪	医生性性小型		Section 18	
7/15/1991	O THE THE RESERVE AND A SHIP AND ASSESSED.		AND AND ADDRESS OF THE PARTY.		
8/25/1991	(1) 10 10 10 10 10 10 10 10 10 10 10 10 10	(有)(程)(程)(理)	自然区域 经股份		发展,但是一个人的
9/15/1991			Management and A. Landell and S.		
11/4/1991		1205 1E-4 (1205 N			现现为中 2 1000人们
12/15/1991	V - 17-17-18	y received a true	Contractor of the Contractor o		
2/20/1996 4/29/1996			对于1000年的	在社会的特別	
4/29/1996 5/30/1996	A CARLO DE	COT THE WAY WELL !	DATE SANDERS AND ASSESSED.	ALM A COLUMN TO A SECURIOR AND ADDRESS OF THE ADDRE	
6/30/1996		SM THE DIS NOTE		国际企工中间的	
7/30/1996		4	AND THE PROPERTY OF THE PARTY OF THE	Service of the production of the Co.	
8/31/1996	國家國際企業的政策。	新兴山(李秋) (宋公太郎) 於	国際を対する。	\$P\$40 二量10位,实际各位的	24
9/20/1996	100	Septimized the second		15've anne Ausanneskopartura	Committee that the same of the same
10/11/1996	THE PERSON NAMED IN	3		新华国际的	THE PLANTED BY
4/7/1999	AND SALES AND	STATE OF THE PARTY NAMED IN	P. Marine Cont.	THE STATE OF THE S	1250
5/31/1999	3	1 4 2 7 3 M	ALC: NAME OF	WALLES THE PROPERTY OF STREET	8
6/30/1999	3 TE	SOURCE NAME OF THE OWNER.	1000 0000 000000	Charles Const.	3
7/29/1999	3	And the second		Control of the Contro	5
8/29/1999	3			Sener Sale on the sener	3
9/16/1999	3	3	A STATE OF THE PARTY OF T		3
9/27/1999	330000	经 基本规模的	7 3 4 2	STATE SERVICE	3

Appendix H
Table of Total Zinc SNP Data

							тот	AL ZINC (r	ng/L)	326.5	22			- 1	
Collection Date	4-5	4-9	4-12	4-13	4-29	4-27-1 P1	Sar	npling Stat	ions	4-27-1 P5	4-27-1 P6	4-27-1 P7	4-27-1 P8	4-27-1 P9	4-27-1 P10
1/4/1985 1/11/1985	aprorting	.02		Carrier SAN					MINISTRUCTURE	Design Tolerania		Contract to the Contract of			
1/18/1985	.02				.02	接続的技			COL ES	国家国际					
1/21/1985 1/25/1985	學的	.02		创建 态		.005	国語 题			.005	200 初起		也等時間以外	.005	
2/1/1985	(a)	.02	態度	我回到	退海		建筑高温度	34 M	of the same of the	1980 G 1880	1980 加温	建	GENERAL SECTION	100 miles	
2/8/1985 2/15/1985	開始	.02	N. P. P. S. S. S.	59902005	.02		ALCONOMIC CONTROL OF		Ellin Bours Block	Carlo de Car	087			Para Property Commence	
2/22/1985	all merchanique	.02		died metallich		NAME OF TAXABLE PARTY.	Principal Supplemental Control	Company of the Company		拉斯·哈尔斯斯斯 斯斯·	STATE STATE CAS		Service Service		學出 - 建工造物
3/1/1985 3/8/1985		.02	25 miles	根益中等高	THE REAL PROPERTY.		直, 发生的			520	新疆第 200	色的工作		常遊位多越遊	
3/15/1985	04	.08			.04	列斯特别	影明遊遊戲家			1958度2016					包 图象形
3/22/1985 3/25/1985		.04	SANCE OF	金田祖		.005				.005		STOPPENS OF		.005	
3/29/1985	PERMITS.	.04	(m)												WINE THE R. P. LEWIS CO., LANSING, MICH.
4/5/1985 4/12/1985	.02	.04	(SAINS)	\$100 B	.02	The Ship	Catholica S		14 别源种区的。		经基础的		14.400	初的都是多	and the second
4/22/1985 4/26/1985	100	.08	企业 编				S. S. Hand	NAME OF STREET				蒙世界是	語が新聞	自测路	
5/3/1985		.02	建設			名数国人家	Many April 1	有多为202						新草原物	
5/10/1985 5/17/1985	.02	.02	0.00		.02		C4570 12 5 12 5	The second			NEW S			AMERICAN TO AND ADD	
5/24/1985		.02						WHAT SEE THE SEE				1 NA 1			
5/27/1985 5/31/1985		.10			THE PERSON	.005		国际国际		005				.005	STATE OF
6/7/1985		04	To Man	NE.				S. Carlotte		LE COMP		国际层 跨	Canen Bar	的表现是是	
6/14/1985 6/24/1985	.02	.02 .08			.02		自由原法整定	Hardward (V)			信息整理 君	14 th, 20 min		国 《是《公孙校识》	
6/28/1985 7/5/1985		.02	CAST BES	SOLV SITE	NAME OF THE OWNER, OWNE		I CONTON	Parket local por	V		Coloral to proper		and the second		
7/12/1985	.02	.02		1000年1月10日	.02		型除5%至近19	ALC: NO.	10年10年10日	对于1000年		A 10 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			这次515年5194
7/19/1985 7/26/1985	112.5	.04		持机直流	验此經	新建筑	Service of		为国际的			自然 例及 2008		(特色酶等数	
8/2/1985		04		33		的可能的影	D. A. B. B.	医 便盟				重 交到	(市)(東京)(全	后,自由的	西蒙蒙国
8/9/1985 8/12/1985		.02	Value of	4 4		.005	表示公共 型超速		海河 智慧 新	.005	TEMPORMUTE:	SAGRADADADA	以后进入 对西域以	.05	.015
8/16/1985	.02	.06	alexani.	Annual Mark	.02	number of the second			Character and Control			egitecology some			010
8/23/1985 8/30/1985		.06 .06				2000年的1000年至1		大学	3/105	e in garage		和世界化验	医 附加 医	2000年 1000年	四位 (1986)
9/13/1985 1	.02	.10	2 %	1/2/34	.02	100	[6] 影響		的一个位于			的秘密差别			MS S
9/20/1985	.02	02		of all	1100 P		面包的能		2,354.6	以 。 (2)					
9/24/1985 9/27/1985	25053	.02		E 7/25	6.275 E	.002	所使 \$25.4.00mm		Control of the said	.003		es: 15 300 as 45	Commission of the	.004	MERCHAN 2
10/7/1985		.04		Acres -	sir mary				CONTRACTOR MANAGES		*	(1) 不过时间 地名美国西			STALL ALE
10/11/1985 10/18/1985	-	.06	经历9	新提出	.02	22,000			国人的	是認定的認識	人们是有什么	不理想是	時的智能的	(1000年)	
10/25/1985 11/1/1985	337	.02	二四 (牌配	新	非 治疗				TO EXTENS					
11/8/1985		.06			(配置)	2000年					N. P. W.			F 522 3 50	
11/15/1985 11/22/1985	.02	.06	Debras		.02							e agin			
11/25/1985					ed transcr	.054	Line and long			HELD VANCED AND ME				.005	
11/29/1985 12/6/1985		.06	146	是關係	THE REAL PROPERTY.		建	地 在 以	AT ARMIN		100 AU	五0年 動			
12/13/1985	.02	.06	如北		.02	52 26	超越数 周			國語國	國國	E PE	1920 1930	7663 (95)	
12/20/1985 12/27/1985		.08		医 素		F3 (200						1 1/2		电报表示数数	
1/2/1986 1/6/1986		.02	斯德型	100		. W. Harris		UA-June 1			Carrie and a	1			
1/9/1986		.04	2001002					· · · · · · · · · · · · · · · · · · ·		Name (高)(新)					升。河流其外別傳收
1/16/1986 1/23/1986	.04	.02	45		.02	克斯夫 州海	interest to the second		經過學		STEEL STEEL		直接	的首都是	
1/30/1986		.06	世纪	ATEN	心學	的知识的		时制图					4. 元明在后		10 m
2/7/1986 2/13/1986	16	12		95 (422)	16								建设的结合门	(2) 公田(4) 为	SAM BOYDEN
			and the state of the last	The state of the s				and the second second	Control Control	or production of the second	THE PERSON NAMED IN	Cabatta toles	ALTER DESIGNATION OF	and the same of the same of	

								TAL ZINC (
Collection Date	4-5			4-13	4-29	4-27-1 P1		npling Stat 4-27-1 P3		4-27-1 P5	4-27-1 P6	4-27-1 P7	4-27-1 P8	4-27-1 P9	4-27-1 P10
2/20/1986 2/27/1986		.02			4	500		· (%	2 13 15				I SERVERS		
3/6/1986 3/13/1986	12	.10			14	3, 1		5	1	Name and Address of the Owner, where	1900				
3/20/1986	12	.20		A.	35198							tid. E			to inad Pri
3/27/1986 4/3/1986		.02		100			12 100	* 45			Born 1988				
4/10/1986 4/17/1986	.14	.02			.14										
4/24/1986	The second	.12	创新企				TO CO			为 对的数据					
5/1/1986 5/8/1986	的感染	.16				14.	, F 4	14 A		ense bas e	THE REAL PROPERTY.				11年6月
5/15/1986 5/23/1986	.10	.08			.12	The state of				2000年97日					
6/2/1986	and the same	.18	1	THE PERSON NAMED IN										TO POLICE THE BURNEY T	SCHOOL STATE SHOWS
6/5/1986 6/12/1986	.06	.08			.04	. ≠	100 000	** # T .	5.00 (S. 50 (S.					1	
6/19/1986 6/26/1986		.12								SALE DAY	950000				
6/30/1986	經歷	25.63	Mary No.	12.5		2/2/2	.005			IN A PANE		2-1-1-1	.018		
7/3/1986 7/10/1986	李	.16			r.							May Told		K P K	學的原理學
7/17/1986 7/24/1986	.10	.10			.08	20					. 17. 10 1 Sag		4 10		
7/31/1986 8/7/1986	ADDRESS OF THE PARTY OF THE PAR	.16	5 37.0V3	<i>i</i> - 1	Thursday and										
8/15/1986	.18				.14	2 2 6						(4-20 C)	7.1		
8/22/1986 8/28/1986	1	.20			ěÆ	30			\$ 1.00 A.	AND VENT		4-			
9/4/1986 9/11/1986		.16 .05	到高			商品等	2003	16 × 14 × 14	1 2.25		数据 与弱		\$ 1.50g	, tr = 1	a second
9/18/1986	.06	.05	100-		.06	E K	.013		1000 E				.032		047
9/25/1986 10/3/1986	0t.	.16	12					(NEW YORK AND			过 些,可以	(2) (2)	. 4 17 . 12	海治 医线束	
11/24/1986 12/15/1986	.02	i ir	.02		.14		.14	nei rein	(dis				.12		District Car
1/3/1987	.02	ARREST NO.	.04	AND SECURE ASSESSED.	.02	CONTRACTOR AND A		CONT. PARTIES		and the same of					MARKATOPA SERVICE
2/15/1987 3/23/1987	.02	9110	.02	(6) 201	.02	STRATE OF	.1						.04		.06
5/5/1987 6/13/1987	.06	遊劇	.02		.02	是	.02	SERVER S	Mark		1.0.7		.02	西斯科斯	.02
7/24/1987 9/2/1987	.02		.02			00	(A) (A)		H. M. H.			Part I		064 1546	The sale of
10/30/1987	.02	廳	.04	運 聖	.04	.02	0:04	Maria Sal	第一部	.04		R.	0.04	.04	0.04%
11/15/1987 12/15/1987	.02 -02*	100	.02		.02		Daily Response		ANNUAL LE		Trable III Call	2000年100日	40000000000000000000000000000000000000	五字张作业	
1/15/1991 2/15/1991	.12		.12		.08		EASON WATER	New New York				Part Assert			
3/15/1991	.08	Section 2	.02		.08		00						Carlotte State		Annual Process of the Party of
4/27/1991 5/15/1991	.12° .01		.04		.16		.02					.02		经济制性证明	Service Committee
6/24/1991 7/15/1991	.04	17	.02	.02	.02			No. 20 Sept 2	02				.04	经验证据的	NAME AND ADDRESS OF
8/25/1991 9/15/1991	,02	A	.08	.08	.02		22 (24) 2	经产品的证据	E SEED OF				建筑正 就	企图 图图	文学
11/4/1991 12/15/1991	.08		.02	.12	.08	.28				中国	.24				32
2/20/1996	.005		.005	70 °C	.005		· 四百		的》。在自	医放送机构 位			7		直翻到了
4/29/1996 5/30/1996	.005	અં	.005	022	.005	nest.			.039	\$100 S000	.005		£	STATE OF	066
6/30/1996 7/30/1996	.005		.005	.005	.005			Ballion Land	.035		45. 1		.017	THE PARTY	0:1
8/31/1996 9/20/1996	.005	200	.005	.005	.005	以 不可以					(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				
10/11/1996 4/7/1999	.005		.005	.005	.005	STREET, ST.	.008	Signature and the same of			.005		Maria de la Ma	Andrew Comments	.134
5/31/1999	.008		.005	.019	.005		.008	and a second		.009	120	HADDING VI	A, E, I	A SHEET OF	17年17次至4月11日
6/30/1999 7/29/1999	.005	總語	.005	.005	.005		.011	.005					.005	.008	
8/29/1999 9/16/1999	.005	Sin	.005	.005 .005	.005	MINTARY.	.006	.005	.009	.006	.012	.007	20世界第四	性的學系	的 概念等。在单位
9/27/1999	.005	Ŋ.			.005	是理能形式	W. S. S. P. Pag.		[图 整本]	.005	.005	.014	de la ser e		

					TAL ZINC (m				- //	***		
Collection Date	4-27-2 P1	4-27-2 P2	4-27-2 P3	4-27-2 P4	mpling Stati 4-27-2 P5	ons 4-27-2 P6	4-27-2 P7	4-27-2 P8	4-27-3 P1	4-27-3 P2	4-27-3 P3	4-27-3 P5
1/4/1985 1/11/1985					200			通 事政				(C)
1/18/1985 1/21/1985	.005	TO ALL SUPPLY	N 100 100 100 100 100 100 100 100 100 10		22.2 Service							Accordance in the
1/25/1985		新春 公司(1971年)		.005	是	.005			.005		I Program	
2/1/1985 2/8/1985			以政治學、重	ARREST TO								
2/15/1985		SAME SAME			(2.52) of	CAS BOOK	2 14		路域網	June 1	There is a second	
2/22/1985 3/1/1985		医 \$100 \$100 \$100						NAME OF	Herman	New Section		CONTRACTOR OF THE PARTY OF THE
3/8/1985 3/15/1985			(G					Manager Commence			altitude de la company de	
3/22/1985	SCHOOL STANS			建 2000年 2	*	17 18 11 1	· · · · · · · · · · · · · · · · · · ·	20		进入公司		可能的现在分词
3/25/1985 3/29/1985	.005	题 篇 题		.005	NO STORY	.005			.005	福斯 斯斯		
4/5/1985	Vie 90					A Company		基础的		1100	独立 网络	3016
4/12/1985 4/22/1985				S. 100 W.	PERSONAL PROPERTY.		West on the same	The same of the sa		6. 100 (4) (4)		
4/26/1985		Andrew Street	Median Signal and Co.									Service and the service of the
5/3/1985 5/10/1985		ET SW. TACO		经验帐如果					4.6			世 代學語
5/17/1985 5/24/1985	国报 公共公司总			2000年	网络产生工作				国外国现代	200		F1).
5/27/1985	.005		经 现象加	.005			.01	100	.005	20 10 10 10 10 10 10 10 10 10 10 10 10 10		
5/31/1985 6/7/1985	102 G 202 E		COLOR MARKET			ALIES REPORTS		LU (NO ACOMA 20)	S. Even Sale	Market Late A	ELS BANK HITER	
6/14/1985									Company and	STEEDINGS ENGINEERING		\$ Annaportory
6/24/1985 6/28/1985	の変数を対する。	\$ 福泰 (1) [2] 3		CONTRACTOR OF THE PARTY OF THE	A.2. 四時以此外45個(EXECUTE AND	经基础设置		机用TEXAS	是我是这个大型		經常因素語
7/5/1985 7/12/1985	西京 超音		经过来 加克	(TEXTER)	建设施金属的				2/9 E	世界政策		在外型规范
7/19/1985	设置			Contracti	公演型核状等 的					经 国际国		1000000
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7/31/1986 8/7/1986												
8/15/1986									BLAND IN THE SE			
8/22/1986 8/28/1986	阿斯斯特史 法公司								斯勒	Jary St.		是从另名於
9/4/1986 9/11/1986				\$				超過大學物態	2000年1月1日	建物品的		ON THE STREET
9/18/1986 9/25/1986	對於國際政策	37年的股北部		.005			.005				.005	
10/3/1986 11/24/1986		经 对于"公司"		t it	.10	是 一		.10	初號是經濟	.12		
12/15/1986 1/3/1987	(F-200)FB		Mary Co.	12 200	ENTEN AUT		成 成別	经工作的	经 有限的	1870年	可能进步 加速发	建 中型
2/15/1987					182						铁轮线的	是無当時
3/23/1987 5/5/1987	.06		.06	.04	ু না ৈ ,		100 Mar (100 Mar)			.16	46年,第二十二	GINERON.
6/13/1987 7/24/1987	.02		.02			.02				.02		
9/2/1987 10/30/1987	.04		.06	.04		0:02	0. 14. C.			0.2	.06	
11/15/1987 12/15/1987		A.c. 165	100 TH 100 TH		H Santisco							innontes and
1/15/1991 2/15/1991						The second of the second						
3/15/1991 4/27/1991	.06	.10	.06				0	252 C 200			MANAGEMENT CONTRACTOR	
5/15/1991	.04	08	.02				AMERICAN SERVICE			CONTROL DAY	SECTION 1	06
6/24/1991 7/15/1991	.09	WO	.42		MENTER		生的如果 17-4回电响	多数是公司的		SATISMEST STREET	四部0 卷四	多種子(): 超過數
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2/20/1996 4/29/1996	e sa si		F ₁	学是的证据			(25 KW6)			以到海岸之间		
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7/30/1996 8/31/1996	.022	.025	.045	2	经国际		605	\$ 10 miles	公司和 扩张		.20	021
9/20/1996 10/11/1996	.011	.018	.015	in educati			0.005		新教教育教育	经过期股份	.005	.026
4/7/1999 5/31/1999	Section 19			BLANDSON, DE	No.			TE CONTENT	新生 古田道	以 供表现第		.067
		美国工厂		四 東京	200	2023年至1	310001	.006	.05	.006		.035
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1/11/1985	医		CANADA		M. Eliza	a felicity		整額思数			CALE SHOW
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1/25/1985			Bootings meshapes	AND SECURE AND PARTY OF THE PARTY OF	THE RESERVE TO STATE OF THE PARTY OF T	STATE OF THE PARTY OF	STREET, STREET		and Application	7295 31 353 (800)	.008
2/1/1985 2/8/1985	源的影響用為	是全国和国	(四個)理論論	2572430	相關語為物	A STATE OF THE STA	经 使建筑额		2000	THE REAL PROPERTY.	创始的图象
2/15/1985	F TOE R	为是公司	建设的线 护			NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	公里對關係				
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3/25/1985 3/29/1985		統領線	英国教教	.005	CONTROL OF	流量等亞灣	.005	REASON RE		學的學樣。當	.005
4/5/1985	以 數是局質的	企识明 3582		建筑区 面		建筑外 教		THE REAL PROPERTY.			
4/12/1985 4/22/1985				AL RESIDENCE	NA THE RESERVE A	With Billing Day	12 20 10 10 10				THE PERSON NAMED IN
4/26/1985					es in antipopation			4	District Control of the Control of t	BOOK TO A COMMISSION	
5/3/1985 5/10/1985	And the second				不可以		这个		PARTY CONTRACTOR	所的關鍵性有	和 而这些 这些 也是
5/17/1985 5/24/1985		能够推翻				文 60-466	发生	[整 缀]	《福安》 《西沙古》	包里施西安的	SE VENTRAL SE
5/27/1985	D. RECEIVE		A COLD	_025	1 (S.)	2000 B 的电影	.055			DE LOS DE LA COMPANION DE LA C	.005
5/31/1985 6/7/1985			STREET, STATES	EXPANSION TO SERVE	A 4 to Fresh Automore	DESIGNATION OF THE		FEET BADAN			
6/14/1985		CONTRACT THE PORTOR	CAS CHILD EAR III	America de la companione de la companion	No. To Control of the			ANGE BEZZE	公司 医甲基甲基甲基甲基	の主義などには、大田子	關於接受物態的
6/24/1985 6/28/1985		多位性相互经验	机制格头槽	建筑公司	文	用。在 多三角的	が表別がある。				ALE ROOK
7/5/1985			illing for			SAT AT PAR	是非常能够	加入形型的			Maria Maria
7/12/1985 7/19/1985	表是 图8 基			MEG 90		制度發展上級		9.000 A. 100.00			建 加速差率等
7/26/1985 8/2/1985	学 医生态外数			ESTR ESTR	Well-bridge today						
8/9/1985	阿斯 加多维	MADICAL ROLLON				[4] [3] [4] [4]		MATERIAL STORY STORY	的 型基础学品为公司	A TO SHOW THE PARTY	经现在等级国际
8/12/1985 8/16/1985		计划的		.029			.005	THE STATE OF	数 新	对 中国 图 有	.005
8/23/1985						W-1884/88					全国是产业会
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9/13/1985	1 1 2 4 4 5 3 PM	ESTE BRANCE	Charles								The second
9/20/1985 9/24/1985	197"气氛	11 (S. 1849)		.002			.002		(3) (1) (1)	2 Bake William	.004
9/27/1985 10/7/1985	. 15	出版的研究处	原可恢复的	"孙家 "	A SHOW	25 图 3		在	ANS REPORTS	美国用超过能	b Pasid
10/11/1985			21/5/14/200								3662
10/18/1985 10/25/1985			(4) 自然被影		(1) 25 S S (1) 10 S						
11/1/1985									Berliner absention	AND PERSONAL PROPERTY.	A STATE OF THE STA
11/8/1985 11/15/1985	2000 社会国	Same Albert	市图2.图48	[[] [] []	SET MILE	26月1日1日日	THE STATE	NAME OF STREET	2000年1000年		AND THE
11/22/1985 11/25/1985		的海岸是的	048	學和其中國	100000	计划 设置	SERVICE SERVI		科學的問題		B29-3-13
11/29/1985			.016				.28	20/60 (20/6)			.005
12/6/1985 12/13/1985		Se Trade Ballet	2 500 500	E. Landa				eren ere			Tak Hall Strategy
12/20/1985								Control and Control of		March St. Commission	Control of the last of the last
12/27/1985 1/2/1986	10000000000000000000000000000000000000	特別的音樂	经制作的	* TAP	造物验验		au E	ET & EST		等 原则及 省	TO STATE OF
1/6/1986	都然能力	上回 产 (2)	Kara Me	· 有点句				M_整点。		27 Cart Con	
1/9/1986 1/16/1986	Name of			SECTION AND ADDRESS OF THE PERSON AND ADDRES	国 海北区		19229				
1/23/1986				NAME OF TAXABLE PARTY.	NAME OF TAXABLE PARTY.						
1/30/1986 2/7/1986						一种基本的	图 在特里的				经现代现代
2/13/1986			超起图	国展览图象	ea h		是自己的	第 《政治》			经 数目的

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2/20/1986 2/27/1986	海路 起致	京外直流通识台	a projects a		A saledar				建計學室 建		
3/6/1986 3/13/1986			A 25 42		Restaura (mateur		158 ± 6.314			ভা ত প্ৰতিক্ৰ	MATERIAL PARTIES
3/20/1986						NA DESTRU		STATE OF BUILDING	144 147 155	ESPECIAL SERVICE	
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5/15/1986 5/23/1986			可可要 此為長		THE PARTY OF THE P				67.0 17. 190		.005
6/2/1986	26 25 25 AV		2 4 4 5 1		ASSE MAN						6.
6/5/1986 6/12/1986	の対象を	新安全场的		国家的制度							
6/19/1986	製造機			- 148 · 15		多种。而是		THE REAL PROPERTY.	(%) 2/2/4 E/		
6/26/1986 6/30/1986	.013	.018		T_{i}			20				_007
7/3/1986 7/10/1986	Markovini.		N. Paper		制力能表验						
7/17/1986	Top of the same of				910-000			Maria de la companya		E-Marie Town	
7/24/1986 7/31/1986				SAFALISTS FORE	PRINCE SHEET, ST.	经 的现在分词				接上的报告了事件 等	がなった。
8/7/1986 8/15/1986	福建设施	含 等于1000	医中国的	是可能的		医				被國際政治域	
8/22/1986	性的影響的		學所學的	不到于 你	[] 题题	自然研究的	200	的地域特殊	國家和的政		
8/28/1986 9/4/1986	E. Mary Call				司和海道方面						131/8XX 27 (5)
9/11/1986 9/18/1986	14						.15				005
9/25/1986			Transfer Street Street							William St.	000
10/3/1986 11/24/1986		自政党级文化		a was a supplied to		(4) 产型 的人的图		75353		公共的名词 (1000)	.04
12/15/1986 1/3/1987	都經濟學的地	500多种的电影			组进设计划		等打造中和原		思想到可能	图则建设写了	.2
2/15/1987		(A) ME ED		24	北京的区		3				
3/23/1987 5/5/1987		是 新 图 图	法海拔通過	.04	.2	.12					.04
6/13/1987 7/24/1987	27 W			.02	.12	(A) (100 A) (A)		.02			.02
9/2/1987	E 255	Has Congression	an system with more	.02	.02	Not as become and before		.12			.04
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12/15/1987 1/15/1991		包含的	是打成學門得得			2000年	村的原地员	明治人所地 ()	STATE OF THE PARTY		自己的
2/15/1991 3/15/1991		國際所	Mary Constitution of the C				tic transfer			A Section	
4/27/1991		经	NEW PAR		ENTER SEAL	强制性区域	.10	PER SECURITY AND	S SYL	.24	08
		(1) (1) (1)	建筑				.02	2.5 931.4%	经营业的出版	.04	.04
7/15/1991 8/25/1991			SWA SEE	SENTONE !				经现代的基础的问题	MERCHANICAL	Box (Free Cont)	:08
9/15/1991 11/4/1991					+ 15, 24		20 - 1		医 加速 (新克斯斯)	.32	18
12/15/1991	Remontant	N 18 (50A)	Barrier Barrier	The state of		Contract Street				的研究和企业	
4/29/1996											
5/30/1996 6/30/1996	10000000000000000000000000000000000000		sula Sile		4474		.036	· Fig. 3		.024	66 (1) 13 (1)
7/30/1996 8/31/1996	言語をある音楽	物文学的现代的		26	all wall do	31 (3	.032			021	.038
9/20/1996 10/11/1996	の対象を				est, on the	(A) 1 5 7 5 7 1	.01			.005	原识等。
4/7/1999			65 65 18	724	I Tarre	(1) () (1)		3-7-1	7.5	.000	.015
0.00,,000	ANDRESS.		10 A F	1 8 M M M M M		(A) (A)	4.	You don't die	克·罗斯 斯	A 55.	.02 .023
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9/16/1999		S 2 0 150, 000 N	国和"外国" 和						in Tasi		.037

				то	TAL ZINC (II	1g/L)			36.5		1950	
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1/4/1985 1/11/1985			科斯拉特的2	未 型等排放员物	建筑设施的5分				Sect Season		100.500 (44)	STATE OF STA
1/18/1985 1/21/1985	.018	.005	STATE OF THE PARTY	.005				.005	Telegraphic State	SECRETARY ASSESSMENT	G-200 YEAR	
1/25/1985 2/1/1985	公司 1988年末	LRG Late 8.	C PARTER	7.4	505 S		D. A. W. Sales, Co.	AND SHIELDS	TARAC ADMINISTRA			
2/8/1985 2/15/1985	8/12/18/5	Contentable in			Mark Roll	STREET,				AND CONTRACTOR		
2/22/1985 3/1/1985		15 15 15 15 15 15 15 15 15 15 15 15 15 1	AND DECEMBER								Phylogeny and	
3/8/1985 3/15/1985			DESCRIPTION OF THE PROPERTY OF					AND DESCRIPTION		The state of the s		
3/22/1985 3/25/1985	.064	.01		.005				.005			CALLED AND AND AND AND AND AND AND AND AND AN	WATER STREET
3/29/1985 4/5/1985				ESTATISTICS STATES		A SOLINA		.005	AND SECTION AND ADDRESS.			BARKADARAGA
4/12/1985 4/22/1985	Enterprise and the			SPECIAL SPECIAL SPECIAL	PERSONAL SERVICE	Alberta Barria	SCHOOL CASE					4.3
4/26/1985 5/3/1985					USA BOOK PLANE							
5/10/1985	INCOME OF THE						AN HOLD					祖 经 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化 化
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5/31/1985	.025	.013	y in the second	.005			(1) (1) (1) (1)	.005	The same of			
6/7/1985 6/14/1985			Control of the Control	SARAMAN CARREST							在計劃的	1 25 多沙港 5
6/24/1985 6/28/1985						MATERIA SURFIE	SPREAD TO THE S	STEP STANK	展展的 0.99年間			2000000
7/5/1985 7/12/1985				NOTE OF BUILDING					31 PE 8		BLACK TO	it Salah 看出的
7/19/1985 7/26/1985			SALES SA						H 50 25			THE REAL PROPERTY.
8/2/1985 8/9/1985	PROPERTY OF STREET	and the second							19年1年8月2日	new services		動學學學所
8/12/1985 8/16/1985	.005	.005		.005	74 <u>(444</u> 58)		2000年	.005				
8/23/1985 8/30/1985						3.754 (1.15) (1.15)	1943年2月				NORTH TOTAL	
9/6/1985 9/13/1985								H SH				新
9/20/1985 9/24/1985	.038	.003		.004			100 (100)	.002	WEST SHARE		學學學	NA REWALLS
9/27/1985 10/7/1985			A STATE OF			55000000000000000000000000000000000000			A SAMESTER	A MOTOR ST	经市场 的混乱	
10/11/1985 10/18/1985						经营场局		展高级人种植	(INC. EMPLOY		SE VENE	是经验的
10/25/1985 11/1/1985						的对位是 在 经验		以 到各面的。数	2000年後	图 原星	发现大利亚特别	
11/8/1985 11/15/1985					學生學學學學	F. S. S.		作的"能"	r Nalai	部等值。他多	经原因性拒	
11/22/1985 11/25/1985	.017	.005		.005	activity as a boy		.005					
11/29/1985 12/6/1985					Versienskild			国际现象 (例		A STATE OF THE STA		
12/13/1985 12/20/1985			A) activities	数配的影響等	研测器的键	加州				随着的投资	Part Control	
12/27/1985 1/2/1986					E DEMAND							曾起始。 金書
1/6/1986 1/9/1986				自然从公司		Training States		學別的關係			高级型地球	E TENNES
1/16/1986 1/23/1986		PHOSPIE ST			即是印象	建筑性等		建 可达里的特别	D. P. Bridge			
2/7/1986		rekerah (si)		1922年1925年1979	and a		林海拔的		经 多型的元			
2/13/1986	建 及於 建 次 4		表现公共 [2]	類目製造物を	2000年10日		和1002年前	(1) (1) (1)	经		2000年	

TOTAL ZINC (mg/L)	1000000
Sampling Stations	4-27-7 P8
2/20/1986	
3/6/1986 3/13/1986	
3/20/1986	
3/27/1986 005 006 006 4/3/1986	32 24 224
4/10/1986 4/17/1986	· 随 · 直接的 (100)
4/24/1986 5/1/1986	
5/8/1986 5/15/1986 .024 .005	经营制的国际的支持 的现在分词
5/23/1986 6/2/1986	全對於 医内内皮肤线炎 化异次甲基酚
6/5/1986	在在中国15分配的数据的图
6/12/1986 6/19/1986 SALES AND	New SET CANODINATED
6/26/1986 6/30/1986 .021 .014 .005 .028	
7/3/1986 7/10/1986	
7/17/1986 7/24/1986	
7/31/1986 8/7/1986	
8/15/1986	
8/28/1986	
9/11/1986	
9/18/1986 1005 9/25/1986 1005	
10/3/1986	是以在於外域。由於中國
12/15/1986 1/3/1987 .18 .16	
2/15/1987 3/23/1987 .04 .04 .1 .04	
5/5/1987	行。
7/24/1987 .04 .02	
10/30/1987 0.04 0.04 0.02 0.04 0.04	
11/15/1987 12/15/1987	
1/15/1991 2/15/1991	
3/15/1991 4/27/1991 .08 .08	
	Market Allegarian spins start
7/15/1991 8/25/1991 .04 .04	(A)
9/15/1991 11/4/1991 12 12 16 20	
12/15/1991 2/20/1996	
4/29/1996 5/30/1996 .015 .028	
6/30/1996	
8/31/1996 .018 .011 9/20/1996	
10/11/1996 .008 .007 .009 .035	
5/31/1999 .018 .035 .009	.01
	.01
7/29/1999	.008 .02 .012

	<u> </u>	- 13.34		TAL ZINC (m					
Collection Date	4-27-7 P11	4-27-7 P12	Sa 4-27-8 P1	mpling Stati 4-27-8 P2	ons 4-27-8 P3	4-27-8 P4	4-27-8 P8	4-27-8 P11	4-27-9, BH53
1/4/1985									
1/11/1985 1/18/1985	地区	學學問題地							語的熱學與語言
1/21/1985	建	.022	.005	.01		.005	1408498	2000年	.005
1/25/1985	引起运搬 加速	No.	Treatment of the late.	COMPANY THE PARTY NAMED IN		OM CHAPTE TO A CONTROL OF			
2/1/1985 2/8/1985	通信服务 關係		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Production of	· · · · · · · · · · · · · · · · · · ·	(1) [1] [1]		是計劃物域的	THE PERSON NAMED AND PARTY.
2/15/1985	answing/a		BE SEN	語句類的	e (170 %)			但是要理解	是那些
2/22/1985 3/1/1985	es esternal und a	Principal Control	PERMISH STATES		NAME OF THE OWNER.	建物 基基 数 层	CHICAR MINERAL	(2) American Company	
3/8/1985	STATE OF THE PARTY	AND STREET, ST	新新的公司的	DO CONTRACTOR CONTRACTOR				18	Transfer Libertage
3/15/1985	問題的後	が対象を表	是自然是明显的	2000年		Extraction	1 1/2		外用数据的第三人
3/22/1985 3/25/1985	SEED SHIPS	012	.005	.005	THE RESIDEN	.005			Act described her
3/29/1985	Tomas de la company				ecospic-turil(02)	.000			THE WORLD STREET
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6/14/1985 6/24/1985			SCHOOL SERVICE	SEATON CONTRACTOR		ALIVANIA ISSUES	(c) (文章 物)	A and a company	60 THE PERSON NAMED IN COLUMN TO SERVICE AND SERVICE A
6/28/1985	ACCOUNT OF STREET		NAME OF TAXABLE PARTY O	AND THE COMMENTS THE	ISA VALIDATA BARBARA		POWER PROPERTY.	A THE STREET OF STREET	CONTRACTOR OF THE PERSON NAMED IN COLUMN TO
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Appendix I

Table of Total Copper SNP Data

			**			AL COPPER				4		
Collection Date	4-5	4-9	4-12	4-13	Sa 4-29	mpling Stati 4-27-1 P1		4 27 4 02	4.07.4.04	4 07 4 05		
1/4/1985	4-5	.2	4-12	4-13	4-29	4-27-1 P1	4-27-1 P2	4-27-1 P3	4-27-1 P4	4-27-1 P5	4-27-1 P6	4-27-1 P7
1/11/1985		.06		W. E.	j.			建	2 K-71 Sq.		King the Age	
1/18/1985	.02	.02		CANTERIO	.02							
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	202	.08	100	語音動	.02			新教教 · · · · · · · · · · · · · · · · · ·	沙沙沙的建		認實心脈	
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3/29/1985	1052	.02	THE PERSON NAMED IN	1000		.004		(中国) (新華報報	司司至公司首都	.00		
4/5/1985	Minor.	.02	No. of the last		的節節	学 《诗歌诗》	建新数 00年	CONTRACTOR NO.				10000000000000000000000000000000000000
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5/10/1985		.02					Control of the Contro	The state of the s		NAME OF TAXABLE PARTY.	Commence of the Commence of th	NATIONAL PROPERTY AND ADDRESS OF THE PERSON
5/17/1985	.02	.06	机构型		.02	から関係が	學是是一個	的學學家	主题的压缩	《福安、唐史	医型型	
5/24/1985 5/27/1985	報告が行	.04	19 15/4		at mid. As	.001	Seriam Page		MANAGES	Charles Co. C. C. Colonia		A THE PARTY SHE IS NOT THE
5/31/1985	Section Section	.08	III. BETT THE	A. C.		.001	STANCES ALL CONTRACT				Charles and the	一、四、西、西、西、西、西、西、西、西、西、西、西、西、西、西、西、西、西、西、
6/7/1985	整化的	14	THE REAL PROPERTY.	建筑	製造物	自和 的地名约	学をより1章		100 是 200 是			
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1/30/1986	· ·	.02	国	4 計隆		No at 6		a de la lación de laci	THE REST			44.3种制度
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6/26/1986 6/30/1986		.04	茶 拉爾	ya ya	4.00	SERVICE VEN	.002	ATMINIST A	BS S S S		OFF TO MAKE THE	
7/3/1986		.02		THE REAL PROPERTY.		100				SANTE INCOME.		
7/10/1986 7/17/1986	.02	.02			.02		語為經濟語	经制度出	国際配	对于外域的	技術的關於是國	国际的 学和图
7/24/1986	製造物	.02			3 4		阿蒙迪的 简	網別發展		2000年1000年		
7/31/1986	500 St. (27)	.04	SOUR DESIGNATION		ELISTO SITUAL	The Is	12-20-10-COMMONDAY	Market Name of the last	Company of		DEPENDENT OF MARRIED	N. 3. N. 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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8/22/1986		.02		が発	i e							被影響的
8/28/1986 9/4/1986	92 7 1 2	.02		是一种的	A CARDINA				松	5.00 miles	a house a skin	
9/11/1986	M24CT400	.02	CONSTRUCTION OF	MONTHS AND REAL PROPERTY.	Q ILLIANS PARTY		Chief Call Control Control	ALEXANDER PROPERTY.		CO MINISTER AND AND		A STATE OF THE PARTY OF THE PAR
9/18/1986 9/25/1986	.024	.02	使用器 和	1	.02	200 图 200	001	美洲型的	BRADEN	334 [A		
10/3/1986	.02	.02	.02		.02	有意是 有 表现		经 的产生发生			海水 产(1975)	
11/24/1986	.02	Sheerson	.02		.06		.02	None de la constantina della c		Direct Address of the		E MONTH BELLEVIOR
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9/2/1987	.02	Sea Sea	.02	4	.02	.04		VI SUES		.02		建 加斯河西亚
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2/15/1991 3/15/1991	.02		.01		.04	NAMES AND ASSOCIATION	PAGE OF VIEW AND			CONTRACTOR		
4/27/1991	.05		.04		.05		.02			THE RESERVE OF THE PARTY OF THE		.02
5/15/1991 6/24/1991	.02		.02	.02	.02	可以通过	の変数の	TAC TERM	.02	经验的	2007 世级后	STEEL STEEL
7/15/1991	.02	New York	.02	.02	502	可能被各位	West of the		.02	运产油 加热	是一个	
8/25/1991 9/15/1991	.02	28	.02	.02	.02	BIANCE STA		Here allowed a room				
11/4/1991	.01	100 8000	.01	.02	.01	.04		L 1 C 1	与新州东京7周公内 30	经 的证据 (2) 经基本条件	.04	在 2000年代
12/15/1991	.04)	學學學	.04	多数	.04	医神经性		海风 经过	國國際總	地區計劃計劃	が開発機能	
2/20/1996 4/29/1996	.001		.001	金额的	.001	He was a said		STATE OF THE PARTY	.006		.001	
5/30/1996	.004		.007	.002	.002							
6/30/1996 7/30/1996	.001	学业等	.001	.001	.001	国 教员的自己的		一年新年 第2	.004	160人物源	经产资品的	
8/31/1996	姚01 5		E .018	.01	.01	的 经验的				13.16克里斯斯		
9/20/1996 10/11/1996	.001	SVEX P	.001 2.001	.001	.001	De la State de la	001	a Company	OCCUPANT OF THE PARTY OF THE PA			NAMES AND POST OF
4/7/1999	.001		.001		- VU 13	The state of the State of Stat	1001	SERVICE SPREEZES			and the same of th	to distribute sales
5/31/1999	,001	NAC.	.002	002	001		.001		地位不同時的發	是100年	on the cal	
6/30/1999 7/29/1999	.002		.001 2.003	.001	.002		.001	.002			1	边海 子物产为在
8/29/1999	.01	Green St.	.01	.01	.01	New Asimembros				.01	.01	.01
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1/4/1985	4-27-1 P8	4-27-1 P9	4-27-1 P10	4-27-2 P1	4-27-2 P2	4-27-2 P3	4-27-2 P4	4-27-2 P5	4-27-2 P6
1/11/1985	医	·····································	個國際	以					· · · · · · · · · · · · · · · · · · ·
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2/6/1985			Material Adjustic	Walter of the	HEALING BOTTON	A Section Care			
2/22/1985								OTHER PROPERTY.	PRODUCTION AND DESIGNATIONS
3/1/1985 3/8/1985		NAME OF THE OWNER, THE	於於新聞的光體的		THE PARTY OF	是以至为此种。			
3/15/1985	15年 日本		司的"主对婚						
3/22/1985 3/25/1985	in the second	.002	HEART SINES	.002		PANITONANIA	002		Marrie A A William
3/29/1985	米国际共和国的	.002	AND THE PARTY OF	.002	Market B. W. 1985	经产品的	UU2	SHOP BUT SHOP	.001
4/5/1985			100 A				(中国)	學的理解	(基) 解(图)
4/12/1985 4/22/1985		The English		医	然以来	Battis Soletson			
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5/3/1985 5/10/1985			語的為概念			A SAFARA	ALC: NO. OF THE PARTY OF THE PA	a displaying	
5/17/1985	B 182						2 80 2/60	Share Asak	277
5/24/1985 5/27/1985		.001	TO A BURNEY.	one	Ch Charles	- D			
5/31/1985	2000年1000年	100.	WAS TO VIEW	.005	PARCE PROPERTY.		002	AND THE PERSON NAMED IN	医乳管肠 [3]
6/7/1985	数据的规键	E 、使用限值的	建工物的多类	Project di	14 1,160,000	网络科拉尔	別語的觀		
6/14/1985 6/24/1985			NA 2004 AUG			等 200			STATE OF THE PARTY
6/28/1985	grante d'accession par Mari	CONTRACTOR OF HUMB		panjantany manana san		tradett	SHOODING BUILDING SAG	李里二地区 2000年	E III SAN AND SAN
7/5/1985 7/12/1985			A SECTION	SERVICE OF			(多名/多数)	ATTENDED BY	ALCOHOLD DESCRIPTION
7/19/1985			法的指数的特	是是計画組	Company of the	12.00	17.0		# 22 AV
7/26/1985		6-2-8-6-50-5-50-30-5	A SECTION DISCOURS			CONTRACTOR VANCAGE			
8/2/1985 8/9/1985		的推荐的自由	CHARLES AND A	THE STATE OF THE S	美国共和国			在於 是中國第	
8/12/1985	松乳燥 等	.001	.008	.002	美国英		.002	一種の	西 源 图
8/16/1985 8/23/1985	Carried and Art		和政治的			AND AND AND AND		901-300-44-7-50-9	STATUS EN
8/30/1985					The Property	STATE OF THE PARTY STATE	A SECTION OF	SHARKSTAND STREET	MANAGER STREET, ST
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9/20/1985		新	所以用2个格式	原基的主发		201	Bearing of	A STATE OF THE STA	
9/24/1985 9/27/1985	Water to the second	.001	British and a section of the section	.001	SE ALIGNAS		.001		prof Mills - Divis
10/7/1985		SE MAZONADIO DE LOS		Maria Maria Salta			OATE SOUTH		Editor Ed
10/11/1985 10/18/1985	國都可能經濟			一种	西外外的	(4)	使性 全性。2014		
10/25/1985		No. of the last section of		JEDINGS	NEW WINDS		A STANSON		建在 点与1916
11/1/1985 11/8/1985			SANSAN AND AND		例如此的	No. of the last of	57 FED 12		
11/15/1985		America, Xione Mar			E-company and the company of the com			Could the	ME MAKAGES
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11/29/1985	S. VIIII SAL	.002		.00Z	(2)对例2021年		.004	ENLOWING.	Deacosta
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12/20/1985			ARTHUR MERKEL	S SECTION OF THE SECTION	Res Control of the		STANSON		
12/27/1985 1/2/1986		BE MEDICAL PROPERTY.	185	国际企业 类	PARTY NO THE		然是此意为		企成为例约
1/6/1986	的安全性别								ALCONO.
1/9/1986 1/16/1986			Company of the same	ACIDI DOCUMENTO	To the same of				
1/23/1986		4304 (316)	ter Balan	Anna Carlotte de Carlotte de la Car	以明確學。		通歌 医配性感		ALTERNATION AND DESCRIPTION OF THE PARTY OF
1/30/1986 2/7/1986	经过程的			图形成型显示 。	建设和证明		不受到自己等 於	的人种类似的	企业
	C ZHA		高多大多约克	43.202					

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2/20/1986 2/27/1986	15 (15 (15 (15 (15 (15 (15 (15 (15 (15 (AN ARTHUR STATE STATE OF THE ST	Park State Communication of the Communication of th	MONE INCOME NO	AND STATE				Service and Control of the
3/6/1986	PRODUCTION OF THE O	KO TANTAN PERMINANTA			ASSESSED NO VALUE SHA		200,000	EMINE ANALOS	Application of the second
3/13/1986 3/20/1986		自然是一种	地際如為時	图 图 图 图			2 13 40 7		
3/27/1986	教育を必要	新加州		.006			TO SHARE IN	是经数数	那是的家里
4/3/1986 4/10/1986	新加州 新加州		MARKET NAME OF THE OWNER.		ENERGY AND A	Sales de la companya	ASSESSMENT OF THE PARTY OF THE	Asia A Mariana	Constitution and
4/17/1986	AND ASSESSMENT AND ASSESSMENT OF THE PARTY O	(A) C (E) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A			THE RESIDENT PROPERTY.		ATT IN COMPANY CONTRACT	Description of the last of the	对象性的证明
4/24/1986 5/1/1986	高级的人对外	PARTY NAMED IN	20.16 2000000000000000000000000000000000000	STATE OF THE PARTY		45%的	語學可與他語	新工作的	
5/8/1986		沙林體隊		包含作用于自	0.2733		A CHEST		THE STATE OF
5/15/1986 5/23/1986	MACHINE TO SE	0.504/65600	14. 从用的飞机		Section and the second	and the second		SANTALONING	
6/2/1986	EAST 118 148 15 11 / 1 FEB 118-	C WHOSE PROPERTY MANAGES	Constitution of the Consti	OTHER PROPERTY.	FURNISHED THE WASHING	SECTION NEWSFILM	ned le	DESCRIPTION OF STREET	
6/5/1986 6/12/1986	国	的经验和	通照是限配	東北陸地域	No. of the last of			大名 公本的	學是其一個
6/19/1986				到达到1960年5月		建设的现在分 型			
6/26/1986 6/30/1986	.002	(8.4)(2.50)(8.0)	TREAD TO	.007	NAMES AND POST OF THE PARTY.	Walter Constitution of the	.001	Territorio de mesconoli	din province de la
7/3/1986	.002	The state of the s	71 ST	.001	MASION MEDICAL	CONTRACTOR NAME	A STATE OF THE STATE OF		A HARD THE CONTRACTOR
7/10/1986 7/17/1986	1980) 34SE	1410 种子含化			No.	THE SECTION	7676765	可能性。 (1946)	BARRIER STREET
7/24/1986	阿尔	The second			1				
7/31/1986 8/7/1986		AMERICAN STATE	THE STATE OF THE STATE OF			Carried Con		Story and the	
8/15/1986		Management of the Control of the Con			(DE)//2048	Mercania Service Contract	termina grant part of p		VIA 2001 /VIA
8/22/1986 8/28/1986	別於 翻卷		A CANADA CANA		TERM PER	THE RESERVE AND			
9/4/1986		的杂传的					透的差換劑		R Miles
9/11/1986 9/18/1986	.006	Manager Sarde	.017	.003	ERIESTA IN MOR	Para Mahucasahi	.004	CALIFORNIA CALIFORNIA	.001
9/25/1986					4 34 404 14 11 15 34 14 24 15 3				- COAL
10/3/1986 11/24/1986	.04			.02			.02	A CHILDREN	.06
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1/3/1987 2/15/1987				SERIES STATE	PARKED.		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	多数社会和国际	SALTER SERVICE
3/23/1987	.02		.02						
4/15/1987 5/5/1987	以外还是从 不会是	可以在450 00	III CARLES OF THE		40000000000000000000000000000000000000				
6/13/1987	.02	語という。	.02	.02		STATE OF THE	.02		.02
7/24/1987 9/2/1987		.02	門門的社会學的	300 50 70 923	.02	A CONTRACTOR		.02	
10/30/1987			.02	.02		Management of the state of	.02		.02
11/15/1987 12/15/1987	Washing SAT	公司等於付款在省外 至		阿加尔 亚克克	医2.20 医乳腺素	SALEUSA	和特色學就是特別	經過學學透開	
1/15/1991			No de la constantina				对数据证 证		
2/15/1991 3/15/1991				Daniel Control				S S YS BAS	P 5020 图
4/27/1991			.04	.04			.02		
5/15/1991 6/24/1991	.02	際之間。同年初	自然的差別	.02		国的书法 第2500	.02		
7/15/1991			《西班牙》						1. 0.2
8/25/1991 9/15/1991	经 混合加速等								
11/4/1991		Artificación extractor	.12	.01		DECOMPOSITION OF THE PARTY OF T	.04	A ST CONTROL AND AND ADDRESS OF THE	A TANA TANA
12/15/1991 2/20/1996		担关的基金的	.022			MANAGE HEAD	《美华 二十年末》		
4/29/1996 5/30/1996	Charles and the second	がの場合があ	在計劃的結構開始	相名如何制	经 创造经验	到路路湖南	No. 24 Sept.		
6/30/1996		2008年10月1日	建工第一点 类	.005	1507250	² 03, ²	45.44	.002	
7/30/1996 8/31/1996	.001		.026	.002	merick allegate	Allegation and the second	.005		
9/20/1996	IVER VERSIES OF		BIOLOGICA STATE	の数なるで	PASSES DE	国际 中国发展。		出色等心图像	a ter
10/11/1996	网络多维	STATE OF THE STATE OF	.021	,008	四、李井 广西	多种人类	.032	建 整 在6 智 图	的阿德特
4/7/1999 5/31/1999			在,他的数 型		建物 公司和	建筑的	erre de me		and the last
6/30/1999	.002	000		.011	Name and Address of the Owner, where	no.	SOCIETY OF THE PARTY OF	.001	.001
7/29/1999 8/29/1999	.002	.002		.018 .016	PENCHANA	.001	.009	.01	.002
9/16/1999 9/27/1999		为Axish P	HARRING TO STATE OF THE PARTY O	.009	经营销的	種類的例如	.0051	的教徒的	.01
9/27/1999						.005		.01	

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Collection Date	4-27-2 P7	4-27-2 P8	5a 4-27-3 P1	mpling Stati 4-27-3 P2	ons 4-27-3 P3	4-27-3 P5	4-27-3 P6	4-27-3 P8	4-27-4 P1
1/4/1985									
1/11/1985 1/18/1985	A 3350 A	BURN DER T	作发生。特别	HE THE CLASS		10000000000000000000000000000000000000	437855000	1	
1/21/1985 1/25/1985	高温等	而到以是类似	.004		经温度 的事		SON SEE		
2/1/1985 2/8/1985		夏斯斯特洛		的暴力的	Bally Rib 到底				
2/15/1985	以 有各种的。	22) 增性系统	北京黄犀	建一层上		游别处3040			91975
2/22/1985 3/1/1985	Market Market State of the	ANGEN WELLS			Administration	for all and account of the	Side and a Marine D		
3/8/1985	ESSENTENCE AND	Will Will ST WHOSE	NA AND REAL PROPERTY.			的 经验的 1000年 1000			是是是在國際的
3/15/1985 3/22/1985		经产的发布证			第三年308年	新加州	Del Constitution		
3/25/1985	為書物學		.005				.002		
3/29/1985									
4/5/1985 4/12/1985	国际建立的营养				多种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种	公司经济的			
4/22/1985	60000000000000000000000000000000000000	多一概念的 。被			也是自由的政治	自由工作			100-201-000
4/26/1985 5/3/1985	电影感觉观察 由	WAS DESIGNATION OF	CARREST CONTRACTOR						
5/10/1985	and the second s	ACRES WHEN MEDICAL SE			21.10世代40年1月1日中央中心的			PARTICIPATION OF THE PARTICIPA	
5/17/1985 5/24/1985		(17) 200 300 400	(1)			海洋流流流			\$63% SEE
5/27/1985	.003		.004		は国際を通り			经 通常过深度	同 国企业。
5/31/1985 6/7/1985		在多大的 医 基 尼	457 TV 15			CHI LITERATURA		Section 1	A Discordance of the Control
6/14/1985	THE PERSON NAMED IN	国。 11日本の資金の大学科技術学		Marie Property Control	PROPERTY OF THE PARTY	Series and the series of	CLASSIC CONTRACTOR	の意味を含まる。	(1000 min 1000 min
6/24/1985			校理部里的		100年9月		能和時间但		加州和西部
6/28/1985 7/5/1985	SHEW TOWN		E WATER FOR	三 加州	医红发标的 。	Constitution			Mark Wall
7/12/1985		Pag 'amagusanasa' n	WATER CONTROL						
7/19/1985 7/26/1985						经营业的		(All the second of the	BEST CONTRACTOR
8/2/1985	國際國家國際			國語 版建	阿尔共公司	装制的 加坡			毛海 数据
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5/8/1986		學學是可能		建筑的	第2 265 大型工程	阿斯尔隆欧	的人的	學是是那麼一	
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9/11/1986 9/18/1986		SSIE GOVE	.005	17、据《					表 产 的复数图
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2/15/1987 3/23/1987			.02	.02	Marin Agenta	Berni	.02	area sur surres	.02
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1/11/1985		SE S	all Blocks		SAME THE SAME OF T		的是不是		
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2/22/1985 3/1/1985			Earlie Service of Artificial Lands		War State St	Para International Control	91/0-2-min 194/40		
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3/29/1985			WANTED STORY THE		- Company of the State of the S		AND DESCRIPTION OF THE PARTY OF	TANKE TO LESS SE	Carried Co. IT Chief
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5/10/1985	素を行うというとは	CONTROL SERVICE	2000 Bank		が記述が正常を記述	A STATE OF THE PARTY OF THE PAR	新华 新华	· .	1 3 80
5/17/1985		是影響學院		GRANDE WATER	為國際國際				
5/24/1985 5/27/1985	MAN TO A SECOND	.009			.001	经制度的运车		.002	2001
5/31/1985						HEAT CONTRACTOR OF THE PARTY OF	FOREST STREET,	2002	Parallicon Parallica
6/7/1985 6/14/1985	拉姆的神 鱼		1100	的推进的	数学 的数据集	相称哲學部	別將原		
6/24/1985	的 超级性超级			性就能與對於	网生的经过		No. of Concession, Name of	是是是公司	
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8/9/1985									
8/12/1985 8/16/1985	,006	ECHANG.	18年18日本村	.001	国政治的			.001	.001
8/23/1985	第17月		经 基础	No. 1 Carried			是一种有效		
8/30/1985 9/6/1985		E DANS THE	any and a second	White Bush spuns			Kill of States of the	72,400	
9/13/1985	No. of London Street,			2 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	Part Was All S	生物質性的反应性		CANADA CONTRACTOR	
9/20/1985 9/24/1985	.025	是多数	德烈品的数名	4. 计数据	機器可能				经特殊等等
9/27/1985	.028	是 的现在分词	国际公司	.001	ALIGN R. M.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	NATURE STATE	.001	Carlo Santa
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11/8/1985		医放弃 医侧连	2. 经基金银币	学(30) 智道。		NO MODE	五世纪章章		
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11/25/1985	.004		Select Control of the Control	.003			.18	以公司的通信的关键的	Bridge Calley S. Let VI.
11/29/1985 12/6/1985		CANAL HEESE	1598年基金計	西海岸东南			美国共享	Hand have	
12/13/1985		\$100 FF (12)	WASHING.				沙克库斯坦 (20)	March 1988	加松。
12/20/1985 12/27/1985	的原理包含如果	SKON SLELKY	新 克尔·斯克·科尔			(Mean test		u anytembara	E STATE OF LINE AND ADDRESS.
1/2/1986					The second second			THE REAL PROPERTY.	No. of Street,
1/6/1986 1/9/1986	1993年的#251		E (S)		Control of the Contro			以 海洋 《克	国际
1/16/1986	必能認動物質			2010年4月19月	知识的特殊		126-126-1204	je5, 17337€.	是心脉 空域
1/23/1986 1/30/1986	10.25 (10.25)		1 (82 THE O				也是 () a m () 本 ()		A GOLDEN
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2/20/1986 2/27/1986						13 4 5 VE	Samuel B	(4) 著藝術	
3/6/1986	lend discould result to		Name of Street Inch	recognition for beauti	STATE OF THE STATE OF THE		A100778 (100708)	and the state of the state of the	duting a service
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4/10/1986		经营业				Me To Market S			
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6/12/1986			See that Courage Market						
6/19/1986 6/26/1986	美國人民共產人中共國	经营销等价值		and Andrew Ellipse			加州中央	2 September 1985	经 按区据 (基础)
6/30/1986	建筑 加入3		.002	MAN THE STATE OF	进口证法)		至1月65月	.001	
7/3/1986 7/10/1986	MA SERVICE STATE	遊響為計准		Seminary.		30 7 7 7 1		Street Fig.	10000000000000000000000000000000000000
7/17/1986 7/24/1986			terabilisa dobrida a A			SET SERVICE			4.412
7/31/1986	SECURITY SAME			不是有其中的	SWEENSHING PURK		Els Districtioners		General Report
8/7/1986 8/15/1986	550世紀初後	是無法則	Research Land						
8/22/1986	BEE SEE	有是一类公司 的	数数型多样						
8/28/1986 9/4/1986		W. Society Com		On the second		SHOWN SHOWN		WEST OF THE	
9/11/1986					ALAU MENERAL	COLUMN TO STATE OF			EDITOR DE MESTE CONTRA
9/18/1986 9/25/1986	002	并是他的国家	医水肿 引用的	.002		5.7		.001	
10/3/1986	(1936 BAN)	50% 30% 30%	美術 國馬牌	的原理物理		CALLES TO		6.44 Tep 20	印 斯图 表现
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1/3/1987					Single Street Control	this consequences			
2/15/1987 3/23/1987	.02	THE STATE OF	和用的作品的作品等		E-SEES BY HARM	ALCOHOLD BY	.02		% 医影响
4/15/1987		THE WORLD		37年70年	的自然类型		图		0.455k935
5/5/1987 6/13/1987	图的图象 是		.02	阿拉斯 雷曼	PERSONAL PROPERTY.		.02	The State of	速管 编
7/24/1987 9/2/1987	.02			NEW WORKS OF	SEASON SANSONS		A DESCRIPTION OF	.02	
10/30/1987	.02	NAME OF TAXABLE PARTY.	.02	THE PERSON NAMED IN		STANCE OF STANCE	.02	.02	
11/15/1987 12/15/1987		PHARMA NA		光 间平成 13.	正的人员的情况			是是你是要能	
1/15/1991	在 对自己的	ACCUPACION A	医48万 科					10000000000000000000000000000000000000	15 July 10 20 1
2/15/1991 3/15/1991	100 mg 1 100 mg 100	art microsco	STREET, PROTECTION	CONCUMENTS.			100 CO		
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8/25/1991 9/15/1991	23000	356 53300	A A TOR	多是四次份 當	2.250.7208	53 30 11 50		CONTACT OF THE	
11/4/1991				.08				.04	.04
12/15/1991 2/20/1996	開發的但次學		.003		.004				.007
4/29/1996		管知及於其關係	美国产业的 研查	學的傳統的	CENTER OF THE				的现在是
5/30/1996 6/30/1996	美国农产品的			質が必要を発力			WALKEN !	公民495533	
7/30/1996				.004				.021	.007
8/31/1996 9/20/1996	新兴的民间外						图300 角图列 200		
10/11/1996	动 种。194 年			.001		機構開發	是經過其影	.001	.004
4/7/1999 5/31/1999	OF CORE (PI			建 面面积4.0	50% 事業必然	349623163			.03
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7/29/1999 8/29/1999	医 经现代 12	.01	.01	P. TORSE (基本)		.OA	002		.013
9/16/1999	建企业 在创作	.01	01	自然的表现的	.01	01	.01	4月18日安建设的设备	.01
9/27/1999		.01	.01						.01

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1/4/1985				4-21-51-5	4-27-31-0	4-21-3	4-27-31-0	4-27-31 10	4-27-37-11
1/11/1985	T Establish	用的外部的	是透過國際學	产和发表		持人的影响			图 25年 15
1/21/1985	福州约为强				- MANISA		160 Marie 17 50 F		
1/25/1985									
2/1/1985 2/8/1985	计算机器数据记	2000年	16 18 18 18 18 18 18 18 18 18 18 18 18 18	三年本的	经 总据 多度		上 特别,这个是有	经产生 光线	S421533 B/6
2/15/1985	675.20.55	A CONVENIENCE			心的病疾	70.5	可多种类型	是数學學學	Hamble Com
2/22/1985 3/1/1985		SVETTER BOOKS	Hall company to	an engraphic designation		A Problem Company			
3/8/1985	long and a same	CONTRACTOR OF STREET	44304094030000334	Least Stromologie (1938)					
3/15/1985		用被腹切除	學者的學	生素的性	使用处约	域的		建	
3/22/1985 3/25/1985	验 图的的意	(是对4)(通過)	在 2017年后	1001	ESCHOOL S	of the Williams	.001	建筑建筑	KSW-11KE-7h
3/29/1985		277 147 477				C INCHINE CONTRACTOR	The section of the se	MAY HELD STATE OF THE STATE OF	
4/5/1985 4/12/1985	(1) 网络	指领表现的主义	表面 (数)	网络管理管理	於為成物學		金额基本等	為於於原則	经验证的
4/22/1985	(2000年) 13.1	建筑的		MAN TO SERVICE	表示学者		CONTRACTOR SHAPE	Manual P	
4/26/1985 5/3/1985	managamento ana	67.0° x 70 x 10	(SATISTICAL PROPERTY)	West and the second	UNDER COR WATER CO.	SOUTH AND DESCRIPTION	SIGNA MARKANIA	alto alto alto alto alto	
5/10/1985	The State of the Party of the	等而是1000年1000年100	A. a.c. 1400 (400)			JEHNYEN ERRE	學出來性效為	46年以及4月	
5/17/1985		A SALES		14 6 40 1					
5/24/1985 5/27/1985	Service Service			.003	A STATE OF THE STA	A SECURITY LINES AND A SECURITY OF THE PARTY	.011	And and American	
5/31/1985	The second second			.000		THE RESERVE OF THE PERSON	STREET OF THE SALES		Section Industrial Section 1
6/7/1985		元型4数量 2			有点的。由我们		建筑 建	3年88年	
6/14/1985 6/24/1985		ESSE DES	Part at the first		BEAR PA	3 1000	2-17-14-16 (P/Mil)	200年12月1日 100年1	国内的 国际
6/28/1985									
7/5/1985 7/12/1985				52.60年7年1月		1966年1968年1	2040年		
7/19/1985		Locality					という。		
7/26/1985 8/2/1985		SECURIO SE SECUENTA	Service and Service		Water Springer	Date Comment	100 PH 2000 99	as to a Mariameter for some	
8/9/1985	SHAMPHONE DESCRIPTION DE	THE PROPERTY OF THE		STATISTICS SERVICE	PONE ALEXANDER SAIL			RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO ADDRESS OF THE PERSON NAMED IN COLUMN TO ADDRESS O	
8/12/1985	理學是是			.005	關於蘇聯教達	指導別數	.001	《国际的公司》	R. Andrews
8/16/1985 8/23/1985	NAME OF THE PERSON AS	10 W (14.5)		N MARKET AND		CARL STATE OF THE	新加州公司		
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9/6/1985 9/13/1985	14 图色图	2000年1000000000000000000000000000000000	发展的影响等	N. C. C. B.	DESCRIPTION OF THE PERSON OF T		PART TO		在正理 地區
9/20/1985		医结膜的			Marin R.				625/04/57/EM
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10/7/1985	a process as gave take.	gen and light and lyan		7316	BANDARY TROP TO THE	Print Street Contract			POSSIBLE DAVID DE LA COMP
10/11/1985 10/18/1985	2 2	高級部級特	是是是	機器的遊		OBSA CITY		SH WAS INVESTIGATED	国民国 国
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12/6/1985 12/13/1985	HELL QUA	MICE TO THE PAR		(A) 有点公司		CAR MINE WANT			SEASIBLE CONTRA
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Collection Date	4-27-5 P2	4-27-5 P3	Sa 4-27-5 P4	mpling Stati 4-27-5 P5	ons 4-27-5 P6	4-27-5 P7	4-27-5 P8	4-27-5 P10	4-27-5 P11
2/20/1986 2/27/1986					See Section 1	1100 NO. 1000 NO.			SARATIVE A ST
3/6/1986									NO. TO SERVICE AND ADDRESS OF THE PARTY.
3/13/1986 3/20/1986		The second second			STATE OF THE PARTY				
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6/5/1986 6/12/1986	相關的政策學		£1+ € **	A 14		化的外面		島位置相談	图图 图
6/19/1986		(2) 图			No. 25		第二十三		(5)。第1766
6/26/1986 6/30/1986	.004	.003					.033		
7/3/1986 7/10/1986		Section 1				16	NAME OF THE OWNER.	Name of the state	Fig. 78 St. Off
7/17/1986							《新闻》《李文字》	管局的政治管理。	
7/24/1986 7/31/1986		\$ 20.		14	是实验的				(1) · (1) · (1)
8/7/1986 8/15/1986	TANK AND	N. 19 25			- A 16 -				
8/22/1986		的位于 发生						型件是3000ml	
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9/11/1986 9/18/1986	036			STORES S			0.24	Internation while sonal	Contraction of the Addition
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12/15/1986 1/3/1987	对种类性等。	1	经验证	SE WELLING	新国际的	以 動態以間		(以自然) 3986	经 域的基础的
2/15/1987	测度 增强强			MET Tax	發展經濟的	透過以上 核		地方的	
3/23/1987 4/15/1987		P C		.02	.02	.02			6-1-1-200-20-2
5/5/1987 6/13/1987	No. 10 in the last of the			.02	.02		Today and Sales Sales	.02	National States
7/24/1987	高度和多数								
9/2/1987 10/30/1987	要被数率的			.02	.02		建	12	.02
11/15/1987 12/15/1987		7	第一个	医医验验					的思想對韓國
1/15/1991			, 31					Page Control No.	
2/15/1991 3/15/1991	列克姆斯 超温		, A						CONTRACTOR OF
4/27/1991						AND COMPANY OF THE PARK THE PA	.04		
5/15/1991 6/24/1991		F m (42)	5K91. 3	F THE THIRD	对分析 2000		.02		2.超0年5月前19月
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10/11/1996		医原乳的 套	李舒	line in the section			.001		为一位了新兴等
4/7/1999 5/31/1999	DESCRIPTION OF							March Street	
6/30/1999 7/29/1999									
8/29/1999									
9/16/1999 9/27/1999		经济的经验	是一个人的		建产证明 。他就		1 75.5		
4							M Samesania	Marie - 1/2	

TOTAL COPPER (mg/L) Sampling Stations											
Collection Date	4-27-5 P13	4-27-6 P1	4-27-6 P2	4-27-6 P3	4-27-6 P4	4-27-7 P1	4-27-7 P2	4-27-7 P3	4-27-7 P4		
1/4/1985 1/11/1985	SE STATE OF THE SECOND	第5 名為其中國	4/5/35 28	D-8-12-12-12-12-12-12-12-12-12-12-12-12-12-	1 2 4 1			201	A STATE OF THE SECOND		
1/18/1985	Manager and Property (NO.)	Bridging Stragge Bush	CHI MATERIA CONTRACTOR	Manual Designation Asset	All the second s	A PARTICIPATION OF THE PARTICI	2-14 VIII 11 2-16	a av factor	Descriptions of the		
1/21/1985		.001	.008	.001		.001	1	3	Party Service		
1/25/1985 2/1/1985	_1/-t	建筑机构 第	建筑的种种	MEAN COM		and the					
2/8/1985									Charles Grant May Cong. Cons.		
2/15/1985 2/22/1985			2.4000000000000000000000000000000000000		地址的建设				140		
3/1/1985				distribution.	SEE BEE						
3/8/1985	œ.	WINESON TO A 12-7	that the second	Rapid Co. Land				W7 2000 PM			
3/15/1985 3/22/1985			Section and Assessment		图1 法图44第	多类目的的 文字模点。4					
3/25/1985		.001	.015	.002		.001		20			
3/29/1985 4/5/1985			United States		MO-Z-YESVI	(Area Tellison)					
4/12/1985				- Tillian or management	A CONTRACTOR AND A STATE OF	ANTONIOS IN TENTO	Actual Services		A STREET, STRE		
4/22/1985 4/26/1985	即但此為其時	新加斯斯·波	经知识处理	美力的	行為影響影響						
5/3/1985					Section 1						
5/10/1985	and the contract of the contract of										
5/17/1985 5/24/1985	经验的 产业产品的企	層影話和學的	50000000000000000000000000000000000000	語的影響音至	34 45 6	Section 1					
5/27/1985	然和斯里斯	.001	.011	.002		.001	- 1 PED 9	7 × 7	ALL PROPERTY.		
5/31/1985			SE SECTION	DER STREET	MACHINE TOTAL		原型从一成型分		70 St. 70		
6/7/1985 6/14/1985	では、日本の大学の大学の			Balance Balance	ESEASON APPROX		, TE		######################################		
6/24/1985	医沙漠 斯 对中国的	新文献	图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图		建编设				St. 1		
6/28/1985 7/5/1985		ne de la company	Pelastin.		36 45 0395 4	经 交换为4000			Action of the Co.		
7/12/1985						The Desire Section	Market Steel Server		Perior Contract		
7/19/1985 7/26/1985	经证外军 (000000)	海流域的特別	10,000		認知的被貨幣	他的母奶	i lar		经定处性型		
8/2/1985		6 TATE 6 TA	是探討是語	经 国际企业化	12 02 12		4	State of the state	ALCOHOL:		
8/9/1985	DE VINE DE L'ÉLE SPRE	ENTER ON A PERSON	III. SANGER AND A MINISTRAL	Miles Cooking	Mark District County						
8/12/1985 8/16/1985	新社会学派(系统)	.003	.003	.003		.001					
8/23/1985		調整網門也			63143	學。因為不完全			Test show		
8/30/1985 9/6/1985			科文章 (大学)	SECTION AND ADDRESS.		1/2/19/2	GANG OF				
9/13/1985	Server with Court of the Server of the Serve	Eliza and Elizabeth Coloreda	STATE CONTRACTOR				terra ; e	E - E - E - E - E - E - E - E - E - E -	200		
9/20/1985 9/24/1985	學於當時因數	004	.065	004	是自然信仰	004		Service Se	かのはのの自然		
9/27/1985	MATERIAL DESIGNATION OF THE PARTY OF THE PAR	.001	.000	.001	对于发生的数据	.001	34 3 F 12 F				
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10/11/1985 10/18/1985	SECHOLESPANISH	Property Control (Control		CONSTRUCTION OF THE PARTY OF	多36. 概100 100 100 1			WINDS NO. 12			
10/25/1985	类的 III 的 的	例 型 數	而所数等	医型骨管 眼		有力等的		(A)			
11/1/1985 11/8/1985	新华州东西			of the late of the	BA1881	Paragraph and		5.45.254			
11/15/1985	Section of the		可表现的结果 201	A Control of the Cont	Military and one		nee war - when \$20 and	William Street Program			
11/22/1985 11/25/1985	阿拉斯斯里 尔斯亚亚亚	.001	.007	.002	图象外报	.003	A Company		.002		
11/29/1985		WATER THE THE	SAME THE REAL PROPERTY.	別的因為			1 3 12		2 7 Sign 2 2 2		
12/6/1985 12/13/1985		\$\$4.3美元等 0.3	· 连 对 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图		To the second second	ACCEPTED THE P	State of the	A PARTY DE			
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12/27/1985 1/2/1986	1000年100日 1000日 10		经 加强的	Wassery Atl		OTHER ASSESSMENT			THE WAY IN THE THE		
1/6/1986		海水 海水	est well	10-09-08-00	全性的		The same		27 TO 18		
1/9/1986 1/16/1986		AND LINE				市区的		SANGENCE.	は対象を対象		
1/23/1986		The second secon			THE RESERVE OF THE PERSON OF T						
1/30/1986 2/7/1986	阿爾伯里拉著	等型是储态。		OVACATE OF							
2/13/1986		area, had		by A see at	184250	is in the second	013/2/03/03/03/03	有效的效果的	多同。图 图 20 00		

TOTAL COPPER (mg/L)											
Collection Date	4-27-5 P13	4-27-6 P1	Sa 4-27-6 P2	mpling Statio	ons 4-27-6 P4	4-27-7 P1	4-27-7 P2	4-27-7 P3	4-27-7 P4		
2/20/1986			[17][[2][[2][[2][[2][[2][[2][[2][[2][[2][[
2/27/1986 3/6/1986		STATE OF THE STATE OF	Same Walled		Lead Cold All Has Crist V. S.						
3/13/1986 3/20/1986		國際經歷時	第288	達到計劃的					10000000000000000000000000000000000000		
3/27/1986		.001	.002	.001					.032		
4/3/1986 4/10/1986					3-47274		第 25年的表現				
4/17/1986 4/24/1986					ON THE SECOND		Sales Contract	图等的对象			
5/1/1986				Product of State States		DESCRIPTION OF THE PARTY OF THE					
5/8/1986 5/15/1986		.001	.021	.002	海北海上市。共产	AND MAKE MAKE	在提供的				
5/23/1986 6/2/1986	例(國際語言語)			物型起來							
6/5/1986		群。等新政	用题图图	$\mathcal{X}_{\mathcal{A}}$	SERVICE TO	2. 自发制制	AND UNIX	2012年12日			
6/12/1986 6/19/1986		18 12 6 sta	MARK! DESTRUCTION	建设金额					1. 7. 1.		
6/26/1986 6/30/1986	ta in the air. Storic	用性能数量用产生的	THE PARTY HAVE	.013	01	.003		or a fint of the second	E SPIES		
7/3/1986				010	RESIDENT AUTOMOS						
7/10/1986 7/17/1986	自然是由于	《国际公共 司》			SUI ASSETS AND	建 230号的	世界 建 地名	有力量的 [2]			
7/24/1986 7/31/1986	建设起到图						标准 ² 电路电				
8/7/1986		CHARLES TO			建筑和	的 是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		海洲区村路	超增多数		
8/15/1986 8/22/1986		E Walley		Control of the Control	(10) (10) (10) (10)	北京 海、李森斯 10		可是"公司"的 通问			
8/28/1986											
9/4/1986 9/11/1986	20年86年1	見るのではなり	語が記れる。		用一次的数型的数点的 (E)	THE REAL PROPERTY.	PARTITION		HOW SEL		
9/18/1986 9/25/1986	S.A. Seco.	.003	.007	2000年後後		.001		23年12月			
10/3/1986		10 E E E E		化 度 化基础	DESCRIPTION OF THE PARTY						
11/24/1986 12/15/1986	国数数据	.02	.02	.02		.02	经 直接 6.5	自然是正为			
1/3/1987 2/15/1987		.02	.02	.02	克尔松 子拉纳·特				, 24. d'		
3/23/1987	TO Decrease College	.02	.02	.02		.02					
4/15/1987 5/5/1987		.02	.02	.02	が開いた。						
6/13/1987 7/24/1987		.02	.02	.02	.02	.02	国际		.02		
9/2/1987		.02	.02	20年20日 高祖 18	.02	.02			罗勒风影響概		
10/30/1987 11/15/1987		.02	.02	E'	.02	.02	.02	.02			
12/15/1987 1/15/1991			CHARLES AND		SECTION SECTION	治疗积液 配液	BUMBER CONTRACT	WE WE SHAPE			
2/15/1991	and the same of					Strandistra Bank			TO PARTY DE CONTRACTOR		
3/15/1991 4/27/1991	.06	.08	.05	.04		e &	15、10、共市至	三克河区区			
5/15/1991	但是 自己對性				ef .		16/2	NE DAMES TO	V-VOV'E CO		
6/24/1991 7/15/1991	.02	.02	.02	.02		.02	数 经标准量据				
8/25/1991 9/15/1991		.02	.02	.02	25.2	and the same		Siran in Carlotte	作入 经 序度10含含变(
11/4/1991	.08	.04	.01	.04		.01	DESCRIPTION OF PARTY OF				
12/15/1991 2/20/1996	.004	.003	.006	.006	*			意を表示を認める。	大方面的		
4/29/1996 5/30/1996	NOW TO SERVE	是被判据的	经市场的	M=4/-5-24		和數學的	的思想的	的是有效型的	(基本)		
6/30/1996		多的學樣的		5.000 BOOK	6年,增强战	* 12	在 表现是形式		可能和政策。然		
7/30/1996 8/31/1996	.002	.003	.002	.002		.001	A TANK E	SECTION AND	2000年以2		
9/20/1996 10/11/1996	.001	002	.002	.002	A PART OF THE PART	.001	STATE CONTRACTOR		अस्तर क्यांत्र व्याप्त		
4/7/1999	.002										
5/31/1999 6/30/1999		.004	.004	.008		.001	はとはいい。				
7/29/1999 8/29/1999	建筑结构的	.008 .01	.007	.006	多种名称	FUNEAUNE	.003	國際經濟學	有關於國際		
9/16/1999	師。強肥。食業	g ₂₋₁₁ . 101	.01	.01		01	Hall the fi	NEW TOTAL STATE	.01		
9/27/1999		01	.01	.01					<u> </u>		

Sampling Stations	TOTAL COPPER (mg/L)										
Collection Date 4-27-7 P6 4-27-7 P7 4-27-7 P8 4-27-7 P9 4-27-7 P10 4-27-7 P11 4-27-	7 P12 4-27-8 P1										
1/4/1985	7 12 4-21-011										
1/11/1985	(中) A (1)										
1/18/1985 1/21/1985 .001	92 004										
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12/13/1985	的際間 特别 达里安										
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	(年) 图 8月 年 (10月)										

	355.8	20-2		L COPPER (14.50		
Collection Date	4-27-7 P6	4-27-7 P7	Sa 4-27-7 P8	mpling Station 4-27-7 P9	ons 4-27-7 P10	4-27-7 P11	4-27-7 P12	4-27-8 P1
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3/20/1986								
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4/10/1986 4/17/1986	学は多いと							
4/24/1986 5/1/1986		20世紀 1888		设内部 医内侧				的名字中
5/8/1986		64589	7 4 1 10			13/20/20		
5/15/1986 5/23/1986	拉卡 和达克克克					上安安和海岸等		
6/2/1986 6/5/1986				2000年1000	新加州			
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7/3/1986				新华为北方 斯里尔州(19				DUA
7/10/1986 7/17/1986				Nave Ben			1000年100日的	[20] 後的早期日
7/24/1986 7/31/1986				學是是是	自然的一些动物		向自然中国的	
8/7/1986 8/15/1986	形式加美地区的	12 AM	7.4					談。而這一直是
8/22/1986	海温沙 森				STATE OF STREET		17 16 18 1	uples of the last
8/28/1986 9/4/1986	ele, ferio				ા આ જ	建始而称形 型	Uniday X 新疆	DA CAR
9/11/1986 9/18/1986	,001	r 7 6	, at		医 原理 186 5	SAMONA	.004	002
9/25/1986 10/3/1986		FORMULAS I	e 7	gerill zaich				
11/24/1986 12/15/1986	.02		建造体系	Actor of the second			.8	.02
1/3/1987						And development of the second		
2/15/1987 3/23/1987		.02	3.8 10 00 00 10 00		2051432	.02		.02
4/15/1987 5/5/1987			(TARDES AND
6/13/1987 7/24/1987	A PAR B	.02		建	有一种的人	企业企业	1	
9/2/1987 10/30/1987	斯姆州南非	.02	的是数据	A SUPERIOR AND A SUPE		.02		着報源リー根部
11/15/1987	MIN TO STATE OF			常愿。杨戬	国 计 的 面	建加州	巴斯科斯斯斯	國際公司指示
12/15/1987 1/15/1991			\$1.00 m			EN THE LAND	Se property of	建筑是在
2/15/1991 3/15/1991		1. 1. 1. 1	PER DECEMBER	1000年,1000年				温度代明 四度
4/27/1991 5/15/1991							RESEARCH THEN	.06
6/24/1991	.02						.02	.02
7/15/1991 8/25/1991	1000年100日		Mark St.	经股份公司		THE STATE OF		是數學是習俗物
9/15/1991 11/4/1991	.01		K K W Y Y				.04	.01
12/15/1991 2/20/1996	Mark 27 (A)		· · · · · · · · · · · · · · · · · · ·		TO A STATE OF THE	.002	學學學學學	Part and D
4/29/1996 5/30/1996	是包含的证明	E Mint	A 1. D2 64	10年为11月	。	DIFFERSY DISC		
6/30/1996	6500				PER CANADA	200		.002
7/30/1996 8/31/1996	.001		原因的作业	14 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		.002	4	.001
9/20/1996 10/11/1996	10 7 15 14 F		#.c.001			.001	(40 Hz) 60 G (4)	001
4/7/1999 5/31/1999	VEC AND DESCRIPTION		AU CHAIL CHE		01	4 .002		00
6/30/1999	.001		.001	91		.002		.001
7/29/1999 8/29/1999	.002		.002	.02	.012	(.002 .01
9/16/1999 9/27/1999	.01	i a	.01	.009	of Others Table	.01		.01
			67A	8				

TOTAL COPPER (mg/L)											
Callantin But	4.07.0.00		mpling Stati								
Collection Date 1/4/1985	4-27-8 P2	4-27-8 P3	4-27-8 P4	4-27-8 P8	7-27-8 P11	4-27-9, BH53					
1/11/1985			PER MAN	军长部 型等	,他是一种的规则						
1/18/1985											
1/21/1985 1/25/1985	.004	後 財政制度	-002	医 经票额 基础		.002					
2/1/1985	THE STREET	W. Machine	THE RESERVE		SHEET BOOK OF						
2/8/1985	depote the medical action		Sea Local Control	THE SECTION OF THE PERSON	SEATOMETER STREET, SAN	CONTRACTOR MANAGEMENT STORY					
2/15/1985				當物情的核							
2/22/1985 3/1/1985	V 197	(B) (B) (B) (B) (B) (B)		THE RESERVE OF THE PARTY OF THE	phi and the latest an						
3/8/1985			NUMBER OF STREET	THE PARTY SERVICES THE PARTY OF							
3/15/1985	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"是我" 表现的	新花坊 0 生	是外的機能的		建设建筑企业					
3/22/1985			Charles of the Annual A								
3/25/1985 3/29/1985	.004		.001	是 100 Links	始也是是自然的	Turk to the					
4/5/1985	加拉斯里 维	自己等			and the same of	Maria de la companione de					
4/12/1985						ALL STREET, MICHAEL ST.					
4/22/1985	建設的語		的是於兩種原	(1) 经 [2]							
4/26/1985 5/3/1985	Secretary of the seal	Call College Sales	S DECEMBER OF THE PARTY.	20 2174 2023	una erszek verz						
5/10/1985	MEDICAL PROPERTY.	MILES OF THE PROPERTY.	BAIRS CONTRACTOR		10000000000000000000000000000000000000						
5/17/1985		,并经验 以加) 學 學 是 2	烈烈 图	5. P.						
5/24/1985											
5/27/1985 5/31/1985	01	10000000000000000000000000000000000000	.005	LANCE CO.		.001					
6/7/1985	17/10 PM 11/10				The state of	南國市於南洋大学和					
6/14/1985											
6/24/1985	ALC: NO	學。例如此時	7.0000040000000000000000000000000000000	的是两条	對於於關盟	图 超過 多					
6/28/1985 7/5/1985		海热 交 (新知识)	STREET, AND PRODUCTION	Sheer of the same of	STREET, SECOND 1948	San also time to the sale. Or					
7/12/1985		经的心态图图 /指文的地	经 算分割0.700000000000000000000000000000000000	(利力量の)が((多数を)	SAN SAN CASTRONIA DANS	阿尔斯科 宗然 500 E					
7/19/1985				976-E18-E08-							
7/26/1985	CONT. SERVICE AND A	CO TOTAL COMPANY AND ADDRESS			Principles of the processor and						
8/2/1985 8/9/1985	是思知性外域	经专业的经济的	Park (Richard	政治社会の対象は							
8/12/1985	.003	E E E	.001	STATE AND	2018年	.001					
8/16/1985											
8/23/1985	國際語作為	建 社会发生				學主要					
8/30/1985 9/6/1985				(1) 1.50 K 在 (1) 1.56	70 V 20 20 20 20 20 20 20 20 20 20 20 20 20	MV 2					
9/13/1985	Mary Control of the C	STEETING CASE STORY	The state of the s	从PHINGS NO PARTY TO NO.	回り当まれるに2次1 <u>時で2年</u> 25	THE RESERVE OF THE PARTY.					
9/20/1985	Who except the car	新疆的		t .	第二人,						
9/24/1985 9/27/1985	.004	THE COURSE WAY	.001	TORY A COUNTY		.001					
10/7/1985	AL 数据 三角型的 (60)	TANK BUT	THE RESERVE AND PROPERTY.		E-FIT THE WEST TO THE	ON DEPOSIT OF STREET					
10/11/1985	於同國際語》	全国企业	No. of Sections	注题,类别是 是其		第一种人员					
10/18/1985 10/25/1985											
11/1/1985	Name and Designation of the Park		NAME OF STREET OF STREET	1000 March 100 (40 100 100 100 100 100 100 100 100 100 1	NESSAL A RESIDENCE						
11/8/1985				数据是实现地	S4						
11/15/1985 11/22/1985					5 A						
11/25/1985	.01	A STATE OF S	.005	MEMORY CALASTAN	English was delight	.012					
11/29/1985		No. of Section 1	1 3 34		WAR NOT						
12/6/1985 12/13/1985	P. Sales and Sales	College College	AND AND SOURCE	discurrent as \$10							
12/13/1303											
12/27/1985	地		BANKE SATE		20 (1)						
1/2/1986 1/6/1986	(A) (A) (A)		MATERIAL PROPERTY.		Programme of the second						
1/9/1986	COMPANY DEPOSIT OF THE POSITION OF THE POSITIO					The second second					
1/16/1986	西约 斯里·西斯	这种感情	MONEY COM		国政会 ,多项	EL ESTOS					
1/23/1986 1/30/1986			T. 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	第 0年的《 张 明》		NA PROPERTY					
2/7/1986	WANTED VIEW				THE CHECK STATE OF THE STATE OF	5					
2/13/1986	建设的	国产资格的	以下,以外的	汉帝也是为正	建设						

		TOTA	AL COPPER	(mg/L)		70
0 " " "		Sa	mpling Stati	ons		
Collection Date 2/20/1986	4-27-8 P2	4-27-8 P3	4-27-8 P4	4-27-8 P8	7-27-8 P11	4-27-9. BH53
2/27/1986 3/6/1986	建	自國主政 要		感题是		
3/13/1986		general		s. %, 1.4 m		
3/20/1986 3/27/1986	.005		.058	de, S	- 5 ² 1	.012
4/3/1986 4/10/1986			S de la Maria dela Maria dela Maria dela Maria dela Maria de la Maria dela Ma	5.50	e grande de la companya de la compa	
4/17/1986		The state of the s	A PROCESSION OF THE			A STATE OF THE STA
4/24/1986 5/1/1986	高 出价的原	美国教育研究	经 在 经 化 数		t t	等[4] 表现的
5/8/1986	6. 学生发生		No. of the State o	经期间		
5/15/1986 5/23/1986	的是对多点	A SELECTION OF THE PERSON OF T	TOWN THE STATE OF	1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
6/2/1986 6/5/1986	Control of the Control		TANKA MANANANANANANANANANANANANANANANANANANA			
6/12/1986	医助促性	医生物的高温的植物中胚心				国国EXX 45 SP X55K(X50K)
6/19/1986 6/26/1986	四次 医水外线	医副科尼拉斯				多 為其中國語
6/30/1986	.016	.008	A SALES			° .11
7/3/1986 7/10/1986				er i		
7/17/1986 7/24/1986		ETHANDE 1835				
7/31/1986				N MALE N	Cherchines Environment	
8/7/1986 8/15/1986	一点是对此 这	是自己的政治	RELACED BLAZ		阿里尼亚州	
8/22/1986 8/28/1986					75.7	
9/4/1986				the Charles Harry		of I'm
9/11/1986 9/18/1986	.01		.01			.028
9/25/1986						
10/3/1986 11/24/1986	.02		.02	ুও স		.02
12/15/1986 1/3/1987	(2) (1) (2)		學的學術學	() ()	Jan .	and the
2/15/1987	10.97Ki (10.45 / 10.45)		N 11 77 1978	L. Payering		
3/23/1987 4/15/1987	.02	.02				.02
5/5/1987 6/13/1987	.02		.02	计 电流流		.02
7/24/1987				tile at		
9/2/1987 10/30/1987	.02	* 43 ×	.02	.02	0.02	.02
11/15/1987			图画到			
12/15/1987 1/15/1991						
2/15/1991 3/15/1991		美国际产业业产业股份	MINISTER AND CAUSE	Name of the Control	THE STATE OF THE S	
4/27/1991	.04		.04	· · · · · · · · · · · · · · · · · · ·	TATE BARBY BASAS	.04
5/15/1991 6/24/1991	.02	Park Line	.02	Cond.	THE SHARPING	.02
7/15/1991		(1) (1)	信款 建 线	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
8/25/1991 9/15/1991		*			NEW YORK	
11/4/1991 12/15/1991	.01		.01			.28
2/20/1996	Interpretation of the last of		5-5-5-1111-11200	STREET, STREET		
4/29/1996 5/30/1996				機但為研究所為即		· 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图
6/30/1996	.006	国际	.008		图 2.200	003
7/30/1996 8/31/1996	.001	2720	.001	医小孩的	2 9m/c - 3 NV	.003
9/20/1996 10/11/1996	.001		.003		FISCHER 2017	.001
4/7/1999						
5/31/1999 6/30/1999	.001	.001 .001		Accept Made and		.003
7/29/1999 8/29/1999	.002	.002			被责任建建	.002 .01
9/16/1999	€ ≥ % 01 €	.01	θ .01	对于10%	The Market	.01
9/27/1999	.01	.01				.01

Appendix J

Table of Oil and Grease SNP Data

Oll	AND GREASI	E (mall)	
	ampling Static		
Collection Date	4-9	4-12	4-13
1/4/1985	6		
1/11/1985	20 A 17 A		是認識的
1/18/1985	1		
1/25/1985	2	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	原金國際
2/1/1985	1		
2/8/1985	2	是 是 是 是 是 是	
2/15/1985	10		
2/22/1985	2	《被對於即為於	光地图图
3/1/1985	6		
3/8/1985	医40.15 产品		國際與經验
3/15/1985	3		
3/22/1985	包括影響 45 影图		
3/29/1985	5	CARCULATION OF THE PERSON	(SLEORICE TO CHINEW THE
4/5/1985	51	2000年1月	
4/12/1985 4/22/1985	5	AVVASOR BUT DESCRIPTION	STATE OF LICENSES
4/26/1985		2011日沙田県高温県	STATE OF THE PARTY
5/3/1985	2	SW Transmiss	
5/10/1985	4		THE PERSON NAMED IN
5/17/1985	3	F ALTHOUGH	A TOP TO A CONTROL
5/24/1985	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s
5/31/1985	SEPTEMBER 1		
6/7/1985	4		
6/14/1985	2	是常是从国	SE VENTO
6/24/1985	3		
6/28/1985	4		
7/5/1985	2		
7/12/1985	2		神经态度
7/26/1985	2		
8/2/1985	2	深 解 解 系	
8/9/1985	5		
8/16/1985			
8/23/1985	1		
8/30/1985	1		
9/6/1985	27	200	
9/13/1985	2	5.6.12 植料	
9/20/1985	1	Consensual distribution	
9/27/1985 10/7/1985	4	SAMPLE DES	
10/11/1985	2	200 2023 7200	NAME OF THE OWNER.
10/18/1985	MATTER STATES	CONTRACTOR AND	Many Property and Long St.
10/25/1985			
11/1/1985	International Action of the Control of		- The Paris of the
11/8/1985	2		a Transport of the
11/15/1985	1		
11/22/1985	78		
11/29/1985	8		
12/6/1985	8	等自己是是指於	9.72
12/13/1985	9		
12/20/1985	5	阿拉尼斯	
12/27/1985	7		
1/2/1986	6	A PROPERTY OF	建位的指挥2 分。
1/6/1986	4		
1/9/1986	21		
1/23/1986	13		Solida Martina, American State Anni
1/30/1986	8		1
2/7/1986	8	Selection and more parts of	
2/20/1986	21		Contract of

OIL AND GREASE (mg/L)										
	Sampling Static		i i							
Collection Date	4-9	4-12	4-13							
2/27/1986	10									
3/6/1986	3									
3/13/1986	1									
3/20/1986	8		原門建設建							
3/27/1986	26									
4/3/1986	26	是到的管理	阿姆斯斯尼克							
4/10/1986	7									
4/17/1986	3	經過量影	是据信息							
4/24/1986	9									
5/1/1986	23	超過過								
5/8/1986	44									
5/15/1986	11	的图1027年包含	Section in							
5/23/1986	11									
6/2/1986	2	在	南部区地区地区							
6/5/1986	2	CONTRACTOR CONTRACTOR	建筑本种 教授 国内化学							
	BARRIOTA CONTRACTOR CONTRACTOR		Maria Carlos							
6/12/1986	2	The state of the s	350 SHE							
6/19/1986	3	Marie Company								
6/26/1986	3	SHIP TO SELECT	是							
7/3/1986	7									
7/10/1986	2	并不是这些								
7/17/1986	1									
7/24/1986	1.2	海科斯尼 拉	表							
7/31/1986	1									
8/7/1986	3	建设工程	建筑地位对此							
8/15/1986	8									
8/22/1986	探视处 化温浓度	新新聞的								
8/28/1986	2									
9/4/1986	2									
9/11/1986	2									
9/25/1986	2	No. of the last of								
10/3/1986	4									
1/15/1991	Park To Manager	和	認定例 \$28							
2/15/1991		1								
3/15/1991		が記録を	德民民民民民民							
4/15/1991			Control of the second							
5/15/1991 6/15/1991	Market Company	1								
7/15/1991	SOLAR TOR		Table of the Park							
8/15/1991	The same of the sa	1	A STATE OF THE PARTY OF THE PAR							
9/15/1991		32.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
11/15/1991		1								
12/15/1991		多级数1级级和	THE RESERVE OF THE PERSON NAMED IN							
2/20/1996		5								
4/29/1996	新原始的	5 5	24位的原理的							
5/30/1996		181	5							
6/30/1996	60000000000000000000000000000000000000	多数5数点	5							
7/30/1996 8/31/1996		5	5							
9/20/1996		6	5							
10/11/1996	SEED OF LOTH	5	5							
4/7/1999		5	5							
5/31/1999		5.00	5							
6/30/1999		5	5							
7/29/1999	是统治。	5	5							
8/29/1999		5	5							
9/16/1999	CAPACT TO	1885/图题	5							
9/27/1999		5	5							

Appendix K
Table of pH SNP Data

							LAB pH				_	
Cally die C							ampling Stati					
Collection Date 1/4/1985	4-5	4-9 7.7	4-12	4-13	4-29	4-30 8.6	4-27-1 P1	4-27-1 P2	4-27-1 P3	4-27-1 P4	4-27-1 P5	4-27-1 P6
1/11/1985		7.4		建	100	9.1			THE PARTY NAMED IN	CATE IN ACT	TO SHEET AND A	
1/18/1985	7.5	7.4	Particular III and III		7.4	9.0						
1/21/1985 1/25/1985	程序	70		國際國	南河區	製製	9:00	27.16.79			7.65	
2/1/1985		7.3	經濟		NAMES OF THE PERSON OF THE PER	9.0	3571577	E Property			医 比较速度温度液	nation was
2/8/1985	SALT SALES	7.4		2.50004.255	N PROPERTY.	9.2	TO STATE HEAD IN COLUMN	ZESTORE, ESAS				NAME AND ADDRESS OF THE OWN
2/15/1985		7.7	是整理	學院是	7.2	8.8	學。例如	等海 经	The state of	Q! { - (<u>.</u>	H 1 12 12 12 12 12 12 12 12 12 12 12 12 1	學表示的
2/22/1985	Strange	7.6	F-20205-188	Series Series	VERNOUS	8.9	SKILESSON AND DOWN	CONTRACTOR DESIGNATION	torial in the little and			NUMBER OF THE PROPERTY OF THE PARTY
3/1/1985 3/8/1985	Full China	8.8	1600 Per		M. Carrie	9.2					Ch 2 E S	
3/15/1985	7581	7.6	是認識	機能	7.6	9.4	Sign and the		Sales and the			Jacob Jacob
3/22/1985		8.9				8.9				Personal surface surface		
3/25/1985		建設	可是同时	影響音	提到	PROPERTY.	8.15	[[4] [4] [4]		1, 1, 1, 5, 5,	7.40	
3/29/1985 4/5/1985	1000	7.9	A CONTRACTOR OF THE PARTY OF TH	Car Charles	SSUMMARIO	9.2	ENGLISHED STREET	NEW YORKS STATE OF	(2) A.M. (2) (3)			40 100 12 (9:10)
4/12/1985	8.1	9.6	A PROPERTY OF	MINNS A	7.8	9.4	PARTY HOUSE	SECRETARY OF				企业 处理是20
4/22/1985		9.4			紫網	9.7	2000年度	WASSESSE !		i. 8		
4/26/1985	essential in	8.1	University States	and the same of	Mark William	9.8						
5/3/1985 5/10/1985	1000	9.0 7.8		国家部署	有自己的	9.2			的數學	Car	HARLES AND	新型等 有型度
5/17/1985	7.8	8.0			7.9	9.1	A CONTRACTOR		14 Year 24			新選を 教 を紹丁の後年
5/24/1985		7.1	MADE NO SELECT	William Control of the		9.3	Care of the Care o		OF REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS N	ALTRICATE M. C. S.	Halifa III. Ale U. Ribert	CONTRACTOR ACTION AND ACTION AND ACTION AND ACTION AND ACTION ACT
5/27/1985	遊戲		建		的特征		10.55	10000000000000000000000000000000000000		(1)	7 85	
5/31/1985	tsalifació	7.7	20000000000000000000000000000000000000	Section 1991	MENAPOLI	9.9			Mark the Section			
6/7/1985 6/14/1985	8.3	7.6 7.8		A SECUL	7.9	9.4			18 18 18 18 18 18 18 18 18 18 18 18 18 1	. 0	图1000	
6/24/1985		8.3	通船			9.3			Evenin in the		ALL LANDS	
6/28/1985		7.7				9.6					AND THE CHARLES AND	- Security of the second of th
7/5/1985		9.6	THE R	No. of London	NO.	7.6		10000000000000000000000000000000000000				建设是
7/12/1985 7/19/1985	8.0	8.2	NEW WITH	4	8.2	9.5 9.5	SHE SHEET HAVE				THE TOTAL WITH	Assessment was a self-
7/15/1985	SEG-SES	7.8	PACE OWNER	BE ESTATE OF		9.5						在五個的關係的關係的
8/2/1985	THE REAL PROPERTY.	8.0	a Allahia	N BEEK		9.7		Example 1			A CONTRACT	CARL CONTRACT
8/9/1985	et comments	8.2	DAY MAKE	CONTRACTOR OF	an elwere	9.5						
8/12/1985 8/16/1985	8.2	7.5	No.	是建設	8.2	9.6	8.85			() () () () () ()	7.5	
8/23/1985	2012	7/4	经银油 [0.Z	9.5		The second	140 110 150	THE RESERVE	A Marianta	
8/30/1985		8.3				9.5	of Early State Control State Control		Month of the State	- Participation of the Partici	A NAME OF THE OWNER,	THE REAL PROPERTY.
9/6/1985		7.9		數數的是		9.5			图 製酒			阿拉拉斯
9/13/1985 9/20/1985	7.6	7.7	FOR STANK	MESO	7.6	9.5 9.5	Managarous and an		Colores Colores	Har extransis	120-146-1-126 AV 201	A Philips Subject of
9/24/1985	LOWER THE TAX	2 25.0		C.S. Section 1	SHEW EST	9.0	8.1	物系列的影響的	PEL PROCESSION		7.4	WHEN PROPERTY.
9/27/1985		\$7.4		200	南西岛	9.3		是是主要	经企业的		医医排泄的	
10/7/1985 10/11/1985	SMAU	7.8		50 Y F	100 mg	9.5	IF IN A SQUARED IN	Control of the				
10/18/1985	7.9	7.9	- maintain (1907)		7.8	9.7		ent to a first that the state of		Section & Ballings	AND THE PERSON OF THE PERSON O	GO PRATICION AND
10/25/1985 11/1/1985	[]	8.Q. 8.1				8.2 9.8	的自己的知识		A. W. Carlotte			新教教教
11/8/1985		i7.1	1888		ACC 2	10.1				E E		
11/15/1985	8.2	8.7			8.6	10.1					CONTRACTOR SHEET STREET	
11/22/1985 11/25/1985	Marin C	8.8	S ACTIONS		別以為於	9.9	8.08	(C)	23 新建设		型型 正統	建程"的影 带
11/29/1985	Q (C. 40)	8.1	建建	\$4.08	海道路	8.6	DEPOSITE DE	20 How TAX 15	9	or distribution		
12/6/1985 12/13/1985	27:7	9.3 8 .5	多次运作	196000000	7.7	9.7	(thousands)		* * * * *	7.1	The State of	
12/20/1985		9.2				9.1		person of the same of the same of	and a second		THE PART OF LAW	
12/27/1985 1/2/1986		8.9 10.0	1	PARTY.	以	10.5	SEPHENT THE				W. W. Land	
1/6/1986	Z-10-0	9.5			烈 震	10.3		11/02/8/2010				
1/9/1986	0.0	9.2	TO REAL PROPERTY.	連絡多報	000	9.9		NAMES AND PARTY.				The state of the s
1/16/1986 1/23/1986	8.3	9.0	(1) · 医红斑	THE SHADE	8.6	9.5		CONTROL OF THE PARTY OF THE PAR		100 THE 1888	2112112112	\$ 1 - B 44 4
1/30/1986		9.2	(Anti-			10.4	他們是是法	2000年10日	Q1 20	海 柳 明显 10	*	1 * 1 * 1
2/7/1986 2/13/1986	7.9	8:5	1 75	O'STAN	8.3	9.8		16 点类 15 发生	(***)		Control of the second	
	CENTER OF STREET	0,0	SPORT ALERS	A STATE OF THE PARTY OF	- V, V, III	U,U	Service Servic	CHARLES THE RESIDENCE OF THE PARTY OF THE PA	HAVE BEEN STREET			C. CARLES

					283		LAB pH	200			2000 (060	-20
							impling Stati					
Collection Date 2/20/1986	4-5	4-9 8.5	4-12	4-13	4-29	4-30 9.7	4-27-1 P1	4-27-1 P2	4-27-1 P3	4-27-1 P4	4-27-1 P5	4-27-1 P6
2/27/1986		8.3	精神	隐翻	品给酒	9.5		W. Dest. D	Barrier Att	建200%		
3/6/1986 3/13/1986	7.7	9.3	District Co.	S TOTAL D	9.8	9.6	IN THE PARTY					CONTRACTOR OF THE CONTRACTOR O
3/20/1986	Cool de Coor	9.2	The state of the	D-COMMENCE.	. U. U.	9.9					ACTION OF THE PARTY	
3/27/1986	SE IN	28:3	484	有的形态	数据指数	10.0	3/21/21/21		多数超级企业		阿州加州岛	在海南流
4/3/1986 4/10/1986		8.0 9.2.		光光的 流	侧别不适用	10.0	20 A S A 100 A S	The second		STREET, WITH THE	STORY BUTTER AT A	Maria de Maria de Caración de
4/17/1986	8.0	9.0			8.0	9.5				CONTRACTOR OF STREET		Street to the street seed at
4/24/1986 5/1/1986	學还	8.2	法關係	超级海		10.0	NY MARKE	国政治院基础	新疆经济级			
5/8/1986	Total's	7.2	William I	西州多港	E Min	9.6				A CONTRACTOR	高度保護	
5/15/1986	7.9	7.5			7.9	9.3						
5/23/1986 6/2/1986	(SE) 54	7.2 7.3	語語學	是是能够		West 1			SAME BY	自然 被沿向第	经验 30%	可是經過過過
6/5/1986	B	₹7.9		当社会	HOUSE OF		经是这里的	ALCO AND AND	HARRIAN A			
6/12/1986	7.8	8.3		manufactor/ had	7.9	45 500 600						A. D. Sant Colonial and Sant Sound
6/19/1986 6/26/1986	的問題的	7 <u>.7</u> 7	DOE:		TERM DE	BARBE.	3.663 图显显示	10年的10月10日10日	為政治國的資源	24 4 4		第二次
6/30/1986	美 。精		Name of	APRIL NO.	韓彩耀			6.3				
7/3/1986 7/10/1986	DECEMBER 1	7.1	Difference of	Stemple Car. No.	大男 語	ROECT-COLU	No. of the last of		Meanur Asia			
7/10/1986	8.7	7.0		20MIONNY	8.5	UNITED BY	3453600000		WHE CONTRACTOR OF THE	王加 / 年 / 日	1. S. C. S. C.	71.647.632.94
7/24/1986	1 1 1/2	-		DOM:	236							
7/31/1986 8/7/1986	以	7.6 7.4	238.3-32	CE ST.	X 目 G S	A.02			÷ి మె			> and regional freez (a)
8/15/1986	8.0	6.2		(SAMPLE)	7.9	a 10/13/15					William A. A. Spir	2 Hepselvonstatut
8/22/1986		6.5			進期認	で最高され				to all the	11 1	
8/28/1986 9/4/1986	计 标准	8.5 8.2	A Company								المراجع	
9/11/1986		10.4										STATE OF THE STATE
9/18/1986 9/25/1986	7.8	8,5	100 PM	海巴克	7.9	自然物理	製造製造	8.7	新工作的			
10/3/1986	10.1		9.6	2. 表面方面	10.1	The T		N. 4 750				
11/24/1986	8.4		8.4		8.3	Parameter a		8.2	8.3			
12/15/1986 1/3/1987	8.5 ¹ 7.9	AL SHAPE	8.5 8.1	中国的政	8.2 7.8	and representation		在2、419				
2/15/1987	8.2		8.3		7.7		.v.			6.0		经验证的
3/23/1987	8.1	PER PROPERTY.	8.0	COCOMPONENTS	7.7	Filtrage (19)	ASSESSED AND DESCRIPTION	7.4	a Day Same sure (72)	STATE STREET STATE		
4/15/1987 5/5/1987	7.8	A PARTY OF	£8.1 8.0		7.7							3.在2013年1月4日
6/13/1987	8.9	70	8.1	1	810			7.3		5	32 16 10	(* 55°) (* 5
7/24/1987 9/2/1987	7.7	30000	8.0 ~ 7.9	COLUMN TO	7.9	(Section	7.2			AZESSON TERMINAL	7.3	क्षा । क्षत्र १ _व
10/30/1987	7.4	1931314	7.9	C-Market Land	7.1			7.5		and all his course	7.3	SECTION AND ASSESSED.
11/15/1987	8.0	透图被	8.0	國籍	7.9	Carry			"te"		May (1-1)	**************************************
12/15/1987 1/15/1991	7.8	THE PERSONS	7.9		7.9 8	STRUMBERS			les areas	(A)		
2/15/1991	8.1	PROCESSION OF THE PERSON NAMED IN	8.1		8					THE REAL PROPERTY.		
3/15/1991	8.6	2	M814	日本日本	7.9	類塵灣	經濟統領	2000年			1.6 1	
4/27/1991 5/15/1991	8 79		8	E 449	7,6	de basis	经常业等政场	7.9		7.9	<i>j</i> #1	
6/24/1991	7.8		8.1	8.2	7.9		THE PROPERTY NAMED IN COLUMN 2	INTERNATION OF STREET		7.7		MCM-DIAL MATERIAL DATE OF
7/15/1991 8/25/1991	8	(事)	8.2	8.2 8.2	7.7		的影響學及	是的學術學			就一个股份。	200 · 电电路
9/15/1991	7.84	AND	8	8.1	8.9			1000 St. St. St.	国际	3.110	Part Control	
11/15/1991	7.9		8.1	8.1	7.9		7.4		Contract of the Contract of th			7.7
12/15/1991 2/20/1996	8.1	APER C	8.1	See Breeze	7.65		23/92/96		是。当然此级主义			经销售
	779		£7!93	S DAMES	7.87	展 不能		2016年为46	李明帝 国人		1000	
5/30/1996	7.58	died town	7.98	7.96	7.63					7.51		7.2
6/30/1996 7/30/1996	7.79 7.76	200	7.8 8.28	7.8 8.06	7.77	DES PAR		法对抗的政治		7,32		1 july 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
8/31/1996	7		7.8	8.2	7.9				经验到20 多	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN		51.45 ·
9/20/1996 10/11/1996	7.8 8.3	D PARSONS N	8.4	8.1	8.1 8.3	and the same		7.3	dig by the library and an area	A ST CONTRACTOR OF THE PARTY OF	1000/ 0 VI	
4/7/1999	7.41		7.78	0	0,3			1.3			1. 1. 12	Mail 22
5/31/1999	7.73	- 1	7.85	7,83	7.73	製厂		7.38			7:25	
6/30/1999 7/29/1999	7.6 7.65	4 34	7.85	7.86 7:93	7.48 7.59	a But-	DATE OF THE PARTY	7.05	7.77	25 10 10		
8/29/1999	7.75		7.9	7.99	7.66	al magnification		and the second s			7.33	7.46
9/16/1999	7.8	歐海	7.95	7,99	-	12.20	營的现在形	7.43	7.53	7.57		化铁铁的压动
9/27/1999	8.02		8.15	8.25	8.06						7.9	7.89

	41.76		m	LAB pH		2%			
Callantin Dut	4 27 4 27	4.07.4.00		ampling Statio					
Collection Date 1/4/1985	4-27-1 P7	4-27-1 P8	4-27-1 P9	4-27-1 P10	4-27-2 P1	4-27-2 P2	4-27-2 P3	4-27-2 P4	4-27-2 P5
1/11/1985		7 7		"我的妻" 1999年					
1/18/1985 1/21/1985		20 May 128	8,15	E an Principal		Satronial and make	-0.03500 4-4006 90	Williams of Viscos in	
1/25/1985	PARTY CLYCHAL S		6.10	- 一般の大学を表現している。	10.45			7.8	Company of the
2/1/1985				企业 经验是					
2/8/1985 2/15/1985					for the season of the				THE STATE OF STREET
2/13/1985			一人 こうない 日前			国达到5 部分		加速的研究 公司	
3/1/1985	在學樣影響		10世界100		的	R 120 120			
3/8/1985 3/15/1985	West State	STATE OF THE STATE OF		CASE DE STEERS CONTRACTOR	Ne froncessing ourses			For the second	Name of Street Polyages
3/13/1985	新闻的代表全国企业共和 企	SANCE TO LINE SHOP	NAMES OF STREET	经验的名词称			对生产产业的	公司	建美型
3/25/1985	医圆型	NO AREA	7.45		8.75	P CALLS	有数据的	7.90	j.
3/29/1985		SAMESON OF SAME		mark and the property of	THE THAN DISTRICT	The base of the same of the sa		786	
4/5/1985 4/12/1985		· · · · · · · · · · · · · · · · · · ·	科的 基本的 建	(Manual and Manual and	(Carrier State of	为 为是1488		(2) 图 2000	局部域開始不
4/22/1985	his land			Mariana	7020 141A			[[]战器始	THE REAL PROPERTY.
4/26/1985	CONTRACTOR OF ALL	Switch Toronto San Property			Electric transferred to the	No. of the latest and	GOVANICATION I		
5/3/1985 5/10/1985	建國為歐洲區域內		是是可以	是各分的产品等	金属 医神经 医		AND		
5/17/1985						Same.			
5/24/1985			George Contract						
5/27/1985 5/31/1985	第12年48年2		7.45		8:55	E-584 - 156	10年20年1	7.95	世界學術的
6/7/1985		18 2 2 19	是自然是他	200 年 30 0 00	46. 原 页 图		磁测量系统		2 6 2
6/14/1985	GANGE COMMO				-7.000				
6/24/1985 6/28/1985		一个位于	THE STATE OF	1 3 3 W 1 4 W			是这些能		为
7/5/1985		BOOK STATE		Wall of the	() () () () () ()		FOOD IS	9 医蒙拉姆	
7/12/1985	TENGTON								
7/19/1985 7/26/1985		27 显现上海沙		10000000000000000000000000000000000000	至368656			Mildel Alb	
8/2/1985							10 Com	100年20年8日	MANAGE I
8/9/1985									
8/12/1985 8/16/1985	PROFESSION CO.		7.45	6.8	8.3		北京	7.9	
8/23/1985		58 N 258 04	新科学 关键				温 医抗碘	1000	25 ARCH
8/30/1985			ACCUMPANION NAMED IN						
9/6/1985 9/13/1985		美国的		拉西州港上灣	Land to		建筑 的连续是		高速度 300
9/20/1985	(1) 2 NH (1)		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Wall St			西部本省 医软 膜		是《加州
9/24/1985	1 100		7.3	Superior and the same of the s	8.2	PSC Concession to		7.9	
9/27/1985 10/7/1985				HEVER SEE	图 法制度 [12]	新疆和	的国体党经验		是確認認即
10/11/1985 10/18/1985	語に発送され	建筑是数据	Shell de la	是仍然是一	第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十			此地的外线	2000年
			- U/2			The Street Wall	在 是要有到	表现的数据SET	
11/1/1985	Section of the second			ACCUMANTO OF THE PARTY.		Grand State Company of the Sta			
11/8/1985 11/15/1985		TO SEE SE			11000000000000000000000000000000000000		是1000000000000000000000000000000000000	起對自己的問	
11/22/1985	性流流和	对 自然表现		51 此条《下字	全直至50 108	12.2		and the same of the same	STEEL MARKET
11/25/1985 11/29/1985	Manager Park	建产,建筑	7.42	Sales all con-	8.17	COMP.		8.11	
12/6/1985 12/13/1985			Marcy						
12/20/1985				(4) 计10 36 4 6 6	的是機器等	扩展 或数据			N. S.
12/27/1985 1/2/1986	MARKET NO.		(2) 图 (2)	DATE NO.	地大学 中心更多的	DESCRIPTION OF THE PROPERTY OF	AND DESCRIPTION OF STREET	TANK DE	為機能學院
1/6/1986	19,232/			Banka and	CAT NOT			STREET STREET	第3位 海 線
1/9/1986 1/16/1986				and Salvery			Said of Chair	TITLE SECTION	der de la suite
1/23/1986							THE PROPERTY OF		· 公司为1967
1/30/1986 2/7/1986	美国外国际			但是多么(1075c)。			建筑 石煤的	Address and Addre	the party no.
	州 为最终。所以	u¥n Y		7 4 6 C 187	4 4				14 X4 25

	V (<u> </u>	Š.		LAB pH					
Collection Date	4-27-1 P7	4-27-1 P8	S: 4-27-1 P9	ampling Statio 4-27-1 P10	ns 4-27-2 P1	4-27-2 P2	4-27-2 P3	4-27-2 P4	4-27-2 P5
2/20/1986 2/27/1986		Haven bearing			F st. sy.	t star is a		行使知为企业。696	
3/6/1986									
3/13/1986 3/20/1986		Antes (Taxonia)	BHING SHE	A SECTION ASSESSMENT		是指引起	VSV _L 5 de		建 电弧器 计图像系统
3/27/1986 4/3/1986		是15·10	THE WARE THE		8.1				
4/10/1986 4/17/1986	建	医型型性 质		A SERVICE STATE	20 個的思想	图			
4/24/1986	建筑在	黑的感到激笑							
5/1/1986 5/8/1986	公司等支撑的		100 - 100 -			建设 证596			自己有些为数据
5/15/1986 5/23/1986		以外的支持和		Mary Children William		MX STATE OF THE			型解系统的操
6/2/1986	Commission Contraction		STATE OF THE PARTY	Section and Section 1					
6/5/1986 6/12/1986	是是被公司的		正作等沙型工	州岛川民族首都					
6/19/1986 6/26/1986	E CALL CONT		302 (58) 2360				和思想的 第		
6/30/1986	經濟學學	6.6	2000年1200年		7.9	胜数理制制	(14) 医脾炎(16)	7.9	27. 表现在
7/3/1986 7/10/1986		社会自然	· 自由于1970	AND SERVICE OF THE SE	FELSELING		3660	· 2000年2月1日	
7/17/1986 7/24/1986	医		1. 1. 10.01		p.				
7/31/1986 8/7/1986				0.50 万鲁 1 名 2 15	Marian a sa	e	Similar Commond	Character Moderate Acts	
8/15/1986			DESCRIPTION OF THE PARTY OF	SENSO RESULTS		在 基本的 1000 1000 1000 1000 1000 1000 1000 10	自由於智力與內部的		STATE OF STA
8/22/1986 8/28/1986		游光		a la f			建筑的大学		
9/4/1986 9/11/1986					43 % V 30	10000	群岛是 1325世		以他是是
9/18/1986	特尼亚斯 克特	8.7	1 公司	8.0	9,1			8.9	
9/25/1986 10/3/1986							Control Wat		建筑是10.88 6
11/24/1986 12/15/1986					8.2			8.5	E Commence
1/3/1987 2/15/1987	7 8 6 26								
3/23/1987		7.4		6.6	AT HILY COUNTY OF	THE CONTRACTOR OF		apageour const	联合的特殊的图象 。
4/15/1987 5/5/1987		o land			AL LANGUAGE		国际	高热 [42]	
6/13/1987 7/24/1987		7.4		7.3	8.1	on the state of	经 制型经验。	8,4	1 2 50
9/2/1987			7,5			7.			Z
10/30/1987 11/15/1987		7.5	美 沙洛尔(2)	7.5 图	7.9		Diam'r (1911)	7.9	
12/15/1987 1/15/1991					Bry Tr			计图表的问题	NAME OF TAXABLE PARTY.
2/15/1991									PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF
3/15/1991 4/27/1991			This is the work	7.9	7.9		eretachtenen.	7.9	
5/15/1991 6/24/1991	Te for the	8.1		而自然認識情報	8.1	海水清的-10		8.1	2000年
7/15/1991 8/25/1991			是是時間	學學學學	The state of				(2) (2) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6
9/15/1991		althous Broker	Mark Tay	ASTR STOR		9.			
11/15/1991 12/15/1991	State of the last		Jan Marines	7.3	7.5		1200	7.8	
2/20/1996 4/29/1996	新女子的		经营业				H		And the same was
5/30/1996			Property Liverage of	6.7				OF THE PROPERTY.	医复数性
6/30/1996 7/30/1996		7.52		6.7	基制 7.83 8.19		19640	7.79	7 65
8/31/1996 9/20/1996	(1)			4.5					TECHNOL .
10/11/1996	使自然恢制	AND THE SHAPE	,	6.7	7.8	BIR SERVE	Accept the	7.8	
4/7/1999 5/31/1999			(a)			A Parket of		以 为"进"(5)	** : ##\$
6/30/1999 7/29/1999		7.52	7.41		7.73 7.71		8.24		7.75
8/29/1999	7.21						7.67	7.85	7.84
9/16/1999 9/27/1999	8.06				7.96 8.08	沙沙· 10 位线	8.02	7.94	8.08

				LAB pH					
Collection Date	4 27 2 00	4 27 2 27		mpling Stati					
Collection Date 1/4/1985	4-27-2 P6	4-27-2 P7	4-27-2 P8	4-27-3 P1	4-27-3 P2	4-27-3 P3	4-27-3 P5	4-27-3 P6	4-27-3 P8
1/11/1985		A STATE OF THE					海 斯特森		注题的
1/18/1985 1/21/1985	7.95	A SPECIAL FUEL		8.50	UNIVERSAL PROPERTY.	000-000-001-001-001	Familia Process force		Supplied to the California
1/25/1985	Edwing 1-100 selling	COMPANIES SATER	AND REPORTED IN	0.00	THE MET WANTE A				M. Constitution
2/1/1985	好物學的			学科学	是原設的	即過解解的			建 200 多音樂
2/8/1985 2/15/1985		100000000000000000000000000000000000000		A COMPANY		建設以外局等点			ensiones.
2/22/1985			Seminar Construction of Construction (Construction (Constr	dique se increse un pre	NAMES OF TAXABLE	No. of the latest of the lates		BOTH STANFORM	person generates
3/1/1985 3/8/1985	TO PERSON	光热的意				是因初至		CHECK TO	
3/15/1985		经验证据 交		NEW THE PARTY NAMED IN					en xemiliante
3/22/1985								A STATE OF PROPERTY	EUSTROMPONE SMITH
3/25/1985 3/29/1985	7,95			8.15	经企业			8.00	
4/5/1985	拉拉斯·		SAME OF STREET	是据题的		能指揮的政	国际 企业的		
4/12/1985	ACTOR (1)		and the same of the same of		On Olfan Language				
4/22/1985 4/26/1985		是可以仍然被除了	新兴度铁线		100	医 學學中華語			是小维亚公共的
5/3/1985	图 英 华。		建设工程	To the State of			医型型 建	使剧众的主教	阿尔斯斯
5/10/1985 5/17/1985	ACCESS STREET	ACRES DE SEC					SORIE SOLO IN THE		Carolina Marca Managara
5/24/1985		And the system of the			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	74		UR HONEY SINA	
5/27/1985		7.85		8.00		聯遍地灣縣	E TO	能夠和認	建 电影等
5/31/1985 6/7/1985	NEW ASSESSED	Control of the second	CONTRACTOR	Nein Street Baseline		VE WINDSHIE	DOMESTIC OF THE SECOND	And mystalises	EURAN 9 240 EURA
6/14/1985	No. of Particular Section 1997			# INTERNITED IN THE	NAME OF STREET	PLEATERNIES			经验2 有数的
6/24/1985		医蛇肠	图及选择		Charles and A	新聞 新聞	1歲790%	建工程是建筑的	图的模型
6/28/1985 7/5/1985	医 电视频像	Maria	(是)自然等	88 W. B. S.	经经济资本的经		COSTO TOTAL	South States And Co.	新斯里尼东河
7/12/1985						Service of the Control of the Contro			VADE TO PARTY OF
7/19/1985 7/26/1985	MATERIAL STATE OF THE STATE OF		路別的	逐渐渐深起	Translette.	阿斯特斯斯	路科域聯	際とは生命	建 国 安田
8/2/1985			Tax State of	(a part)	1072075		D. SHAPER	No. of Parties	2011 20010
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8/23/1985	(2)	经制度的股票	的特別		领的主持规	DEPOSITOR OF		不要用等用的	
8/30/1985 9/6/1985	ATTEMPT (ADMINISTRATION	STOCK TO SERVICE STOCK OF			的影響的名名的				Sherren DATE HERE'S
9/13/1985	RESERVED STATES		位得,是和JPERCECT	CONTRACTOR OF SEC.	以中,李 宝一年,	是一种的 · 在 · 公司	他们的图形公司 教	THE STATE OF THE S	
9/20/1985				STATE			A THE	是图象	
9/27/1985	SHOE STATE	7.9	题 网络美国	8.3	的祖家院的基本	新加州公司公 司	8.2		AND THE PARTY OF T
10/7/1985 10/11/1985	SHE WAY MADE	ELV Marine Barrie			Editorization sun				
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10/25/1985 11/1/1985	MESSEL SINGS		(2) (3) (4) (4)	學是的思想學	NAME AND	生物运用的		(周星)4-25世	加速的原则
11/8/1985	机器和钢铁	影響媒藻的影	The State of	建设设置		建筑工作	N VICTOR	经验的	
11/15/1985 11/22/1985			建筑建筑和	机械型制造器型度 设置	and the second of	用题 不要()和戏句	NAME TO BE STORE	中心 原体的编辑的	
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1/2/1986 1/6/1986		in Library	21 20 20 20 E	of American	CONTRACTOR			5 Page and	
1/9/1986 1/16/1986		METAL SELECTION	Walker Steller	William Steam		(图) 图 (图) 图 (图)	No Service Val		NA VALLEY STREET
1/23/1986			NEW YORK OF THE PARTY OF THE PA			Carries Contracts	CHARLES AND A	e Production	CARL STATE
1/30/1986 2/7/1986		计算规则是	阿拉斯斯 斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	的。由		是特殊表示	器光度	以影响	持数对名% 种
	Fig. Chair		加州的大学的		10000000000000000000000000000000000000	THE WAY TO	ASSESSED FOR		对信息的 可能

Date 427-2 P6 427-2 P7 427-3 P8 427-3 P3 427-3 P5 427-3 P6 427-3 P	LAB pH Sampling Stations									
8.3	4-27-2	P6 4-27-2 P7				4-27-3 P3	4-27-3 P5	4-27-3 P6	4-27-	
8.6	4	The state of the s				然则和			ARE	
8.8			Fair		RIMMINS'		Charles and	建筑 的中央扩展的		
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8.9 8.2 8.5 8.5 8.5 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1		4.4.4	*0.7	A 1960 A 1970	国际	25% 并以原则				
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8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.	er massers			第145年度			日本 特殊等	REPORT OF		
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7.9 7.8 8 8 7.8 8 8 7.9 7.9 7.8 8 8 7.91 7.91 7.91 7.92 7.91 7.91 7.92 7.92 7.93 7.93 7.94 7.43 7.85 7.56 7.749	Programme Medical	CALINA SERVICIONETTE INCIDENTE				STATE OF THE PARTY AND IN			MATERIAL ST	
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7.9 7.8 8 8.02 7.91 7.8 8.3 8.06 7.9 7.9 7.9 7.9 7.43 7.56 7.56 7.749		學語:不是被指揮者		经基础的		100		(A)		
7.8 8.3 8.3 8.6 7.43 7.8 7.56 7.74 7.49	STEP C		多 数重要的	为是少数结束	热多沙山岛	医	では、大学の	ALL PROPERTY OF THE PARTY OF TH	W.	
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7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9			CANAL PROPERTY (\$100.00)	8.02	Service Service Service	Out of the other	and other converse	7.91	7	
7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.56 7.56 7.54 7.49 7.49		8.3		8.06		APPROPRIESTS STATE		7.97	7.	
7.43 7.8 7.56 7.74 7.49		14.10	DE REPORTE	NAME OF STREET		PASSED STREET				
7.8 7.56 7.74 7.54 7.49		7.9	建设。特别是	7.9	建考虑的		ALL BURNERS	7.9	2 7	
7.74 7.49 7.49			建物设度					建 加州安心司		
	7.8 7.74	(A.175/67)		7.54						
	8.02		大学 1000000	7.49 7.78						

				LAB pH					
Callantian Date	1 37 1 04	4 27 4 50		mpling Stati					
Collection Date 1/4/1985	4-27-4 P1	4-27-4 P2	4-27-4 P3	4-27-4 P4	4-27-4 P5	4-27-4 P6	4-27-4 P7	4-27-4 P8	4-27-4 P9
1/11/1985	150 月前期		为数据				在 经过2000	NAME OF THE PARTY	Mark Car
1/18/1985 1/21/1985		7.00	NAME OF THE OWNER OF THE	Letterar L. venera		SECRETARIAN CARROLL	See Long of the Control	AND DESCRIPTION OF THE PARTY OF	STATE OF STATE OF
1/25/1985	STATE OF THE PARTY	7.65	经制制效。但如	INFORCE STREET	8,00			是指导在自然的	8.10
2/1/1985		COLUMN TO SERVICE STATE OF THE		N. S. S. HEAL	1/2	32 H		医	微硬基 N
2/8/1985 2/15/1985	感受加热的	CONTRACTOR CONTRACTOR	Blad SAISSONAS	SOCIETY OF THE SAME OF THE SAM	31000000000000000	ASSESS VALUE AND	STANDARD COMM	SANGLED STORY	
2/22/1985	OKROPINI ROOKES	0.5865/10.4596/19629	Market Mark	GHEADOL POLICE	CARL PRINT	De Kandida M	CONTRACT OF		
3/1/1985	對於數學	多为是					Y Park		· 展表图 2
3/8/1985 3/15/1985		CVC CONTRACT	CR. (5 6 5 6 7 10 7 10 7 10 7 10 7 10 7 10 7 10 7		COMMISSION (METERS)	SEASON AND AN		Code Carles Carles	A COMPANY OF THE PARTY OF THE P
3/22/1985	The state of the s					2010年4月2日		在战争 (伊罗斯语	
3/25/1985	定组织数	7.65			7.85	是此為學		特別等的其	7.70
3/29/1985 4/5/1985	and a second second	AND DESCRIPTION							
4/12/1985	Mary Jackson 20	NOTES DEVISERS	THE RESERVE	100	有可能能够相比的			。	
4/22/1985	A CANAL		电视像和线	\$10.50 mg					张 德·特别人
4/26/1985			ACRESION MORE STRANGES	of Committee and the	CAC CONTRACTOR S	S	Valority in 1990 in		
5/3/1985 5/10/1985	100	世		北京四個四次子	respective in		PRINCE AND	以他们	EMPLOYER
5/17/1985			阿里斯斯	Ze s				10 and 20 and	
5/24/1985	MENORPHIA TOTAL	of the second of			Name of the last o				ZA Str. Of the Country
5/27/1985 5/31/1985			7.85	经中国的	学·通过证明	8.45	Chi-Sasa I		7.75
6/7/1985	第四面影响	《美和原始	4.2	建				SPACE TO	
6/14/1985					WATER CONTRACTOR				
6/24/1985 6/28/1985	N Profile	是是特性的人物	0 1500	是是其他的		母的感染类		計列之。統	
7/5/1985		的 斯拉斯斯		Park 9			12 000 100 100 100 100 100 100 100 100 1	西京新疆共享	
7/12/1985	SOURCE STATE OF THE STATE OF TH	SPANISSING BODIES	20.4710000-200-440	Management was	Chicago de la composica	NAME OF TAXABLE PARTY.	Silver and the con-		
7/19/1985 7/26/1985	OR CHEST	the second			2007年8月18日		建工程	经国际政治的	
8/2/1985		,但如此 是		有多数 ,想			學上語言語	最初 国道统统	E CYNER
8/9/1985	al report the report of		STORE DISMONINADE						
8/12/1985 8/16/1985		7.7	語學學學學	26165	7/95		阿斯地区 基础	Explorate st	7.65
8/23/1985		9.00 G	NAME OF STREET		(数) (A)		完然很点。		美国教育的
8/30/1985	estable and the		Name of the last o						
9/6/1985 9/13/1985		STREET, SAN	是世代學和	學學的心學		のでは、	自然使为学会的	概念学为技	
9/20/1985			The State of	ENGINE DE	Sales Res	Charles I	HE COME TO	HARACTER !	
9/24/1985 9/27/1985	S was to have	7.8	Series Tea	OT A DESCRIPTION OF THE	7.8	PROGRAMON AND INC.		one with the same of the	7.7
10/7/1985			ENGALES SAVISSES	(1) 10 10 10 10 10 10 10 10 10 10 10 10 10		新型性 化基分		(1) (1) (1)	50.146.35分单点
10/11/1985 10/18/1985	New York	自然的情况多		经数据的 介》	の数点では多数	西南南西海南	HE WAS TO		NAME OF
10/25/1985		新聞歌歌		Harikana.				· 图1000年7月1日	nation of
11/1/1985 11/8/1985				Anna ana ana ana	Live S.C. S.				
11/15/1985			Samuel II	and produce 1.74	AND PROPERTY OF THE PARTY.	THE PROPERTY OF THE PARTY OF TH	1000 to 1000 574 1-101-101-101-101-101-101-101-101-101-1		Name of the last
11/22/1985 11/25/1985	经营业 医直	8.03	经验的		7.00				
11/29/1985	10 C 10 C 10 C	0.03		MARK STORY	7.98		AND PARTY	8.00	(1) (1) (1) (1) (1) (1) (1)
12/6/1985 12/13/1985				A STATE OF S	以 2013年后	(F 1960) 990			
12/20/1985									泛歌語傳播與於
12/27/1985 1/2/1986						· 图像		建 地图	1世 残器 计
1/6/1986	图 更数	為此的學術	政治別官等					拉斯 拉斯斯	
1/9/1986 1/16/1986	Author Parket	· · · · · · · · · · · · · · · · · · ·	S. CONTROL				Rail Gills		Philosophy and
1/23/1986									The state of the s
1/30/1986 2/7/1986		200	Wall Throng	A PARTY	经报刊	2000年1月1日	河域温度	THE PARTY	OF DEPOSITE OF
2/13/1986			100			国际的	沙蓝蛇	影響響影響	

	-			LAB pH					-
Collection Date	4-27-4 P1	4-27-4 P2	Sa 4-27-4 P3	mpling Stati	ons 4-27-4 P5	4-27-4 P6	4-27-4 P7	4-27-4 P8	4-27-4 P9
2/20/1986								4-27-410	
2/27/1986 3/6/1986			and the second of			新. 1. 高山市山			g it in the
3/13/1986 3/20/1986	公司中国共 化				是自由的自然		以 对流 "		
3/27/1986	10.5	というできた。		注意的	建筑的	地名超过加州	THE REAL PROPERTY.		4666237
4/3/1986 4/10/1986					13.5 E 28.0	Karasa da			
4/17/1986 4/24/1986			F 50 10 2	The same of the	(A)			SA THE TOTAL OF THE PARTY.	11,110,203743.4
5/1/1986 5/8/1986					CALL SALES OF T				
5/15/1986							公 和1000年3月		THE PART
5/23/1986 6/2/1986	如后的用品的			建筑	N. C.	长星神经 2000年4	亚克斯安徽 亚克斯		
6/5/1986 6/12/1986	飲物屬的消	区的民族的政策			的主要的性質等	建筑和 建筑	也是自然改造		25,90
6/19/1986	STANKED IN						La lectra		数1986年
6/26/1986 6/30/1986	11.2		M. Davidson	8.0			Part of S		7.8
7/3/1986 7/10/1986	(1) 10 mm (1) m	10000000000000000000000000000000000000		建筑地图图图	1.5E2 (0.5 a. V.				A CANADA MADA
7/17/1986								Market September 1	
7/24/1986 7/31/1986									ATTENDED.
8/7/1986 8/15/1986				THE WEST SAME	经期间			化 边际营制权等	医测量
8/22/1986 8/28/1986	阿德拉斯		例本。這些年	South San		性的特別的		可供的推定	地交換電腦
9/4/1986					化数型型	直線 高	四世 异亚州		Comment (
9/11/1986 9/18/1986		813		随着我也没有自	8.4	報源意 個			8.7
9/25/1986 10/3/1986		《注题》 经营产		IS INCOME TO THE		Principles Shallon	F 05 24 10 12		e assistance
11/24/1986		UPPER TO SERVICE	8.8		5. 2009626878	8.5		8.8	
12/15/1986 1/3/1987	ASSESSED AND ADDRESS.		SISSE PARTIES		CONTROL OF	ATTHER RESERVED.	elo votas e suem	17 当代金利福度公司	i î
2/15/1987 3/23/1987	9.3	8.1		的原则是對於	2000年6	E Park	2000年10月	8	2 3 2
4/15/1987 5/5/1987	Section 1		能認為於	is made of the		部 人			
6/13/1987	8.5	類面的		7.8		图题 成制	ंगी ह	7.9	AT THE REAL PROPERTY.
7/24/1987 9/2/1987	8.9	7.9						11.1.1.3	7.8
10/30/1987 11/15/1987	8	verse se		7.9	, in the same	100		7.9	342 T. W.
12/15/1987									
1/15/1991 2/15/1991						e n i	A _ 412		
3/15/1991 4/27/1991	8.1			A CONTRACTOR	8.1	80.0	高品及各种	-1, 1 dr	8.1
5/15/1991 6/24/1991	8.2	1. 乌朗尔			8,1		45(71)	A, 3,-	8.2
7/15/1991	APRIL 1	to Other	$(a) \subseteq \pi_{i}(B)[p]$				经现代的		0.2 50.25 San
8/25/1991 9/15/1991									
11/15/1991 12/15/1991	8.1	2.40克斯森·波			8	et.			7.9
2/20/1996	Const of the same	The second				10.4 U.S. A. V. S.	į.		
4/29/1996 5/30/1996	7.86			7.78		7.74	to the state of the state of		
6/30/1996 7/30/1996	7.82	7,175			7.95	The part of the		5.5	8.06
8/31/1996 9/20/1996		EN THE SE	自身的人们的	THE PARTY	4.000 年5月1			V & 1	
10/11/1996	8.1	F		如果和	7.8	40	West Miss		7.7
4/7/1999 5/31/1999	7.82						5 " 5 " 25" M(C)		\$15 ga 1.28
6/30/1999 7/29/1999			\$ 4 M 55		是大国民政府	7.77	7.73 .7	7.76 7.92	
8/29/1999 9/16/1999	7.9		7.74	7.62		7.77	7.91	7.88	
9/16/1999	8.17		8.09	8.14		14 J. (5746)	1.8	2.00	

7		-		LAR old	1000				
			Sa	LAB pH impling Station	ons				
Collection Date	4-27-5 P1	4-27-5 P2	4-27-5 P3	4-27-5 P4	4-27-5 P5	4-27-5 P6	4-27-5 P7	4-27-5 P8	4-27-5 P10
1/4/1985 1/11/1985	No WE .			E .					
1/18/1985	The Grand of the Control of the Cont		PER PROPERTY.		THE RESERVED		建筑		
1/21/1985	9.15			西京教教					医侧 药压 青
1/25/1985	management strater								
2/1/1985 2/8/1985		模型。高度整		No. of the last	ALL MARKET	9			加克斯克斯
2/15/1985		A PROPERTY OF LAW	· [24] 大学公司人	DIRECTOR OF THE PARTY OF THE PA					III
2/22/1985	Spart Small Protection Co.	P. O' A CO. H. LONGS GENERAL CO.	STATE OF THE PARTY OF THE	WEIGH VERPONSON	CONTROL STRONG	META COLUMN STOCKS			E Ed. Military
3/1/1985		烈 化磁位 对		自由自然的	经 的复数				
3/8/1985	(2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Property and the second	DECEMBER 198 TO THE	Military decreased type A	Andrews Course Course		POCHOCOLONIA CONTRACTO	State of management again.	
3/15/1985 3/22/1985	Part Control of the C	/ 原基中 # 1/4	A Barrier	STREET,	A CHARLES	第100 个1000年	经验证证	A Charles	
3/25/1985	8.05	North Ath	10 m	则是 征器	7.85	SECTION AND ADDRESS.	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	8.45	SUPPLY THE SECOND
3/29/1985								110000	
4/5/1985	统计论库		国 表	認同關係	14 年第		医		。 更是这种说
4/12/1985 4/22/1985	A STATE OF THE STA		ESTATE OF THE PARTY OF THE PART		COLUMN TO SERVICE DE LA COLUMN TO SERVICE DESTRUCCION TO SERVICE DE LA COLUMN				
4/26/1985	HARDES WE TO STORY THE	CHARACTER TO	医多种性 经存货 经	SECTION SECTION					
5/3/1985	经	A-18192-138-15	後數等	公共中国	海門面外	信。可想即使	经验 转变		
5/10/1985		TOTAL STREET, STREET, ST	CONTRACTOR AND ADDRESS OF THE PARTY.						
5/17/1985 5/24/1985	新生物						如阿斯斯	制度政策的	
5/24/1985	8.00		他就仍是道		8.10	第22章 京美 麗		8.25	
5/31/1985					go attended to company	BUT THE SECOND	Makeurin Linearity	0.20	er man uppropriet en en en
6/7/1985		人。你就是	77		交加		原金融超慢		ELECTION OF THE
6/14/1985 6/24/1985	100 A. C. S. S. S. S.		SECTION STATES	表现的态度对抗的 和现在	Tolar account of	2 6 4 6 4 4 4 4 4	hamilees about sum	m. a positivo de	William Service Activity
6/28/1985		(10.00mm) (10.00mm) (10.00mm) (10.00mm) (10.00mm) (10.00mm) (10.00mm) (10.00mm)						#S4 # 194.00	SALES ASSESSED.
7/5/1985		学 多测力型	1000	A 12/2/12			6.4	KARLES AND THE STREET	
7/12/1985		400							1090
7/19/1985 7/26/1985		4	通过的	海胆 學 字	1 2 3 3 5			可多数	
8/2/1985			12 美多宝色	A 46 193	医经验 电动脉冲	有限的 20%	7 4		CONTRACTOR OF
8/9/1985	The second second			The second second second	See a Paris de La Caración de la Car	Date Actions		SPECIAL CONTRACTOR	WAS STREET, SANS TO VALUE
8/12/1985	₩ 8.3			国際的 學報	8.05	图	经是有证据	8.2	
8/16/1985 8/23/1985			能和教练人的政治			A section of the section	DELLA SECRETARION SIN		
8/30/1985	the real statement	A CONTRACTOR OF THE PARTY OF TH	多沙森市	经金融资格 數學學	L. Strikerist Co.	N 1985 (1975)	AMERICAN AND		图
9/6/1985	设相加证明							萨西德温度	ASSISTANCE NO.
9/13/1985									
9/20/1985		1111	17、温度学出现	A STATE OF THE STA	0.0	建设,			
9/27/1985	200 0000000000000000000000000000000000		是指導性發展	PARAMETER	0.2	15812211022		8.1	STORES - NO.
10/7/1985				Printed and the second and the secon					
10/11/1985 10/18/1985		An less persons	第二种种类	MATERIAL SECTION	2000年1000年1000年	医巴尼伯氏征 化合业			
10/25/1985	1977		新型的2008	18. 多地级正式计		(1)	がありまいりませ		
11/1/1985 11/8/1985	學的物理學	阿罗金金州 (5)	15-25-1-1-24	AL VACCO		Barra Salas		er internetien kann	
11/15/1985		SUPPLY SERVICES	CLOSED ARTHUR BUSINESS	WHITE BOWN STATES AND AND AND ADDRESS OF THE PARTY OF THE	Side and the second		a market and the second		
7	前,中国的	語數四數學			ALC: NO.	多四种 事 化四种	類形。海6	建设 相	是是是
11/25/1985 11/29/1985	16/73 1/2/53	43		8.06			The state of the s	8.23	30.30 A 200 TO
12/6/1985		T-2 48-2 11 2-4-3	Application and						
12/13/1985 12/20/1985				高沙 斯斯里特的人		和亚特里世 斯	军制的特殊	国籍 包证别是	
12/27/1985	1,104,001		rests (A	$N_{\rm eff} \in \mathbb{R}^{2}$	STEVENS OF	524 (MP/25)	建设建设地	1700 150 10	
1/2/1986 1/6/1986	12.	re i su sustan	A design		STATE OF SE		Yardan Tarta		3650 750 31
1/9/1986				Marie Company Company			traction of the		
1/16/1986 1/23/1986			国际共和国			建 TS/基件			
1/30/1986				. 1 W 5s 1	1. 3. 四、4. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.		A PARTY		
2/7/1986						of the second control of the second	A31-9-0		
2/13/1986						$1 + k_{\theta} k_{\theta} $	的國際國際	整数数据数据	棕榈度紫龙河

NEW.			Sa	LAB pH mpling Station	ons					
Date 86	4-27-5 P1	4-27-5 P2	4-27-5 P3	4-27-5 P4	4-27-5 P5	4-27-5 P6	4-27-5 P7	4-27-5 P8	4-27-5 P10	
6 6		Extra circ	MALES &	A Market		NEEDS N				
ı	《教》等提出的 第5	在此是我們性								
	AN EXPLORED S	831.250636	网络1.7000000000000000000000000000000000000	8.4		(E)	N DE ESTADO	8.4		
			CONTRACTOR OF THE PARTY			Contractions of Physics So.				
ŀ				第1.年代前6. 項2	新国洲效应影響	经现代的		新聞和建學 對於		
ł	地多和底层		能等的基礎			是社会的基本的	对数数数约	技工作的 总统	2017年	
ı				相關的影響			k de la		(世界)	
ı	数平均数	> a notice	NI Jak SIJA		E CONTRACT		图像 图象		AND THE A	
ı					ale al al al al al					
	Note: Note: The State of	esa en diagra	a well samuels	STATE OF THE PARTY	N. Company	50 March V20 5700			P = 0 = 7 = 0 5 7 = 10	
ľ		8.0								
ľ			7.9	CHARLES OF	A SEPTEMBER SEPTEMBER	Stylic Land Aven		7/9		
ľ						ALC: PARTY				
			Aterative in		新疆域		定。除的疾病	De la company		
	爱见唐敦 志	的的學習的	图(图) 對後數	Sec. 19E	為明整的透	AND THE RES		Miles files	The lates	
ı		大方式而於是	A MARKET	加州面积						
ı		R. S. Sub-O		Par Resident				1105至12年		
į.		9.5	Walter Street					9.2	Established September 1997	
ľ	PASSAGE (ARMITA)	6.5		MARKET MENAUTE	N. S. W. C. SHILLIAN	NAME OF THE OWNER, WHEN	INNERNA DEL DESIGNA	8.2		
100	发 加起了 对							10000000000000000000000000000000000000	多次的特别与科特的	
	从高速	公台站等方的 有			的語彙的	THE STATE OF	學計畫的影響	10000000000000000000000000000000000000		
	《美國美國	計画などを含	10.87 (17.5)		8	8	8.1	(E) (A) (B)	t something the	
1		(E) His Co	學問題後							
					7.8	7.9	我 那么多数性更	SELECTION 250	F-12-8	
l				May Strong	7.9	7.9	到 你可能是	San	7.9	
Į,		DAN HARDES STURING	· Name of the	STREET,	7.7	7.7		es a militar se		
ľ		IS HERE MENT				1004 (004 1000)	tions of the second	ESOS HISTORING	Marie	
				がありている。		estrulus se				
9000	7.7	河政院的国际		群都是 省上 经		对 表示等。例		7.8		
4	7.7	医神经衰竭	對於。在自然是				05C 2017] [] [] [] [] [] [] [] [] [] [
	o is the same	1405 X 2	则可 3条			CAMPACA A	经验	8 55 2 M 2 K 26	Charles Cha	
ı	20500			FALSO EN	Software Tracks	SIME AND AN		ngalangarta		
	7.7	576年197级高度		是在 对反映。这种	A STATE OF THE STATE OF	A CONTRACTOR		7.8	CONTROL STATE	
	manaca (la ten	经间端的原始			THE LANDS	NAME OF STREET	MANY 原为于 312 以	建筑的是他国籍社会	Translation (Fig. 19	
	7.77	el es accompa	THE RESERVE AND ADDRESS OF THE PERSON OF THE	20303032244			No. of the last of	7.71	T的建筑和建筑社会公司。	
	7.67	2000年	从 超标题版		MAC TARREST	12116		7.94	%在新疆的 。31	
8	西华岛沿岸设置	1070 新创建		が一般の対する	CONT. CONTO	地址和政治				
(360)	7.8	Tell Andre	企成区 第15	图6.44 1753.65	State Park	流线以指数		7.8	組織的海拔	
Ē.	7.28									
100	7.4			在1000年1000年						
	7.51 7.62		到的 原格等。					Micasos III Ya	STATE OF THE STATE	
- 6		CHECKER LESSON WITH THE	SEAL SECTION AND ASSESSMENT OF THE PARTY.							

				LAB pH					
Collection Date	4-27-5 P11	4-27-5 P13	Sa 4-27-6 P1	mpling Station 4-27-6 P2	ons 4-27-6 P3	4-27-6 P4	4-27-7 P1	4-27-7 P2	4-27-7 P3
1/4/1985 1/11/1985			Land Company	49 . V				\$P 被以	
1/18/1985								100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRODUCE STORY
1/21/1985 1/25/1985			8.95	8.85	8.50		8.25	世紀世紀初	
2/1/1985		A PARTY	特别的	dentil h	in mai	New you	排除 (100	建建筑地 观	
2/8/1985 2/15/1985				A long as in a	是 在 特别的更加		学和 对积100	SE ALEXANDE	与不安于数分级计
2/22/1985	DEA-SEVE VENEZA								
3/1/1985 3/8/1985				NESSEE THE PARTY NAMED IN		有人是自己的	建筑		第四次第四条
3/15/1985	门西疆水市社			5世8年3月2	建设。现象	经验的大约的	多数的	10.7000000	
3/22/1985 3/25/1985			8.05	8,35	8.05	非形成于5倍数	7.35		
3/29/1985		Son ten are stated at		DE SAFE STATE		27.02			
4/5/1985 4/12/1985	地名地名地名	2000年1000年100日	Activities (1975)	图1040年1月1日6日		學的社會學學	2000年1月1日		The state of the s
4/22/1985			14.0	9				15.2035	京苏州港(198
4/26/1985 5/3/1985				at Malaka	美艺术协会	TO LONG THE REPORT	理。為國際	MENTAL BUT	0.2048
5/10/1985	delicates that or stress				GC but III become			THE OF THE OWN	
5/17/1985 5/24/1985	ENGLISHMAN	注意的是	国籍的交换	FD. TE. S. C. S.		The second second	Residence State of the State of		经的建筑
5/27/1985	自然的政治		7.85	8,45	8,00		7,85	图 报答	京是蘇州
5/31/1985 6/7/1985	1000	No de la constante de la const		(1) (1) (1) (1)		Control of the	成是沙岛东		
6/14/1985	(Spherophyllogen, phonography	Access to the late of the late			Chr.			amane approximation	
6/24/1985 6/28/1985	建筑市区展 厅		e republica				製造技術整備學	持つ学生	是的學家的
7/5/1985				的是由这种		E		建筑等	
7/12/1985 7/19/1985	No. Section 5		TO THE SECOND					MANUTE THE REAL PROPERTY.	
7/26/1985	STRUMENTS CONTRACTORS TO THE						Decimal Committee of		TO COLUMN THE PARTY OF
8/2/1985 8/9/1985	(1) 以 (1) (1) (1) (1) (1)	with the second		LOSE TRUE	美女生的				
8/12/1985			8.1	8.5	8.15	10000000000000000000000000000000000000	7,8	分替对包括	
8/16/1985 8/23/1985				国际国际	,n		Participation (September 1987)		Talles Maler
8/30/1985	CONTRACTOR OF THE PARTY OF							SCORES SPERING	Solice continues marginal par
9/6/1985 9/13/1985				Manual States			e in the second		经验的数据
9/20/1985	to ' ℓ . f			0.3000	心理的人。如此		建设是1000	50000	
9/24/1985 9/27/1985			7.7	8.5	8.2		7.9		Mark Market
10/7/1985 10/11/1985		THE RESIDENCE	建心部分可以中	的地。· 安治部的		1 10 2 2 7 74			
10/18/1985				THE REAL PROPERTY OF		A STREET OF THE STREET OF THE STREET			No principal processing and
10/25/1985 11/1/1985		是一种企业工程	然即从第4条	A HEAD				10年	的影響的
11/8/1985 11/15/1985		计 有品 收包		型体的 信息指					
11/22/1985		[419]H.(30]]	建 1000000000000000000000000000000000000	建		多。網盤花譜	MESE COL		Section 2
		用則認動地類	8.04	8.31	8.17		8.20	CONTRACTOR OF	7.100 电影流
12/6/1985 12/13/1985	"老"	845 May 2,84		· 2000年1月1日			the state of the	ocan) Securit	
12/20/1985 12/27/1985			為过去的思想信息	和社会中心	en rich p			Owless of the Park	
1/2/1986									
1/9/1986		F2 (F2) 4 11-13	/世界3个家庭			4.6	10 E V	E 1 10 7 120 fb	
1/16/1986 1/23/1986			色物學是	5000亿元			一个人	C) CS	是是實施
			CONTRACTOR OF THE SECOND			7	25.	este en	學的家
	2.477			医欧洲 含含40%			製物的影響的		则能和数据

				LAB pH					
Collection Date	4-27-5 P11	4-27-5 P13	Sa 4-27-6 P1	mpling Station 4-27-6 P2	ons 4-27-6 P3	4-27-6 P4	4-27-7 P1	4-27-7 P2	4-27-7 P3
2/20/1986 2/27/1986					SERVICE SERVICE				
3/6/1986	rae a sur Paris				THE PERSON NAMED IN	A. 40-14 (11-15-15-15-15-15-15-15-15-15-15-15-15-1			
3/13/1986 3/20/1986			为在预用影響的		善法 是他们			New West Way	自由在"克尔斯"。22g
3/27/1986 4/3/1986			8:3	8,5	8.4			BA SUE	
4/10/1986	一边似了		(国际)			建设场的	She Hall		建筑的
4/17/1986 4/24/1986	加拿大河南	Land Carlo	经验及公司与经验	西西	小田田村市			P. C. L.	
5/1/1986 5/8/1986	ERSON DESCRIPTION	CASA SERVICE				to the survivor			
5/15/1986		通用的 15 %以上自由小市中联合约	7.9	7.7	8.0		では、日本の一年の一年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	AND SECTION SECTION	
5/23/1986 6/2/1986	高级的现在分 位	to applied year the		阿里拉斯		新作了。他的 意	直接的原理		
6/5/1986		是以表现				自 对化。 生日		建 经和指数	国情况 为
6/12/1986 6/19/1986									
6/26/1986 6/30/1986			8.1	Selection of the second	7.8	8.1	7.8	and the second	统系统政治体制
7/3/1986				STREET, SOUTH			INTERESTRIC AND ADDRESS	A STATE OF THE STA	
7/10/1986 7/17/1986								1.40年的中国	国新政场报告
7/24/1986 7/31/1986	国际的	Control of the		10-20-916	新社会	#181PE A 1812	和 边。"表表		24.5亿亩中
8/7/1986		一题 。	经 编制报题	阿拉拉斯				经 数据	医
8/15/1986 8/22/1986	为解 实金(新疆			at a second		经知知的是产 产	Mark State		
8/28/1986 9/4/1986	Complete a large of participation	Mario de Caración			Anna market	TO WATER TO THE TOTAL OF			District Control of Control
9/11/1986				PROPERTY OF STREET	26 31 Birth	经济分别的		10720 (408.0)	
9/18/1986 9/25/1986		阿斯勒斯科	经之间的	阿洛巴斯区		用影響的	8.8		20分數額增加
10/3/1986				Summers)					為於事所許
11/24/1986 12/15/1986			8.4	8.0	8.1		8.3	有种数 (E. J.	655 January 15
1/3/1987 2/15/1987			8.3	8.5	8.5	Carson Date	Strategy Group	occurs sends	ENGAR WISTON
3/23/1987			8	8.3	7.9		8.1	The second second second	です。 よる年 神経過ご 間を作る
4/15/1987 5/5/1987			7.9	8.1	7.9			2000年1月1日	的學話的影響
6/13/1987 7/24/1987			8 7.8	8.2 8.1	8.1	8.1	8.1	使性性 /學	局等医療學
9/2/1987	100 图图 		7.9	8.1	especial man	7.9	19		NEW PROPERTY
10/30/1987 11/15/1987	7.8		_7.9	7.9		7.9	8	7.9	7.9
12/15/1987 1/15/1991		IS NICE OF THE PER	stern live is to	V 200 100 100 100 100 100 100 100 100 100		NAME OF TAXABLE PARTY.	1100		
2/15/1991		ISSNEDWAY WAY	Bereitstein fe		(2010年)		の表示である。	Park Selection	
3/15/1991 4/27/1991		7.6	8	8.1	8.2		(2) (1) (2) (2) (2)		05世紀三年2月20
5/15/1991		计算是不多			A POST AND		学 见在20年188	域和磁料鐵	
6/24/1991 7/15/1991		7.8	8.2	8.2	8.1		8.1	(F2X)5338	2016年11日 11日日
8/25/1991 9/15/1991	IO COLLEGE AND		8.1	8.1	8.1	AA IS NOT		nika empiralment	# COLUMN TO LOCAL COLUMN
11/15/1991		7.6	7.8	7.8	7.7		7.9	Olevon Samuel Co. M. N. W.	THE STATE OF THE S
12/15/1991 2/20/1996	EN LABORETORIO	全区在历史	有关的	剪型器的 源的 的		建物的 体系表现	政治、夏 尔克	Reason as a	
4/29/1996 5/30/1996	的人的地名美	7.6	7.84	7.91	7.9	成在2011年9月 4月2	Charles and the	662天场地	发 。第2
6/30/1996	000 miles 2.6	事的就是首领政策	所的機能系統	的复数影响	是一個一個	新加州和	建 公司 (1)	en me	WEST SER
7/30/1996 8/31/1996		7.81	7.99 789	8.14 7.9	8.07 8		8.01		
9/20/1996	P. V. E.	7.9	7.83	7.85	7.98	March Salve et			
10/11/1996 4/7/1999	* Elki	nasys/CV Refer				100,000,000	7.8	的。自然是自然	
5/31/1999 6/30/1999	对于本种的		7.69 7.85	7.75 7.83	7.24 7.81	(本語 2004)	7.7	7.85	DE TOPING
7/29/1999		A 18 10 10	7/31	7.73	7.83		是母親的	7.85	資訊與關係
8/29/1999 9/16/1999		Contract C	7.65 7.86	7.81	7.74 7 /96		8.01		
9/27/1999	3.		8.09	7.95	8.08	4844			

				LAB pH				000	
G. #				mpling Stati					
Collection Date 1/4/1985	4-27-7 P4	4-27-7 P6	4-27-7 P7	4-27-7 P8	4-27-7 P9	4-27-7 P10	4-27-7 P11	4-27-7 P12	4-27-8 P1
1/11/1985				医型扩 着		我的意思 说			可能等级
1/18/1985		700	activities management		erson whereten water		Contractor and the same		
1/21/1985 1/25/1985	語。然為其語	7.65	高於100年第14回					8.35	9.75
2/1/1985	隐線線線	建筑的				ENGLES &	被禁禁領勢		
2/8/1985	Appropriate products and	Proposition and the second				17 St. Millio Section State & State & State &			
2/15/1985 2/22/1985	经 对金属的								
3/1/1985	的	使用的数据			列亚市温泉	新教教育	Table State Control	第4人列始政策	
3/8/1985									ENCORPORADO ACIDA
3/15/1985	設定機能は	可能認為相關	政能無益的		2002	E SE SE	即提了政策系统	12.00	是傳送
3/22/1985 3/25/1985		7.80	4 To	建	Mas/Sales	STATE SHEET AN		7.85	8.35
3/29/1985								Parment . O Canada po	ELONELLO MODELLO
4/5/1985	的個別都可	为李林岛市 第	为此对法则		以片倒海线				
4/12/1985 4/22/1985					HART BEFORE	PER TREPAREN		(2018年)	Carlo Carlo Carlo
4/26/1985	COLUMN DESIGNATION	THE MARKET PROPERTY.		San na ganasas	2012/2020/04/03/5/25	Dean Literature des Control	CONTRACTOR OF STREET	· 加强。由为17年16年18日	SERGONARIOYANG
5/3/1985		Total Control	国数温度						製器修製
5/10/1985 5/17/1985	STATE MA	2197条管局地			CONTRACTOR		We wise live on	no work on the second of	COSTO AND VISION BY
5/24/1985		SALES AND ASSESSMENT	Petroprometrical	S COST MAN TO SELECT	OF STREET	MEST DIFFERENCE.			州西北京 集
5/27/1985		7.65	AND PARTY.	5/11/15	可提供的	Bird Mark	四级中海 3.8	8.05	7.65
5/31/1985			Various Sandaras	ALCOHOLOGICA AND			Participant of the Participant o	The Control of the State of Control	ACCUSATION NO.
6/7/1985 6/14/1985	THE PARTY OF THE PARTY.		A STATE OF THE STA	至日本語名 547.03円	STORAGE TOTAL			2000年6月1日	研究研究的
6/24/1985	能研究。		结合法规						
6/28/1985		de procesa de la como			en meumenimus.	About the last and			
7/5/1985 7/12/1985				可以不是,因此是	第4 《特别的》	建 经基本		THE RESERVE	talk The
7/19/1985	De Carlot	SER SER	西班班里						
7/26/1985			A served by training Land						
8/2/1985 8/9/1985					Section 19	网络国际经			《西班通》
8/12/1985	*	7.75	が記録が					7.9	7.85
8/16/1985									
8/23/1985 8/30/1985			協和國際	部計劃到到於	1011	2000年的1900年	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		治性 維度 動力。
9/6/1985	建筑海洲	764					THE PROPERTY OF	9/19/20/20/20	Case Late Cas
9/13/1985									
9/20/1985 9/24/1985	建筑 地位	7.8	新年12 0	生 发生 中心	阿拉斯维尼斯	建 基础的图 268	通過的機能		的學術的技
9/27/1985		13333113		5 2 (7-2)	11/2 100 200	400年,李成年	医	7.8	7.8
10/7/1985 10/11/1985		产品。 2. 1 2 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	(Tal) (1900年)		Alexander A	f var andrews	grafi Ru	CONTRACTOR STREET	
10/18/1985	DETAILS AND SERVICES		SESSIMBLE AND SESSION	2015年10月1日 1016年11	414.70可能 经 证明 26	美加汉 地区和1980年	建筑的	7.2 K 1 7 7 1 1 1	
10/25/1985 11/1/1985		是自己	第四种国际			的學術學學	党队 在 146年	Luis Sou	
11/8/1985	到了的首任		the Maria State			三年初度5-1 4	ALE CANCER	Si - Se (2)	and the second
11/15/1985 11/22/1985	() D. 电线(图图图·2017年)		WHITE BESTER AND LE	03. W的以即35年 Au	S. Alice Street, Street, September 200	Control of the second second	December 1		
11/25/1985	7.91		(1) 10 10 10 10 10 10 10 10 10 10 10 10 10		美国和西班牙		自由於於新於教	经市场经济 经营业	8.15
11/29/1985		Parker 1	28的高级数	地域では	国际 的		现在1900年	的常规的声音	(C) (A) (B)
12/6/1985 12/13/1985	鐵順。沿色	4.440 (17)	对是 和他的	4. 30 人的方面	到阿姆伯里群	沙 斯 蓝沙蛇	Man Address	CHARLES THE	
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1/2/1986								AND THE RES	ALCOPACION AND
1/6/1986 1/9/1986			學出版是是一個	建筑 地的区	**	是個個的	10000000000000000000000000000000000000	工作后 医二根	的国际的经
1/16/1986	のないなから	1951	1000年1000		ON COMPANY		PART PROPERTY		建设设备并 设
1/23/1986 1/30/1986		创发为新可能 学生	Kin Water House			12 10 10 LV			
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2/13/1986	的最相似的理解。	(国際語》	The same of the sa	温度 是 企業	16 作业区	是一种	THE PERSON	的影響等為多	写影起过雪 科

				LAB pH			v=		
Collection Date	4-27-7 P4	4-27-7 P6	Sa 4-27-7 P7	mpling Stati 4-27-7 P8	ons 4-27-7 P9	4-27-7 P10	4-27-7 P11	4-27-7 P12	4-27-8 P1
2/20/1986 2/27/1986	NAME OF THE OWNER.	ESTER BY	語の多くの問題			Andrea En	元为八字 中华(安东)	State of the last	老后的地方除在这样
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3/27/1986 4/3/1986	8.0	和當民族宣	A. Carlo		8,0	经验	AND REVER	8.0	8.0
4/10/1986 4/17/1986	经企业		建建设	的是实情感	医影響 質與			全性 的 19	1300年7月至
4/24/1986				學是發展	国际 。及1963年				
5/1/1986 5/8/1986			2						所以不是海内
5/15/1986	HARD PROGRAM AND								
5/23/1986 6/2/1986		进程性经验 证法院		De la Maria de la Colonia de l	沙斯 李宗和北京				NAME OF TAXABLE PARTY.
6/5/1986 6/12/1986	基本的	沙区		1200年480	A STATE		是是是		
6/19/1986	医性隐隐	禮為國際	8.7% 四周期	医糖酸性	(基金)(1)	多沙的财产		學是我們們	
6/26/1986 6/30/1986		7.6		建 學等為	DESCRIPTION OF THE PARTY OF THE	经进步增强的联	William 1988	7.6	7.6
7/3/1986 7/10/1986		3 C 7 Sec. 7 3 7 7	1022221011501920	STATE OF THE	2100 1 SALLES		Scottage description (contra		
7/17/1986		The state of the s		SHARK CHIRDH IN 1997			MESSES SHEET SHEET		
7/24/1986 7/31/1986	SOLVER SEE	医罗拉斯氏	日國 紅形 (名)			No. of the last	5.40年04年		
8/7/1986 8/15/1986	のは、大学の大学	[2] 数位线点	2000年1月2日	原細 陰 商	33 C 2 C		Page 10 light		
8/22/1986	网络欧洲	hitan kilek					CARL STON	40000000000000000000000000000000000000	
8/28/1986 9/4/1986		高 海線 温煦	Art Salation				別の研究なる。現実情	Page 1 and 1	Day Water Trees
9/11/1986 9/18/1986		8.7	nation was real			William Co. Marine		- 00	0.0
9/25/1986		0.1	阿利用各种地名为	PROPERTY.			MARK DESCRIPTION	8.9	8.8
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12/15/1986	新聞		ALCOHOL: N		建筑过程 数	被加州的	国際はの注意		
1/3/1987 2/15/1987	医数型性	科學、物理系	22 HURS (\$45)	建筑的温度是					
3/23/1987 4/15/1987	97 - 11 B - 17 C	建筑地区发现4 名	8.2		g- "18 3 mag		8.1	in The State	8
5/5/1987		Participal decem		Angeles & Angeles (a)					
6/13/1987 7/24/1987	8		8.2			经验证明全主法的	建设制工业公司		7.9
9/2/1987 10/30/1987	Market Harry	点。如	7.9				8		7.9
11/15/1987			學是是學	国际外外型		翻的直			是此為主義
12/15/1987 1/15/1991	新了思。由您	(de appropriate		於海绵斯里	经验报 证明		Mar Halling	t plane	
2/15/1991 3/15/1991	Was the second				STATE OF STATE		CMSC TO A SC NAS		
4/27/1991	Contract and an analysis				accomply worth at the		SECOND CONTRACTOR	POT BRANCH PROBLEMS IN	8.1
5/15/1991 6/24/1991		8.2	院上其房份銀河里				Single Lagran	8.2	8.1
7/15/1991 8/25/1991	自由力でお客	2、40%主动	的最初推進	在地區的地區的			基础建筑的		化等核 化数
9/15/1991		6 2 E E E E			国的人。	SMITTEN SMITTEN	rear and a	自動學院教育院	Mark State
11/15/1991 12/15/1991		8	in the second	To de trans	8 - 1 (B)	医生产 表 电影		8.1	7.9
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5/30/1996		, , , , , , , , , , , , , , , , , , , ,		- Andrews			7.82		
6/30/1996 7/30/1996	建筑	8.05	(5) 经产品	A SHAPE OF	4 50 42	的社会自然证	8	经进口自己的	7.89 8.04
8/31/1996							一种		50年,10年前
9/20/1996 10/11/1996	成別的建	RANGE AN	調に共変を	7.8		用图 学基础是	7.8	ALC: ALC: ALC: ALC: ALC: ALC: ALC: ALC:	7.7
4/7/1999 5/31/1999	公司			f. 4377		7,86	7.81		7.64
6/30/1999	**	7.82 7.49		7.8					7.84
7/29/1999 8/29/1999				7.9 7.79	7.79	7.8		在自然於何思治	7.85 7.67
9/16/1999	7.92	7.9	ENGLISH BELLEVING	DEPARTMENT OF	WINDSHIP TO THE PERSON OF THE	學是民族的	S	丽 医路线神经线	以便等 原更是
9/27/1999	1.02 and		Series allering the Control	8.18	8.15		8.18	NAME OF TAXABLE PARTY.	8.15

			LAB pH		2124	
			impling Stati			
Collection Date 1/4/1985	4-27-8 P2	4-27-8 P3	4-27-8 P4	4-27-8 P8	4-27-8 P11	4-27-9, BH53
1/11/1985			500			
1/18/1985		The second process of the second		SAN DESCRIPTION AND ADDRESS.	IN DISCUSS OF THE LOND	
1/21/1985	7/70	3 %	7.90		建一个工程	7.45
1/25/1985						
2/1/1985	1.14		. 15	经验的证据	S 65	
2/8/1985 2/15/1985		TENERS AND SHEET S		经 对现金加度(20.3)	Harry Strawers	4.905 WY 1967 A
2/22/1985	Market Charles and Market N	SEPARATE A BARRA	A Marie Boulding	新见在花型的 连起了4	The American State of the State	
3/1/1985	100 May 16			10.50	经	
3/8/1985						
3/15/1985	學的學學	RESEARCH TO	外观	學學的語		
3/22/1985				Andrew Programme		STREET,
3/25/1985 3/29/1985	7.80		7.70	次 100 100 100 100 100 100 100 100 100 10	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
4/5/1985	H. C.	建构设施				
4/12/1985						
4/22/1985					於地域。	制度的用金属
4/26/1985	AND ROOM ASSESSMENT	elan metro cultural.	1 to 2 Personal State of the London Co.	A supression of the supression	P. M. Surveye, Inc., p. 193	One of the state o
5/3/1985 5/10/1985		是自由的	是特殊的	2000年1968年		A SECTION
5/17/1985				医网络鸡类红斑	7.16万000000000000000000000000000000000000	
5/24/1985	(congruption)			Land Colonia Sopra (Prin	Company of the Compan	
5/27/1985	7.25×		7.95	原海田院推	是自然的	7.35
5/31/1985		CANADA ETTATO		No. and Assessment	P. Miller Walley	
6/7/1985 6/14/1985	新发生品		Name of the			20 20
6/24/1985		The state of the s	nie okalieja	以 表现的語		
6/28/1985	40.40.00		Start Control of the state of t			Telegraph was desirable to the second
7/5/1985			自然和認識		102001	
7/12/1985	MARKET CONTRACTOR		10-10-10-10-10-10-10-10-10-10-10-10-10-1	SECTION OF THE PROPERTY OF THE	SICEPORNIC PRODUCTORS	
7/19/1985 7/26/1985		STATE OF THE PARTY.	美国 对社会公共		ISSUED TO SEE STATE OF THE SECOND	19.00
8/2/1985	No. Laborator	E. S. BART	Spinet in		NATIONAL MENT	3
8/9/1985						
8/12/1985	7,55	物。但即經	7.75*		のできる。	7.2
8/16/1985	PI		ESTATE PROFITATION	SOCIAL PROPERTY AND INCOME.	TOWNS AND RESIDENCE	CONTRACTOR STORY
8/23/1985 8/30/1985		医	HANDER AND SHEET			WIND COLUMN CHOSE
9/6/1985		7. 22.			W. W. W.	
9/13/1985						
9/20/1985	图字相及 Set	当如学们的	70	100000	大學工程	
9/24/1985 9/27/1985	7.5		7.0	98.24.42.2	工资水水 (1)	7.2
10/7/1985						
10/11/1985 10/18/1985				記録を聞る世	可可靠的意义的	
10/25/1985		No. of the last		人名意	6. 真正张统	· 图图
11/1/1985						
11/8/1985 11/15/1985		经产业企业				$\Psi_{i} = \mathcal{F}_{i}$
11/22/1985	HO THE STATE OF	N. Parkerson		大汉明他为苏	图 有资源原	
11/25/1985	7.95		8.14	STOLEN STATE	and the person of	7.15
11/29/1985 12/6/1985						
12/13/1985					may much	光型 (三连)群
12/20/1985 12/27/1985			SALES OF A	(Children and Children	WHEN STORES	
1/2/1986						
1/6/1986 1/9/1986	四時內能上的	经金额 飲 毒品		maja salari		
1/16/1986	经验 斯 尼斯				的 學學系統。	Long the section
1/23/1986	(5-40 to 10.7		Karr Marris - Louis and		SALES AND ADDRESS OF THE PARTY	Cheve entreads
1/30/1986 2/7/1986	CA THEAD	ent ent, and	第34 5 年 (19)	新行政公路中的	DATE OF LEAST	
		NAME OF		是这个体的。	de por pe	2, C (49)

			LAB pH			
Coffection Date	4-27-8 P2	Sa 4-27-8 P3	mpling Station 4-27-8 P4	ons 4-27-8 P8	4-27-8 P11	4-27-9, B H 53
2/20/1986 2/27/1986				阿尔姆尔斯 拉勒	以是有限的	ENSORMANIEZE DEL
3/6/1986 3/13/1986						
3/20/1986	STATE STATES		海州市公司联络 河南北	Remark State of		Man of the second second
3/27/1986 4/3/1986	8.1	10000000000000000000000000000000000000	8.2	英國於祖 的	WE SEE THE SEE	7.9
4/10/1986 4/17/1986	解解的と同様	統治傳統的首	经产品的	都經濟意思	助自愿制度	第187 章
4/24/1986				% (10X) (2X)		
5/1/1986 5/8/1986	图4.沙龙龙	(T) (E) (S) (E) (E)				
5/15/1986 5/23/1986					你这样的我们还要	Belleville Com
6/2/1986 6/5/1986		North St. Co.	t Section 1990			
6/12/1986	经市场及外市等证据	DUNINE RESERVE	E. (150 550), 17	MARINE STATE		1990年6年12日本
6/19/1986 6/26/1986	推了烈性主义					
6/30/1986 7/3/1986	7.6	7.2	重数。销售售	維持医療	大学	7.2
7/10/1986	一种原料		建 等的新型	都以為		阿斯尼亚特(Xx6)
7/17/1986 7/24/1986	的。1966年196日		阿罗斯尼		外阴系 医3	
7/31/1986 8/7/1986	管理系統學院					C.S. C.
8/15/1986 8/22/1986	and the second			Maria Taranga	and a place where	Made and the second
8/28/1986	AND DESCRIPTION OF THE PARTY OF					
9/4/1986 9/11/1986	国际宣传的		2013年11日本	经过的 国际	经过了证明	於自然的語彙的
9/18/1986 9/25/1986	8.6		8.5	以前是效应	没有和 选择	8.6
10/3/1986					图 到新,如	民國語為自然
11/24/1986 12/15/1986	8.5	有的指征的	8.2		の一種なり	8.5
1/3/1987 2/15/1987						是"我们就在学出市
3/23/1987 4/15/1987	7.8	8.1	RECORDER DE LA	建 观的经验	· (1) (1) (1) (1) (1)	7.4
5/5/1987	7.9		70			
6/13/1987 7/24/1987			7.9	新学的快感的新	er principle to a	7.4
9/2/1987 10/30/1987	7.6 8		7.8	7.9	7.9	7.3 7.4
11/15/1987 12/15/1987	图44.70		何に は 分別を		語的。随葉	
1/15/1991	A SHOWING	(ABUSE)	論。如於當		140名中国3	
2/15/1991 3/15/1991				1257	9/15/25/25/20/5	克克斯坦斯
4/27/1991 5/15/1991	8.1		8.1	M94593		7.9
6/24/1991 7/15/1991	8.2		8.2			8.1
8/25/1991	Semestronia anglesis					
9/15/1991 11/15/1991	8		8		COLUMN TURBER	7.7
12/15/1991 2/20/1996		1000	問題音響的影		器計可以級所繼	網形物則多數
4/29/1996 5/30/1996	经 用程度价格	2.12% 图1	門加州之前	产的社员的 20	ALC: NO PERSONS AND PROPERTY OF THE PERSONS AND PERSON	性公門被以西部
6/30/1996	7:77	國軍力包置	7.75	B的事业组织。	的外包的影響	
7/30/1996 8/31/1996	7.94	10.30	7.88	Rec la Colo		7.91
9/20/1996 10/11/1996	7.6	阿斯斯科教 语	7.6	斯拉斯斯斯 斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克		7.24
4/7/1999 5/31/1999	7.51	7.62	(Destroyee Com			7.1
6/30/1999	7.89	7.8				7.38
7/29/1999 8/29/1999	7.76 7.6	7.72 7.81				7:58 7:36
9/16/1999 9/27/1999	8.08	7.86 8.12	7.9			7.48 8.1

Appendix L

Table of Conductivity SNP Data

Callection (page 1)	591	11.0								B CONDI	CTIVITY /	thos/only					
The color of the										Samol	ing Statio	ns					
11 11 11 12 12 12 12 12		.:.5	343	4-13	2 4-13	4-29	4-27-1 P1	4-27-1 F2	4-27-1 P3	4-27-1 P4	4-27-1 P5	4 27-1 P5	4-27-1 P7	4-27-1 P8	4-27-1 PG	4-27-1 P10	4-27-2 Pt
11 12 13 13 13 13 13 13		11				7,5		STORAGE	67.01 PK Up C	062 330	710000	100 May 15	经正式工程 斯拉		100 100 100 100 100 100 100 100 100 100		100000000000000000000000000000000000000
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271185		2000			12.40	SUPERIOR STATE	250			72	3 0	(中華)	語語影響	建筑的	345	配為經濟	280
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1972 1972		HCMAN			E ESTABLISM	licon			- Carolina Control								
111188		46.000			E TURNET	263	上 五次計 物形型		A CONTRACTOR		100			***		2000年	(1) (1) (1)
### ### ### ### ### ### ### ### ### ##	3/1/1985	11.20	243		海湖	2	\$220 F (4)		Standard (1. 16. 21		CAMPAGE.	國際的軍為	小河南部小岸	对解放影響	場。從是	BERKE.
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Main		.000		- question	LS.	2.50			Page Street	PER PER PER				KARRE	是此時間發	经出现的实施 证	
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6/24/1885		160		OF SERVICE	3520	140	指数型相EPA	苏 特的最高的	n 20 "		201	地震影響	STATE	No. of Contract of		800多年8世	的為使意
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8/2/1985				- CALL	- Comment		Partition of the	Take Sept (see	EVARIOUS PER		A CHARLES	SAME STATE OF THE SAME STATE O	THE PART OF	68 OF CHEST	1	NAME OF THE OWNER,	2012/2025/7
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11/29/1985		335		φ <u>.</u>	(528)	1200	360	图 4 图	ert.		OF THE PARTY.	And the	東京語		460	1500-00-00	图图 17 图像
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Canadian Tungsten Mining Corporation Ltd. - Licence #N3L2-0004 Surveillance Network Program

								LA	B CONDU	CTIVITY (u	hos/cm)		-			
8									Sampli	ng Station	IS					
Collection Date	4-5	1∗હે					4-27-1 P2					4-27-1 P7	4-27-1 P3	4-27-1 PG	4-27-1 P10	27-2 PI
6/12/1986	230			保之間	220	1		學學學學	4.2	A STATE OF		and the later of		STREET, STREET,		,这种 等
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7/3/1986	100 Per	486	ټ. سنه	200	2466		100000000000000000000000000000000000000		5000	D 30		Table Street, British	Part of the last	CONTRACTOR	E4180 2. 1	d2/403/493
7/10/1986		546														Comment of the A
7/17/1986	126	545	總總		126	是影響觀	网络	是於原本學	多 學為19	生 1	かる場合	公司政治教	国国际信息	因此知识的	的知识的	也是是
7/24/1986		420														
7/31/1986	包使是	955		10.4	Segret.	開始的問題	ERMAN	国际自由100	學院院	理學院認	位等基础的	AND STORY		是經濟的对	公司,这一次企业	1100 1990
8/7/1986 8/15/1986	170	1620 600		15 Hall	160		MARCH TRANSPORT	Af worth biress	CONTRACTOR OF THE PARTY OF THE	Service Management	Contract which was	CONTRACTOR OF STREET	がままる (ARD) (2000)			And the Party of Street, or other Designation of the Party of the Part
8/22/1986	antico:	530	WZ MZ NO	SECTION 2	100	MICHEN COM	CHROMETER	Remain and the	AND THE REPARTS OF	COLUMN TO SERVE		16年16年16		THE REPORT OF THE PARTY.	N. CARLES CO.	CONTRACTOR SERVICE
8/28/1986	(SECTION)	560	\$100.00	E 53	Wales	ALCOHOLD IN	100000000000	CELE SERVICE	10000000000000000000000000000000000000	1057SW357	55.078.60.028		推动 2005年3月	50 发现 400	HUNEYUS HER	2014 CO. H.
9/4/1986	S. Contracting	2400					THE RESERVE OF THE PARTY OF THE		100							
9/11/1986	250	会会し	048		230	此内设计传统				[回接][[图	學學學學	传写中张 政				
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9/25/1986	440	750			100	意とと	See Andrews	過ぎる田を実施	KIND PART	0.2 15 65	Second Second	本的建學有問題	Of the last	ST (STANKE)		应品。是这
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12/15/1986	155	# 60 SE	370	N WOLLD	135	THE PERSON NAMED IN	AND REAL PROPERTY.	AND DESCRIPTION OF THE PARTY.	STATE OF THE PARTY	Mark May Decision in	HALL STANGEN	AND SELECTION OF SELECTION	400	THE STREET, SQUARE,		255
1/3/1987	300	the same	650	100	260	A CONTRACTOR	27 To 70 Tab	がないない	ching/alan		300 HARDS	经验 为学生协定	2011460762	THE REAL PROPERTY.		
2/15/1987	325	STATE STATE	670	Sanc Come	370		Control of Control of Control	POTANCE WAS DIVINE	to any and a supposite	CONTRACTOR STATE	The second second second	CHICLESCON TERRORIS	CHARLES SHOWN	THE REAL PROPERTY.	er model programme	CONTRACTOR DOS. O.
3/23/1987	310	1000	650	356	280	机和超级区的	1100	148800000000000000000000000000000000000	of Strains	The Wall of the Land		图60000	1100	Sub-light Color	2100	CONTRACTOR OF THE PARTY OF THE
4/15/1987	310		630		270											The second second
5/5/1987	270	6.8	660	1	250	海(安)相位	1000	100	(40 miles	从中国人员		造產品額在	李明	語を開発	WITCH STATE	美国
6/13/1987	180		580		160	- 5	1100						1100			600
7/24/1987	120	或规定	600	1	120	(特)(可能)	心理的思熱			任的問題			政権副裁	SHOW HOLL	在影響計畫展	李规则的
9/2/1987	180		510		160	1120				1120				1120		
10/30/1987	220	. 'E 7	580	部區	220	计图图	1440	N. S. F. C. P.	The same	經復學的場	個相談的数	17. YES	1100	經常問題的	1100	400
11/15/1987	280	Self-model	620	****	240	Broad Additional and to	Printed to Street		2070 J. N. W.	Name (1997)	W-1000000000000000000000000000000000000				and the same of the same of	
12/15/1987	270	SPES S	750	双角	1300	和高麗語為	BOURS CHIE		但則是問題	在深田岛沙里	A Part of		HUMAN,			(10 a)
1/15/1991	270 327	Section 2	613	1.752558m.E	306	Walter Street, and	GOLD STATE	District Control	Manager World	Street and the designation of		Marine Marin Committee	and the latest to the	and the second division in	and the second s	and the second second
2/15/1991 3/15/1991	309		634 612		324	MANAGEMENT OF THE PARTY.	Bert anan	HOUSE BRIDE	5月1日日日	在900世纪 国数800				4 - 24		MARKS E.
4/27/1991	289		642	25000	270	SERVICE NAME	558		CONTRACTOR MADE	10 A 22 A		536	DANGER PARK	Name of the last	701	256
5/15/1991	234	AND DESIGNATION OF THE PARTY OF	584	ACCES.	225	TOP THE PERSON NAMED IN	HOME CALCULATION	MINISTER AND IN	D. All High P. S. Ville	PTWB DESKURA		330.	THE REAL PROPERTY.	O CONTRACTOR OF	Water Colored	200
6/24/1991	155	SERIO Y	546	361		(高的) 5-12年末	UNION THE		582	100		of april 19	905	S L	Service Control	272
7/15/1991	139	The Parties of the Pa	526	361	146					St. Const. Married St. Co.		The state of the state of	000	POTENTIAL PROPERTY.	DO COMPANION OF THE	
8/25/1991	206	\$2.5 TO	536		-198		PAR BOR	88 Koza		TANK TO SE		STATE STATE	STATE OF STATE OF		Section 1	100 E 100 E
9/15/1991	235		545	358	223											
11/4/1991	314	T.	648	387	298	554		电影的图像	用於本物語	物際政治を持	942		9.7.42	門門は	2270	282
12/15/1991	322		650		300		£									
2/20/1996	335	~ P[1]	790	3	328	SET LIVE	28 1927 14	(金融)	步是推炼	部分では			2000年			
4/29/1996	200		82		316											
5/30/1996	195	3	758		214	ES ES	200 / 200 0	的图象与图片	588	隐地域	864	D.		A LAND	5810	建筑
6/30/1996	120	The state of the s	430		195			and the same		PRINTED 100		of the water of the				302
7/30/1996	31.53	7 77	696	386	164	SHANNING.		S. Bride	648	医明 四层		经 等等 这	1050	1000	4260	308
8/31/1996	110	MON.OCH	390		110	r province and					ANY DESCRIPTION	Michigan Police	Ir Norwaldware, and		NAME OF TAXABLE PARTY.	N/AVG/TENS/A
9/20/1996	150	Charles of	340		1130	SCHOOL SCHOOL	250	The state of the s	SPECIAL DESIGNATION OF THE PERSON OF THE PER	12000年1	5255.85		· Fr	E SAIN	4000	100 Miles
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5/31/1999	271		816	220			738	Company of the last	10	638			1		CONTRACTOR OF CASE OF	
6/30/1999	165	Quinta a	661		166	9" 24 65	700	CONSTRUCTION OF	大為此級物產者	USU MANUE	State of the State	F. Crard	Wille.	ENGINE SING	The second	338
7/29/1999	160	and the same of	677	372	151			748	Administration of the Control				1030	701		338
8/29/1999	198		664	388	1190			A STATE OF THE STA	STATE OF THE	682	1230	805	1000	701	25	348
9/16/1999	236		668	391	225		863	784	703							341
9/27/1999	244	湖北	680	393	239	医 居在 图	24 Kap	87 4	13	964	1240	1140	100	PERMI	THE LIVE T	省 學學

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1/4/1985	112752352	4152 (652 ES)		0.2162189	1-31-3399	3F27+2 P7	1027021P8	4-27-3 P1	4-27-3 Pg	4-27-3 P3	4-27-3 P5	4-27-3 P6	4-27-3 P8	4-27: P1	4-27-4 P2
1/11/1985 1/18/1985		的潜水管的	使到时是整整	Constitution of the second	152 35 mg	1965年1966	ALC: N		化型源		海岸海水县	的四大大学的	E (2) 180		
1/21/1985			280	ES ALL	260	0.000	可加的歷史	350		1000年			Recorded to	EWS. B. ST.	345
1/25/1985 2/1/1985	800 PM		N. Santa			AMERICA	Topic State	Sala and	Kara I		SELVE BY IN	To be to be	BALLE TO SE		ACC 155-00
2/8/1985 2/15/1985		PERSONAL PROPERTY.	Carrier Car			TO STATE OF STREET	NOTE NOTE OF	A SOUTH PROPERTY.	STATISTICS		Support State	San Parish San	States Assess	Part Contract	GE OF THE PARTY AND ADDRESS OF THE PARTY AND A
2/22/1985	Manager of the control		Character wheels		BOOT SHOULD BE STORE	Annual Contraction			Delen Ferberolisis	I PERSONAL PROPERTY AND INC.	an Agrang Server		MARCH CORNEY	ESPERINGEN	14 26 44
3/1/1985 3/8/1985	图图 经净证券	引带的群位性	大学学学生的		A STATE OF THE STA	包括"5部型"	是一个				医重心性结合	山河北部	被的發展到	274	2000年
3/15/1985 3/22/1985			以一位的			24年7月		38/NUE2	為自己						· A
3/25/1985	Strong	Dist 生	305	医发育 医黄	270	基州长 民	E 1005	360	10 A A A	記事がまま	高岭岭	160	"智能和政	TAUL SA	365
3/29/1985 4/5/1985				短等制线		28.37	44280A		A 2 5 4 5			AL ARBUM		S. (1982-174)	No establish
4/12/1985 4/22/1985					100 (100 mile)		值的是规则		MOS CON IS	(A. 2020) 160		Property and the latest	Contract Contract	A Print of the Colo	
4/26/1985			and the second second			AND DEPOSITION OF		ALPERT DE LE		CERCE - PER	DOTAL HARDING HA	RODEO RODANIA	Elitali Rüdeller		
5/3/1985 5/10/1985	THE PERSON NAMED IN			国際を受ける		11 44 1	70000000000000000000000000000000000000	是四個語彙科學		是是是一种			共享党员(医)	記載の記述	10000000000000000000000000000000000000
5/17/1985 5/24/1985			发现的				中國的關係	CHARLES!	100000		問題網際			HIERON	7 60
5/27/1985		新型流	295	经证据证明		345	THE PARTY OF	335		**		12.22			THE REAL PROPERTY.
5/31/1985 6/7/1985	i Li								ALC: NO.	经工工	a Norway		2 10 10 50		
6/14/1985 6/24/1985		2 m 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	沙河原省以 格雷	265,300,00	The state of	STATE OF THE PARTY	(a) \$ 30 C (1) (b)	BEST TOTAL	A	11		Top (C			FLORE SPO
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7/12/1985						Seeman Wild	SECTION SECTION		STATE OF THE PARTY.	医糖品 1	阿州州市		10000000000000000000000000000000000000		多国际自然
7/26/1985 8/2/1985		(1) 为人的			の企業の企	NEW TANKS	中的原理。	STATE OF STA	₹4.25	一个一种的原理	20人一個歌	* * * * * * * * * * * * * * * * * * *		Jet .	行民物的
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8/16/1985				路经图		美心 思想	生物等	200		235		275	220	1	355
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7/3/1986	計學學院	皇安沙君宗宣	医 上线	的情况。	S. 184	朝的相談和	达到地流	是經濟學學	的信仰	电影图			TO THE REAL	在新兴	图 空空
7/10/1986 7/17/1986		STATE OF THE PARTY	STORE STORY AND IN		E IN COLUMN TO	ATTERNATURE OF		CHORAGE COR		ALTERNATION OF	SOMEON SERVICE	TO ANALES AND ADDRESS.	postoria in monto. Si	NEW COLUMN	COLUMN COLUMN TO
7/24/1986	AUM PAGE 77.65-167	CONTRACTOR CONTRACT	AND ALTERNATION	S-Callannings	ORNESTME ONLY	SECRETARIES SEC	CHARLES AND A COL	产业的企业的	A SERVICE	DEMPLOY	SERVICE PROPERTY.	NAME OF STREET		AND PERSON	自然的影響日第52
7/31/1986			Total Sound		医艾克氏虫		省域的 现在	原理なる	SERVICE SERVICE	地名和西非	正解的	PASSAGE	おいままで	THE PARK	新 提出其104
8/7/1986		Charles of the later of the lat		Car Eventable	entert melven										
8/15/1986 8/22/1986	STATISTICS OF STATE	A STATE OF THE STA	STANDARD STANDARD	の変数の数型の			的影響的		STATE OF STREET	心内部之际			得於特別使用	建筑的建筑	計算研究
8/28/1986	起来完全45		自然物類			Section 1997	a Minnes	州岛等。即位	では、自然の	CALTURA DE	Estenció	SERVICE AND INC.	Asters divis	建筑的 的故事	建 国的人社会主义
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9/25/1986		82 10 3000	ALCOHOLD TO THE	第18章奉献	STATISTICS AND ADDRESS OF THE PARTY OF THE P	· 14 (金田)	250 270 60	210	DECEMBER .	Salar Salar	BURNING	PER STATE OF	STORAGE PARTY	Designation.	201
10/3/1986			NA STATE OF THE PARTY.	No. of Contraction	One-out-treatment	A CONTRACTOR OF THE PARTY	TATE CONTRACTOR	P BOOK STATE	E-S-HELPETSHIP	CONTRACTOR AND AND ADDRESS.	and deline True	COMPANY THE P		SHEAT OF STREET ST	STATE OF THE PARTY
11/24/1986	的是是		170	PART SER	145	A STATE OF	解與物質	160	175	医肾胱病	制度原建	阿尔斯斯		经过程的	と
12/15/1986	A MARINE WATER	(National Scientific S	SHEWARTHEN.	THE CONTRACT		Walt 1295, 250	A BOARD BOARD BOARD	STORY DESCRIPTION			(ADD DESCRIPTION OF	Sandrata Arestantino	ensometations	de la medicamiento de la constitución de la constit	STREET, CONTROL OF THE PARTY OF
1/3/1987 2/15/1987	NEW THE PARTY OF T	公司公司公司公司	是是安全的			美国新疆外	ATT PORT OF STREET		(四年,304,40%		新华发展的	建筑市的200 000	entransiste.		国际教育社
3/23/1987	THE REPORT OF	SUFER VANCES	强烈的"石"等		NAME OF THE OWNER.	PASSAR NAS	2000	290	290	80-3(0-1-2/C)	Participation S.P.	400	100 S 100 S 100 S	490	620
4/15/1987				-						Section 19 and 1	Charles of the San	700	ADD THE PROPERTY OF THE	manness of Supplier	Sam OZO HAS
5/5/1987	的過程的	美洲和100 0000	State of the last	語がは動物	经的特殊	STRIP COURSE	The state of	學可以可可以		建制智慧	月19日本	沙湖	Day Street, S.	TO RESIDENT	A 75 %
6/13/1987			340		490			270	270			260		540	
7/24/1987	多 数多数数	领的部分	10万万人			Section 1	另加能認可能	國際的領	TO THE PARTY	全部的 [[]]	書き	LANGER	和严酷的	国家农民的	
9/2/1987	160	SOURCE STATE	490	220	400		360	290	310	tot on manual ar	and make the	360	summed the state of	460	520
10/30/1987 11/15/1987	SCHOOL STREET, SALES	Inserting Septiment	Eng.400 and	GENERAL REPORT	PER ACCION	E LEWIS CHARLES	HE HISTORY ROLL	320	320		SERVICE STATE	320	THE RESIDENT	600	拉图罗/图
12/15/1987	BAT HEAT WE	植物效应	COLD BURN	Application of the same	REAL PROPERTY	A STATE OF LAND		医高层线		Control Indian	Company State	COLOR DE NOME	STATE OF THE PARTY.	100 EX 10	图表现象的智
1/15/1991	Company of the Compan	011110111111111111111111111111111111111					1 Town I have green 2	Action in the Section in the Section	No. of Street,	G S BOOK OF THE STREET	median and and	SCHOOL SALESSON	or District Selection	The second second	Section Control of the Control of th
2/15/1991		地震的伦	有 別 和 別 的 的 の の の の の の の の の の の の の	が言語は	為與國際部	ELECTION		が経過しませた。	STATE OF	(理) (2770)	阿丁省 亚洲		2.5kg P(30)	" "	19:40
3/15/1991															
4/27/1991	經開建正實施	经产业总	286	物的學習說	知識的學術	328	的复数形式	218	是經濟學	的是在这些几	是是當時	234	232	515	(A) William (A)
5/15/1991 6/24/1991	Georgia estata	SAUNE VARIOUS	278	ungan maynutak i	2010 22 November 1	286	Marie English	228	TO THE COLOR NAME	CERAMINA THE CO	Para Carlon	242	316	512	CONTRACTOR OF THE PARTY OF THE
7/15/1991	STEEL SPRINGERS COLUMN	an increasing a	GIRN 27 G Rolp. 6	in Language of Maria	SCHOOL OFFICE	200 400		220	CONTRACTOR OF STREET	STATE OF THE PARTY	Ship to the same	Z-L	210	原原(O)(Z)(原)	2828BBBBBB
8/25/1991	40%地位为	《建造画》的	阿勒斯公敦	展加姆	图	PRINCE SE	起源山市共和	经运动的		SEAT (1988)				ACTOR SOME	THE PARTY OF
9/15/1991															
11/4/1991	对外的	的包含	283	经有时间 经	医路路 测度	305	是解析學學的	251	學的語彙	2000年200	阿斯里尼	270	268	543	医性性
12/15/1991 2/20/1996	STOTON PROFIT		Name and Address	Guerra des de P	2 in 10 miles at 10		100 miles	OF A CONTRACT OF STATE	Committee and the	- Associated	Fre Laborator and		Company of the same of the sam	Barrier British	IN COLUMN TO THE
4/29/1996	BUHUKARA	经产业 国际工		区以及农用业	10万円 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	東京和の開発が	SAME SERVICE	\$500.55E-150	经验的	是为此的知识的	新国际公司			AND THE	量。在次数
5/30/1996	65 550		NEW TOTAL			55 MW CO (AV)		282	With the same	7-69-11-0		292	264	414	(ASSESSED BY
6/30/1996	COMMON ACTION OF STREET			304		306	And the state of the state of		STATE OF THE PARTY	Market House, S. Sand	A CONTRACTOR OF THE PARTY OF TH			STORE A. B. Gopta	A CONTRACTOR OF THE PARTY OF
7/30/1996	网络知识的	はの語が記	303	陰病		329	研究性的	285	100		力をいめると	294	293	494	國際等級
8/31/1996															
9/20/1996	会のない。	***		A Part of	PERMIT				是是他们的	8034年底	HE HE	(6) 数据	图 图	阿拉斯斯	后在在上的时
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6/30/1999	的社会会会	主作型00 000	10000000000000000000000000000000000000	302	311	2000	Language Ser	200	STATE OF THE PARTY	EN WINDS	STATE OF THE		经过滤器 的		200
7/29/1999		315			317			200							
8/29/1999	是自然學學	299	301	307	新加州	10000000000000000000000000000000000000		200	A CONTRACTOR	62 200	是學生	思想能是		469	
9/16/1999	of the section of the Land	la l	309	000	318		Name of the last	300	MATERIA MATERIA		Assessment of the last		DESCRIPTION OF THE PARTY OF THE		PARTITION OF THE PARTIT
9/27/1999	STATE STATES	311	September 1	320	ph. Shirt As			170		CONTRACTOR OF STREET	AND STREET	A STATE OF THE PARTY.	DE TOTAL	472	THE VALUE OF

					LAR	CONDIAC	TIVITY (uh	as/cm)		2					
	Y827, 20			22.12		Samplin	a Stations								
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1/11/1985 1/18/1985								Autor S	內國的發明總	网络加拉	地区医别战	北京學院	达 阿阿里	以過少	No line
1/21/1985	网络拉斯	1480 00 20	410			國際國	490	215	The Street		30000000000000000000000000000000000000	National Co.	6. KE ME		建 建物层
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2/22/1985	PROPERTY.	and the same of th		4994770950		DESCRIPTION OF THE PERSONS		N. P. Ballander		TOTAL ASSESSED.	是是一种经验的	Control of the Control	THE SECOND	250 E 1215	
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5/17/1985			140 7	Section 1		和多少的程序	17132520	den		2. 国民市总		進物學	學是經濟計學		建 加州建建
5/24/1985 5/27/1985	360	k t		465		图 6 6 10 10 10	650	150				Marie 186	美術等的與自己	Al CONTROL	3125
5/31/1985 6/7/1985	(SSMERIE)					1400			Market Inches	(河) 开游			0.000		ACULT LANGE
6/14/1985			altimas Segmenti		STREET, STORY	S TANK			OF SPECIFICATION				and the state of t	CHIES HOW	のである。
6/24/1985 6/28/1985		AL SEP PR	CEL SEE	51" 2	THE PROPERTY OF			SELECT	The season of	認高的生物	東京の日本の大学	SHELLING .	以	阿拉斯斯	
7/5/1985 7/12/1985			自然的學術學					国际作组员	10 生化	特别是		SHIP SHIP		田をかせまり	万 治學能
7/26/1985			STOR S	国际 总统		74 L		$(0,v) \in u$	LIZE GARAGE	物 。 点层积极			经 有价值的	P 72/19 20	
8/2/1985 8/9/1985		ESI BANK T	MAC SON	The state of	54 (AV)	050883		5 数器或医療规	SVESTICA:	O DO THE	STATE AND ST	Harris World	1110752501	科斯瓦姆加强	169 075
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8/23/1985				NO. OF THE PERSONS PERSONS	COLUMB DESCRIPTION OF THE PERSON OF THE PERS		ENGINEER LAN	Acres de la company		E-82 9FO or 62880	D HARRIST STORY	語書書の方面が	SAMEDENER	は予める	CALCADA IN
8/30/1985 9/6/1985		建筑	MANUEL			美国建筑	34 51	1000年至1000年	364	WIT SOLLS	中的基础特别	認為影響物		別問為 編	
9/13/1985 9/20/1985	经场形态	20 (a) (b)	THE REST	是包裹的人。			223	THE SECOND		網系及。河	N. P. ST.		爱好量 多是当	24年14年	
9/24/1985	能加速管	高さらは形式	472	實生社会排		7. 计号码路	570	Ball and	* India (19)			145	5.60003	11 100	232
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11/1/1985 11/8/1985	\$340 TWO		A STATE	200000			SALEDY BY	ASSESSED NO.	(三) 古沙特里		相對於。對此,	design man	《李明 》	83首用456	
11/15/1985 11/22/1985	化学和共享经	1 1000	声音频等	THE PARTY					1 312		加坡的		的是如何问		\$\$ \tau \tau \tau
11/25/1985			600		医玻璃器	600	的影響和	的概念			235	E2945.00	FOEW, S.	The Land	283
11/29/1985 12/6/1985	郭姆萨量	直接地理技	PARTIE NAME OF THE PARTY OF THE	個別知识	MESTING OF	建	CHARLE	海京部門京安島		2000	STOCKER	are surren			
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1/9/1986 1/16/1986	增加各种系统				和金融的2000	CHAMILE		的學名與如	州西 沙克克		基		を表現を	50 700 天地	第 個
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1/30/1986 2/7/1986	Marie Letteral	1764 A	10000		RURASAR			932000	Salved Av	2110	tile of order			10 m	
2/13/1986 2/20/1986	新新生物品	A Section 1		or the same	ALCOHOL STATE	C. 1000 1078		Constant of the last of the la			Water &			2010	
2/27/1986	THE RESERVE OF THE PARTY OF THE			The second second			Samuel Brown							A COLUMN TO LOND	CONTRACTOR SERVICE
3/6/1986 3/13/1986		A CARROLL			15年10日日		经加强销	CR MEDICAL		0.1795.614	A STATE OF THE PARTY.		明 通過表	阿索地區	由原用的技
3/20/1986 3/27/1986	1 ji		美国的	學是學	MAZK ST			SERVICE OF STREET	(at the	知知為	230	のという場合	Time de	18-70	270
4/3/1986	类的种种			7180 STEEL	A CHARLES		图 246 29			医线 侧点	230		7.00克尼		270
4/10/1986 4/17/1986	22 DAZ		第360 23)。	TO SECURE			d 355 (c)	14年120年	19 May 1938			Witzense	THE REAL PROPERTY.	e (ANJJE	
4/24/1986 5/1/1986		arus II king	CONC.				September 1	ALCO VICTOR						NAMES OF TAXABLE	
5/8/1986						maticing Englishing	10 May 10 Ma								天 南部 经区外
5/15/1986 5/23/1986		el su manda	经过程		T-WELLSTEE	Section 1	H	100	4000		可數裁學	PRINCIPAL PRINCI	\$1.	TO LEASE LAND	
6/2/1986 6/5/1986	25-77-2	E WAR	25000055		19.25 A			\$1.00 P. L.	er serve		3(1)(EL)(1)	restlere:	ASSESSED AND ADDRESS OF THE PARTY OF THE PAR	via seri	
0/3/1986			St. House	100	200 T.										

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Collection Date		4-27-4 P4		4-27-1 P6		4-27-4 P8	Stations 4-27-4 PG	4-27-5 P1		4-27-5 P3	4-27-5 P4	4-27-5 P5			
6/12/1986 6/19/1986		的国本的作品			到於配置數益		THE REAL PROPERTY.	I BONY BONG	地位的			学者を由こ	HE REST	相對於於計	BRIDSTER
6/26/1986	建 图175	(nu 20	網域地震	的生物出	追溯建筑	577	溶血管	医	想影響	E. 45.58		图 图 图 图 图	653485		
6/30/1986 7/3/1986		452	STATE OF STREET	CONTRACTOR NAME OF THE PARTY N		COLUMN TO THE OWNER OF THE OWNER	475		153	131	40-D TOTAL OF THE REAL PROPERTY.		CONTRACTOR OF THE PARTY OF THE	2007025420-4040	183
7/10/1986	DESCRIPTION OF STREET	SERVICE STREET	ASSESSMENT NO. NO.	242 0 242	AND DESCRIPTION OF THE PERSON NAMED IN	OSS STREET	1940 A 1940 A 1941	Sugar String Co.	A PARTY OF THE PAR			10/ Th 15 W	等性學者與功力		CHARLES AND A
7/17/1986		营销		2000年		新聞開開	少维制的高	學中學	が表別により	网络不能性	ERANCE OF	12 20 13	West grad	BVSAN	
7/24/1986 7/31/1986		SHEET SEED	EDGE DE SERVICE	As bearings	PASSELLE VALUE OF	AF WELL STORY	10070000000		STATES THE STATES OF	The second second		STORES AND		ASSESSMENT OF THE PARTY OF THE	Supplied Control
8/7/1986	THE SHARE THE SHARE SHARE SHARE	NATIONAL PROPERTY.	1 THE PARTY NAMED IN	STATE OF THE STATE	COLUMN TO SERVICE	AH SERBOASSIII DAS	THE OWNER AND DE	THE PARTY OF	ena timbe	100000000000000000000000000000000000000	AL RESIDENCE OF		1000 May 1000	THE REAL PROPERTY.	F1(1) (95 H)
8/15/1986	古代の日本	以完全的社	海拉爾拉利	在1986年	化部。周知的	测数面 向	集出地。		(原)特別	新加州	能够被阻碍	能能能等的研究	被認為語彙或	的時期的影響	A 100 04
8/22/1986 8/28/1986	有数型型等和	Marie State Park	大	methods inter	No.	0.2000年1月1日	STATE STATE OF	W NEWSTAN	software team			TOTAL	** *** *** ***	STREET, STREET	William Co.
9/4/1986	Trap delication to the	MINISTER STATES		- ECHICARIA SPAIC	Section and Parliage Country	Comments (Secretary	A Control of Assessment	THE PERSON NAMED IN	SOMETIME	Registrative Name (STREET, STREET, ST.	Committee of State	STREET, STREET	DESPIRATO ASS	SECREPTION STATES
9/11/1986 9/18/1986	the the said	以为	437	學。逐步	物質的		471		190		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	阿里斯斯斯斯	100公民公司20	のない。	是知道,以
9/25/1986	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PARS WIN	437	501 State #2			763560500	· 是一个	190 23070598	和海绵 经股		SWATTER STATE	Electric Version	STATE OF THE PARTY	195
10/3/1986											**************************************				A December 11 September 1
11/24/1986 12/15/1986	320	新加热	MENT AND A	435	四的相談	380	中华的	次条件的 是自		學學的學	非 學	2008年	De la la	經濟學的	
1/3/1987	以邻种的	A STATE OF THE PARTY OF	SAPARAS.	R'Indiana	STEEL STREET	ACCIONATION OF	MS ANDRESS	5.79 Y	A Maria Earlis	(高) 医神经性	Settle slig	eletin and the	性的影響的	AND DESCRIPTION OF A	学
2/15/1987												Cas C. I Manifest Act of	CANCEL STREET		The state of the s
3/23/1987	国家出生	CAST TO STATE OF	多四個	水油量水	在 最初的产品。只	780	用位998%	理論的	经验的	中期認度可多的		290	230	291	是
4/15/1987 5/5/1987	SKALL WAY		0.0000000000	A A STATE OF THE S				CONTRACTOR OF THE	STEAMON ACT	STRAFFIE		E TORY	CO MARKS AND ADDRESS	Was a second	ROUGH RESOURCE
6/13/1987		730	The state of the s		ANNIPORANCISA	730	Fat from de area		STATE WATER	Leboratory Apic		290	260	200	APPRILITATION .
7/24/1987	關係從於	第二段 4 版	(人物国外)人					100000	218 24 14	A ROLL				拉到的	可以可以
9/2/1987	and the second	800	5 - 10 0 and 15 5 m			420	720	DIVAMOR STATE				360	300		
10/30/1987 11/15/1987	Service Control	OUD	all the second	THE ROLL OF THE PARTY OF THE PA	THE PERSON	42U		DESCRIPTION OF THE PERSON OF T	特別的政	经 国际国际	数据家公司	290	300		S COME
12/15/1987	NATURE L	AND THE REAL PROPERTY.	MESSESSESSESSESSESSESSESSESSESSESSESSESS	Diviniti			RESIDENCE OF	DESCRIPTION OF THE PARTY OF THE	A PROTEIN	THE STATE					
1/15/1991	manufacture of the second														
2/15/1991 3/15/1991	建 1940	というないない	District Control	理能なりを持つ時		经过来 从经过多数		声的 海绵		自然表现	温度は高温に	经规则的	經濟學也就得	经运动运动	
4/27/1991	的 在安静地位	爱1668年	360	STREET, STREET,	电话和图图	のおり	309	210	表示的	NAME OF THE OWNER, THE	10000000000000000000000000000000000000	三型a Fat	新区省区 国	· 公司 · 四 · 公 · ·	221
5/15/1991															
6/24/1991	NAME OF THE OWNER, OWNER, OWNER, OWNER,	ARRESTS (SIST)	420	BACK TO	影響機能	MAN TO THE REAL PROPERTY.	312	225	23000			Mercy E	跨到海洋	智行。斯	233
7/15/1991 8/25/1991	enterna.		SUCCESSION IN		MARKS CONTROL	Armet Month Co	STEP STEP STORY	e seammente	SCHOOL BUILDING	neal water	SAY DESCRIPTION OF THE PARTY OF	COLUMN TO A PROPERTY.	DATES ROOM	N2 主が出版を見るが	自动现在时
9/15/1991	St Cown was defined with 1	CONTRACT STREET, SALVE	Car I was a series of				CONTRACTOR CONTRACTOR	The Control of the Co	A STATE OF THE PARTY OF THE PAR	THE STREET, ST			encontraction of	NO. RESIDENCE	SERVER 1201-2413
11/4/1991	為国際的	等では国	415	はいまれて	TOWN DIS	加速認識師	326	185		Service of the servic		CONTRACTO	(智)短	STATE OF THE STATE OF	261
12/15/1991 2/20/1996	Mind Property (2000	DESCRIPTION OF THE PARTY OF THE	SECRETARIA AND	COURSE LESSONS	at the state of the	THE RESERVE	NASARS/USES/CO	STREET,		THE PARTY AND THE PARTY.		W 750 4 114 F 175	to a series of a	THE COLUMN TWO
4/29/1996	IN STREET	a covere see	DESCRIPTION OF THE PARTY OF THE	Application of the state of the	THE REAL PROPERTY.	STANSONSMEN.		AMERICAN PRINTS	PERSON		是的可能的	THE STATE OF THE	る場合で	是美国 (100)	中国 图
5/30/1996	能用品品	396	場合の企	354		HER 15.50		274	创始。如德	机管温	III. Store		洲北线	计是数据	261
6/30/1996	***************************************														
7/30/1996 8/31/1996	10000000000000000000000000000000000000	SHAP THE	474	安办是基础的	和他然此种	613 E	327	236		2000年					276
9/20/1996	MENUSY N	市场社会制	建筑运输	新加州	見反響感情		三金属	法国际特别	W. C. LANGE	ALC: UNITED STATES		55 TO 100	E-64 (198)	WASH TON	2732
10/11/1996			340				200	110							110
4/7/1999	2000年中央公司		G PANA D	的 學學學	建的机构成	思明以前的		COLUMN TO A STATE OF THE PARTY	局面是對對於				品型 瓜		原基础的
5/31/1999 6/30/1999	经验	CONSTRUCTION.	STEP SERVE	389	356	327	and the sea	234	STATES COL			Ar printer by	Harry Strawn		Chromo mo
7/29/1999				400	363	327		256			ALC: THE CASE OF	Her Spinsonill		and the same of	
8/29/1999	474	477	拉马 尼克斯	THE REAL PROPERTY.	建筑	合型图像活	WENE, N	271	THE REAL PROPERTY.		加速		造成過程	問題都是於	对性成名
9/16/1999 9/27/1999	447	445	RACE SE	358	340	318		254 287		CONTROL OF THE REAL PROPERTY.	doct opposit on	SA TA NAME	在不必然和公	9.57 (2000)	CALL SON STORY
3/2// (999	Marie Park	aparting a second	CONTRACTOR OF THE PARTY OF THE	THE PARTY NAMED IN		NAME OF THE PARTY OF	and the second	THE STATE OF THE S	and second desired	and the same of th			STATE STATE	THE PERSON NAMED IN	100

	0 150			1.00	B ANALYS	IS Julyos Isr	**)					
					Sampling	Stations						
Collection Date 1/4/1985	4-27-5 P10	4-27-5 P11	4-27-5 P13	4/27/5 P1	4-27-6 P3	4-27-6 P3	4-27-5 P.	4-27-7 P1	4-27-7 P2	4-27-7 P5	4-27-7 P4	4-27-7 PG
1/11/1985 1/18/1985	A LONG THE	No.		EL CARLO	Section 6				是是一个		50	的种种思数
1/21/1985	196 8 4 4 7	1		250	400	415		300	(四) 医		A LONG	280
1/25/1985 2/1/1985	34.19 配包的			Carl Andrews	48.93 560		(NEW TRANSPORT		Chronica	F RESPUESS	SUSTRIBUTED OF	STEEL ST
2/8/1985 2/15/1985	prosession to a	No.		Sillia con Para de aces			A STATE OF THE PARTY OF T				to the first section	arondorma.
2/22/1985	DWGDRGHRHRROR	206.11	ATTENDED FOR			a Control of		defendable.				
3/1/1985 3/8/1985	采集 第2章		A STATE OF	關於學術能和		THE NUMBER	福田東京 原	直线: [2]	的。因此	No.	PER BOA	是我这种过程的
3/15/1985 3/22/1985		39 32 3		建 型规则	DE 190	1000	SECTION SE	国 尼罗金	国家地理的			NEW . SI
3/25/1985				275	390	420	Filter (File) 在	285	建筑域型	PER PER	Section 1995	280
3/29/1985 4/5/1985		建	AND AND ASSESSMENT	1627520		200		S STATE DESCRIPTION OF THE	CHARLES AND	AND WANTED IN		Medical laws
4/12/1985						THE SECRET SHAPE	III WEEK TO SOUTH AND	ATTENDED	CAN DECEMBER	STATE OF THE STATE	HE PERSON	Indicate and the
4/22/1985 4/26/1985	COLUMN TO	Saleston				THE REAL		是是學家也有	经验的条款	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	A TOTAL PROPERTY.	研究/哲型如
5/3/1985 5/10/1985	學學可能	2000年1000年		为是一种性	经特别处理	The state of		是四個高級		表別是數數		可能是
5/17/1985	DOM:			提品的	2012/11	的	Constant	O and the last		7 3	5.2度全数器	
5/24/1985 5/27/1985			NAME AND ADDRESS OF	305	435	455	III III III III III III III III III II	315	10 113 132	e seriela		
5/31/1985 6/7/1985	en sinka					MANAGE WITH				Sales of Sales		
6/14/1985		SATE BUILDING AND	A RIGHT BRIDGE LATER	A CONTRACTOR		NUMBER OF STREET	Charles Con		ger all most	がある。	The second	学的测量艺术
6/24/1985 6/28/1985				THE PERSON	经产业 基本	的图象和一种	Z/my/ex	黎教师正郑 鲁	- 特別的學科	同於條例 及其	知治國際	Contract of the Contract of th
7/5/1985 7/12/1985	京4世紀 7月	开始分别是			#14## 10 T	學是人們們		SHEET SHEET	ITE SHE	100	企图则	医 \$250
7/26/1985					建构型负责	5.79 But			48 (20.5)		2000年100日	74 9 8 3h
8/2/1985 8/9/1985	ALCOHOLD S	E/# 1955 E		in syrac	爱感到	1204-00-00-00	SHERRING SHE			The same of the		
8/12/1985 8/16/1985	N-V-TI-FORME			270	350	430	(V21407/2413000000)	360	D. S. T.		Section States Co.	355
8/23/1985					W. W. W. S.	See Englished	STATE STATE	POWER TANK	. D Santa			
8/30/1985 9/6/1985		其實無機的		15 EF A	32 330 101	是自己的	列的基定模型					
9/13/1985 9/20/1985	阿拉斯斯斯	182)			DEM PA	ža.			E me in	BANK HAR	25. 经产品	融 700
9/24/1985			建筑 上	260	328	428		337	64.		Kir Balla	32
9/27/1985 10/7/1985				ACRE SE	3. 712			The said of				
10/11/1985 10/18/1985	10 M	ROSE SECTION	General Control	V. 451	> 劉敬((内)	FREE POOR - NO						
10/25/1985				2000 M	SATISFACE OF	CHRISTIAN ALD		THE PERSON	門實。特殊部別於	SALES STREET		(新聞報報的)(存配)
11/1/1985 11/8/1985	κ, 1		GAZIES NO.	经 學學	L'ARTEEN	经验的转换	SEPARATE AND ADDRESS OF THE PARTY OF THE PAR	O THE LAND	美術集烈和	97.	10000000	逐漸緩的
11/15/1985 11/22/1985		566.7		国品源或	というという		學問題	世紀の機能学			型。 特別的	100 EV
11/25/1985	數假設品等	124		330	550	580	ALC: NO	\$21EE			308	E. F.
11/29/1985 12/6/1985	STATE OF THE PARTY	100		建 了最高的		SHEET ST		Me Good		Clarent.		WASHING.
12/13/1985 12/20/1985				All There		Printer of the Paris		100 PM 000 100 M	Part of the same o		or interest	ACTOR AND ADDRESS OF THE
12/27/1985	No. of the last of			north and an artist	ar precional and the	Supplemental Control	4	A TOTAL CONTROL	MALE CONTRACTOR			4
1/2/1986 1/6/1986	是一种全国			Application (13 5 7		- 15	医脑液	No think the	28	
1/9/1986 1/16/1986				EN BAL	图 . 特		施山灣溪礁		100	F3 (1-1) 30	图 2020年	2002
	A PERSONAL PROPERTY.	polynolis i	an de la company	2	P						25E 4	SHOWER
2/7/1986	The World	3.12	27000		1.12		200	2000年6		Series and the	\$32.5K-25K-5	620.00
2/13/1986 2/20/1986		经验	1 1 2 2	10000		明 有数据 1878 1			你 (金沙)			出现这里 说
2/27/1986											ALUE THE BEAUTIES	HANT BODY CITATA
3/6/1986 3/13/1986			14. 宋为人36		1 1289 1		电影	SECULAR SECTION	STATE OF	· (4)	计路应差面	
3/20/1986 3/27/1986	4. 44.0		经验	410	610	600	即宣称被				500	1000000
4/3/1986		HAZEMEN	15000	为 现实	国务员(1)		4 国际	人名西尔里			500	1,000
4/10/1986 4/17/1986			CELEVES.	Tallage.		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	X-SEPREMA	多斯达福建		2000年		SA PERSONA
4/24/1986 5/1/1986		ar in the second	Market Service			-81,4		Acres 64 20		Angel - Park	Bergan 1733	
5/8/1986	are a series to			a - No. Company							gradus disk	
5/23/1986			2600000	346	25	378	THE STATE OF	Section 2		Kenny .	NAME .	STORY BUILD
6/2/1986 6/5/1986	2000				1 8 1 19	Tan A &		F. 346	CE PART SAME	Mary Sales	建	* * M
7707-300												

					S ANALYSI		1)					
Collection Date	:-27-5 P10	4-27-5 P11	4-27-5 P13		Sampling:		1-27-5 P.	4.27.7 Pt	a.77.7 P7	4,77,7 P3	3-27-7 P.I	4.27.7
6/12/1986	NEW YORK ON THE	- 學問題的	Control of the Control	SERVICE STATE	ALC: ALC: N	ALCOHOLD .	STORY OF THE PARTY				4.0	
6/19/1986									and the same of the same of	A STATE OF THE PARTY OF THE PAR		
6/26/1986	5日发布的海绵研	THE REAL PROPERTY.	以下。但如此		Marie S.		20055		生は独立のよう	力を与いるか	STORE .	100
6/30/1986				395		298	402	358				357
7/3/1986	多 未 一年前	全国国际 1000	学等的外的知识的	过秦的前	A IN JUNE 2	學學學學	Charles Series	表的 机等	の変数を	WATER NO.	是由的特別	10 65
7/10/1986												
7/17/1986			也现在为	MESSIGN.	新市场的	10 E.		市民 沙州河南	Comment of	vh v		4.4
7/24/1986 7/31/1986	EXTANSES.		of the second	Contraction of	and broken	AND DESCRIPTION OF THE PARTY OF		And a Control of the	NAME OF TAXABLE PARTY.	Carlotte Committee		- althouse
8/7/1986	於於於理事配的首如	AND REPORT OF STREET				CAPLICATE SIL	m.	E A MELL			美田田田町町町町	ENERGY C
8/15/1986	ENGRAPHY :		1. C. C.	ing about the	SAYON ST	W. 5. 10. 15.	HA.	SANTENESS.	CHARLES CO.	THE PERSONS ASSESSED.	SPANNANI SANS	Market Bar
8/22/1986		or reprose to the op-	C	PULL SHARE	GOVERNMENT OF STREET	STATE OF THE PARTY OF	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	ACHO SEMINER			ONE STATE OF THE PERSON NAMED IN	TALES TALE
8/28/1986		MANAGE STREET		7. 102407-017-0	EXERCISE A			Barcon House	Contract of the	ONE WHEN GOVE	国际基础的	E Maria
9/4/1986					Deliver of the last of the las	Comment of the last of the las	MANAGEMENT (SO	Married Comments	CHE STREET	No condition of the last	STATE OF THE STATE	HOUR LANCE
9/11/1986			principles of the	27.	14 TV 15 PH 15	GROUND.		A.		(Ca) (Ca)	金田田中田 田田	23.943
9/18/1986				245	158			339				325
9/25/1986	即的中国国际				经外线的证	700			THE XHOLE			的朝趣
10/3/1986												
11/24/1986	100年11年11	計學起於如馬德	Section 2	230	155	380		425	西海里等		物學是指於	380
12/15/1986		COLUMN NAVA										
1/3/1987		(a)	Control of	420	500	700	是切除的旋		1.	2000年	多加州市位	的研究
2/15/1987												
3/23/1987	動物學學	经特别的	No.	430	510	690	1	550	是自然	1991年1991	的問題的問題	篇程 62
4/15/1987		Charles and the control of the contr										
5/5/1987	起源的思想			440	540	2200	国际	解相數理	無例數學	自然的	中观性温	是可能
6/13/1987	250		L	430	460	690		540			490	
7/24/1987			以中心的 學	400	440	大型等的不过	610	新一直接	的理論能		が記れて	では
9/2/1987	380			380	410		460	500				
10/30/1987	的智慧學	290		490	500		490	500	640	0	网络战争	が記り
11/15/1987						-						
12/15/1987		2000年2000年200	. <u>13</u> 4 4			を見りた。	2000年		代码的影响它	COLUMN TO A SECOND	SOUTH THE A	SOFT F
1/15/1991												
2/15/1991	加爾和特別的	2年1969年	能自動物的數	11/10/1	ASSESSED BY	美国人类型的	別書類以初	医部院制度	于我们的禁	分量三人类的影	Carried Street	2000年
3/15/1991												
4/27/1991	EL VOICE DE	相自然是最	235	360	370	624	解除的。你就	和超越的開	的语言的意		初河和印建	25-11/1
5/15/1991												
6/24/1991	斯尼思专业	经 斯·森林克	211	353	372	582	动车	425		Table 18	经产业的	444
7/15/1991		Characteristics			-					///		
8/25/1991	会が金融を発		THE RESERVE	371	377	618	SAME SE			ADD TO	以	THE SECOND
9/15/1991		PORTO CONTRACTOR NA					NI PRINCIPAL SHOP AND					
11/4/1991	Section 2	(Allegaer Control	211	211	382	434	PERSONAL PROPERTY.	437		語《語》類	THE PARTY	理解 1
12/15/1991	-	estamounties is 190 as	DOM:			Name and Address of the Owner, where the Owner, which is the Owner, whic		ander besser or	AND MARKS IN			
2/20/1996		坚定的	建建了	1	10 W 10 S			TO PARTED.	與漢語語的	AND SEE	A STATE OF	Park
4/29/1996	Samuel Control of the	DATE OF THE OWNER, OR WHEN	and the second	Maria -			iner property or	TIMES IN	4.2			
5/30/1996	电图图 电图图	民主在世纪	226	377	395	634	位于中国国	比為為民		と同意を有る場	はまずる	SPECIAL SPECIA
6/30/1996		Contraction of			400		and the transfer of the same		THE PERSON NAMED IN		All control of the co	
7/30/1996	经过的股份	No. of the Control	231	381	400	621		446	面果無則在	District Control	NAME OF	ESP.
8/31/1996			and the second	240	190	300						
9/20/1996	DESCRIPTION OF THE PARTY OF THE	Service and	建立及法国 印度	1000	中国现在		med .	建筑 原籍	(1) 计图》	To Bulleton	中国经验的	沙沙河
10/11/1996		Marine and a second	100	370	402	598		250	OBSINE			
4/7/1999	40000000000000000000000000000000000000	CALL CALL	省市 公路地图			是是自己的	为是自由的一种工艺			(3) (1) (1)	DESCRIPTION	(10) 起槽
5/31/1999				380	394	185		445				
6/30/1999	建设在工程		8色度和1	524	-376	388		ansulu ru	200 國 和意	2019年1	美国和尼州也是	州院
7/29/1999	-		tra bereit Consessed	381	405	600		Interior or house	445			454
8/29/1999	企业 有关。	是即為於學	424年等於2000年	388	409	582	新文型的	20 B	451	No. of the	多數別為原始	(Tables
9/16/1999	in the second			385	404	584		454			459	440
9/27/1999	THE REPORT OF THE PARTY OF THE	MINISTER CHARLES	The second second	387	404	586	San Series .	190	18 16 THE LOCAL PROPERTY.	COLUMN TO SERVICE	CLERK CONT	Chick Service

						LAB CON	DUCTIVITY	(luhos/cn	2)				
						Sai	noling Sta	tions					
Collection Date 1/4/1985	4-27-7 P7	4-27-7 P8	4-27-7 PS	4-27-7 P10	4-27-7 P11	4-27-7 P12	1-27-8 P1	4-27-8 P3	4-27-6 P3	4-27-8 P.I	4-27-4 Pa	4-27-4 P11	4-27-9 BH53
1/11/1985 1/18/1985	***	P. C. S. D.	F/MANAGE	(時間)	S CONTRACTOR	原於經過所因			ALDER OF	網際设置	高級的	1 国图像	計算管理學
1/21/1985	TELEVISION OF THE PERSON OF TH		阿鲁斯尼 西	lo eveni	过事创建多 的	190	305	365	河南縣會民	415	CALL DE LA COLOR		520
1/25/1985 2/1/1985	San San	Programme and	2000 May 27 (2)		Q 等。 新春香香		N. Carlotte	MODEL STREET			100	F. Significance	
2/8/1985			SECTION AND ADDRESS.		STEEN AND DESCRIPTION OF	THE REAL PROPERTY OF	Medical September				NUTCHS SE	CONTRACTOR SOLV	
2/15/1985 2/22/1985	是在北方汉	是是是	N STATE OF THE PARTY OF THE PAR		No.	影響學學學學	854844		EXCEPT	不知能	國際國色	STATE OF STATE OF	自由的自由
3/1/1985	PROSPORT		经关系	分为是否实现		的經濟學		经验证 多项型		上權利的批	The Control	MENTAL FAIR	
3/8/1985 3/15/1985	用从数据数据数	超级的现在分词	STEWNSON ST		10 10 10 10 10 10 10 10 10 10 10 10 10 1		300 ALCONO			OK MARKET AND	Check Additions		
3/22/1985		E (CASCILIA SINC)				A Section Control	E to de desar les con-	P REPORTS	A SAMPLE STATE	STATE OF MARK PROPERTY.	MANUFACTURE AND	A CHARLES	MODELL COMPANY OF THE SAME
3/25/1985 3/29/1985	Charles Services	通過解於從強			TAR STREET	230	410	405	Table Property	440	刘信昭显为	的可能的	医
4/5/1985	四州国家		新教育	49/60	是他们的	極進門語		THE SECOND	经 数时间的	影響煙		常是"点	
4/12/1985 4/22/1985	(ID) ENTERIOR	SAL TERMAN		Control Section	MANAGE ST	SELECTION OF SELEC	No. of the last of	Experience State	PHOTO CA	Children - Maria	DRIFTS TO SERVE	Contract Contract	
4/26/1985									and the second second	Philippin and the second	Subjection of the		
5/3/1985 5/10/1985	203 S (4 a) 2 S	光光在美国中				新型点水流和	是可用是包含	STATE OF THE PARTY		是是問題從	电影影响	美国企业的	語的原因体
5/17/1985		No.	能可修和自				原東語		1. 英国的基	等温暖 动	是是沙漠岛		经交易联制设置
5/24/1985 5/27/1985			从现有关证	343 44		290	405	405		465	52002		520
5/31/1985 6/7/1985		Contraction of the Contraction o			a same o ma		A Security Control of the Control of	Contraction of the Contraction o	202220				
6/14/1985	G188/#1265	A CALL SHEET	MEDITE OF STATE			计数据的图象 心态			ALCOHOLD IN	A-TON THE R	是是到的国	4-35%	会会的经验和公司
6/24/1985 6/28/1985	100 E 95	医检查 12	NACTED		是河梨园	The state of	White Ma	可以公治	HAT DES	elia arabib			September 1
7/5/1985	TEN TO	e . G. c			经 加强的。	TENER SER	美国的	经 通常 图 20		AL STREET			The same of the sa
7/12/1985 7/26/1985	AND SOME D	1.44	(II) (OTHER)	Charles and a	N TOTAL SOLVE	\$100,500,000,000,000	STREET, COMMEN		parameters as	10 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	OTTO CONTRACTOR STATE		
8/2/1985				STATE OF STREET		and the second	March Announced	HANDEN PARK AND	TO THE PERSON NAMED OF THE	Children & Children			
8/9/1985 8/12/1985	都是特別	性體型的		是有些複雜	Delivery is	335	215	255	信息或处理	450			730
8/16/1985	数和读为		A SHIP	R-LEWISCH	PP 工程		ACCOUNT.	世紀 25%	面的質問的	斯斯斯斯			F 45.000
8/23/1985 8/30/1985	and the same			新疆	SA STATE	2000	ASSES AGE	802 - 8 - 2 B	Fait (李多數	4 - 10	4 10 299		District Control of the Control of t
9/6/1985											A STATE OF THE PARTY.		NAME OF TAXABLE PARTY.
9/13/1985 9/20/1985	国际股份的 位制		网络全个社会	C. L. D. C.			海河州长州岛		25 B. 30			動力。自動作品	.Tu
9/24/1985		但如此	Sept Intellige		CANCELLAN	332	398	380		4772		4 3	720
9/27/1985 10/7/1985	14 CO 10 PM		D -17 -5 1	国品类的		华品不是这	是常用 医		HITH IN SOLET		C-1072		100 MICH TO 1
10/11/1985 10/18/1985				Table of Street of		SECTION AND ADDRESS.	SCHOOL STREET	CANDER PROPERTY.	A DESCRIPTION OF	ENTER OF THE OWN			
10/25/1985	e de serviciono		STREET, SOLE			(大) (A) (A) (A) (A)	RINGS	EMILE WATER		1000年			27 F38
11/1/1985 11/8/1985	はなる。		大芒 都。1974	325 000	Contract of	では、	安部等的	CONTRACTOR OF THE PARTY OF THE	原料理查	100 PM			的技術器上於
11/15/1985	TAUDED SHE			PHENORAL PROPERTY.			2 (3)	知能力	是以監督	Section 1	Training Training		3
11/22/1985 11/25/1985	在 不可能。2003	577.250M	Village Andrew		SCHOOL SANDE	BYBID/KUM	420	460	Bright Lames	600	A STATE OF THE STA		870
11/29/1985											Constitution of the last of th	性為。 / // // // // // // // // // // // //	010
12/6/1985 12/13/1985	网络经国地区		別於物质机學	SANSONICAEUN	TERMINAL PROPERTY.	STATE OF THE PARTY.	图》的特殊	ARRANGE STREET	語2.00 均定的	於中國語外的	是為自治		がの間とない。
12/20/1985			Hart Real		T DEWN		ESTABLIS .						
1/2/1986	726	经营销	750P/A		_ Set 11	I SALLEY X	200 100		建筑				
1/6/1986 1/9/1986	A Miles	Maria Series	新歌歌和海	Lacores and the	ALCO A MARK			Martin Statement	MUNICIPALS.				
1/16/1986	of the transfer			NATIONAL PROPERTY.		2017年4月20日	220000	时都为汉 省	CALL THAT I SE			2000年	海州 (1882年)
1/23/1986 1/30/1986	想也是影響			是被控制等。					William St.		医外部的		
2/7/1986	學是是是特	PER BIX		NAME TO BE			STATE OF THE PARTY.	AND THE REAL PROPERTY.	多語	FE 18 18 18 18 18 18 18 18 18 18 18 18 18			
2/13/1986 2/20/1986			and system	2010/00/02/2010	WINDS AND A STATE OF	SHAPPARA		100000000000000000000000000000000000000	AND A PROPERTY OF THE	NA SWIGHT	(1) (1) (1) (1)	224	DEAD TO THE OWNER.
2/27/1986		49-160-160-160-124-140-124-1		rescription and the state of	SECTION SHOWS	SHOW CHANGE	Charles and Alexander	A THE STREET, SPECIAL PROPERTY AND ADDRESS.	公司中央公司	SWA STRAKES		are the sale	
3/6/1986 3/13/1986		与英雄原设计		5002年五月日			是他的			表现是全国	州福尼 瓦	经自己的	
3/20/1986	的影響程》	E West	人是是共		10000000000000000000000000000000000000	国发现产 统	公理的	第26 度隔壁	SYSTANS	VE 20	The Barry	THE STATE OF	国地方采集的
3/27/1986 4/3/1986	為广文財務分	11 11 12 12 1	450	(1000) A (1000)		6000	470	450	GHO DONE S	550	All Part 194	2000	750
4/10/1986								The second secon		was t and observed the			
4/17/1986 4/24/1986	10 10	10年11年11年11年1	NEW YORK	"阿里斯尔斯"		的信息的	を表現という。	No. William P.	The state of	140 40 40 5	的四次的		建和建筑等进
5/1/1986	PERME	14.0000	於西部門	相对研究	京 多河	A same for	建筑	被原理自	基本方式	THE STREET			JE SAPPE STATE
5/8/1986 5/15/1986	1 21 ST	Sport and	MANAGE TO STATE OF THE STATE OF	2年10年12月5日		Wester P.	第一条数据	\$ 19-19-19-19-19-19-19-19-19-19-19-19-19-1	1200560	restate and			5008 W 841/2
5/23/1986	第 371条1位	Make Samples	70.00					0.75	1000		Military		
6/2/1986 6/5/1986	AUSTRALIA S	日本語文字				Market A	中心的特殊	的名字面		A VANCOUNTER	THE REAL PROPERTY.	PARTIE DE LA CONTRACTION DEL CONTRACTION DE LA C	SPERMINE PROPERTY.
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	70_863	200			888	LAB CON)				
Collection Date	. 27 7 07	1 27 7 02	* 27 7 66	1 27 7 0 10	127700		npling Stat		. 27 6 02	1 27 1 24			4-27-9, BH53
6/12/1986	FIGURE 1		建 加速 2000 000 000 000 000 000 000 000 000 0			The second second			STREET, STREET	March 198	27 PB	WASHINGTON TO THE	PARTY CHOS
6/19/1986	Mary 4.18.		Territoria de la constitución de	Service of Security and Sec	and the condense	and state of the state of	TOWARD SCHOOL STATES	STREET, STANSON		The state of the s	Day of the second	NATI ASPASSAGE AS	Alley do LANGUE PAYER
6/26/1986	表示的 法国家	傳統學科	是他的"五大"	企作的	THE RESERVE	建设的基础	27、为1000年的	发现 10000			近 北京 阿金 切	SUP BERME	THE SECTION OF THE PARTY OF
G/30/1986						357	355	400	408				600
7/3/1986	社会企业企业	列斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	《新聞》	Marchael Print	河西海岸市		Name will be	等的 数 第 第 第 第 第 第 第 第 第 第 第 第 第	物的原则		1000	的民族教育和	10000000000000000000000000000000000000
7/10/1986 7/17/1986	NEW REPARTS	LPRINGS NO	San San San	DESCRIPTION OF THE PARTY OF THE	Management of the Control of the Con	A STATE OF THE STA	CONTRACTOR ACTOR		E-pure sayur	APRIL PROPERTY OF	No. of Concession, Name of	Anna Calmanda escala	AND DESCRIPTION OF THE PARTY OF
7/24/1986	阿里拉里 斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	SHEET SHEET BEST	CONTRACTOR OF THE PARTY OF THE	Problem control of the same	THE CONTRACTOR	A CONTRACTOR OF THE PARTY OF TH	N. A. S. B. S.	A STATE OF THE PARTY OF			AS WASHING	Charles and	在100 事已被高 性
7/31/1986	第40 00000000000000000000000000000000000	新教教養の	经 国的基础	建聚化 经基础证					W 15 15 15 15 15 15 15 15 15 15 15 15 15	Para termina	STREET, STREET	HE STEP STORY	Constant of the
8/7/1986													Annual and a second second second
8/15/1986	多少学的	和巴州和	はなりま	のなる意味なる情	的	学 为他与第1	A STATE OF THE STA		ない。	到新疆就能	网络沙鸡	142000000000000000000000000000000000000	を
8/22/1986	Store Address 1974		Company of the Company	Distriction of the last		A STATE OF THE PARTY.	ADDIT - STREET MATE	William Committee in	the colored by a series		p. women committee		
8/28/1986 9/4/1986	1900世界地位	STORES TO SHEET ST	经产品的	2000年2000年	THE REAL PROPERTY.	1900年2月1日日			Sep. 200	EARPOYER	经研究	信息學術的	A 18 18 18 18 18 18 18 18 18 18 18 18 18
9/11/1986			124522000		Partie March 2000	Show Year and	(C)	76 Sept 197 Care	THE MENTAL STR.		S. Shitts free Line		933
9/18/1986						340	318	370		383	COLUMN TRANSPORT MINISTER	ON THE PROPERTY AND ADDRESS.	555
9/25/1986	超使即用於	である。	数の対象では	的語言語	近望在西京沙 德		使用的原金数	斯多里斯里	控制先约出	No. of the last	<i>U</i> 2	477.75	
10/3/1986	Orthodorumentus di		et annual en annual										
11/24/1986 12/15/1986	指述其他	24周月底等5	新州 2000年	建筑。	Branch Constitution	155	320	380	REDUDENTE	425	是是是是		550
1/3/1987	国数据中国外级		ECONOMIC MAN	TENNE ESCO	FERRORES TO THE OWNER.	No. of Contrast	of the Post	40.0	terior de constante de	Spirited Barrier Spirite	64		C 00 100 V
2/15/1987	DEPOSIT OF COMPANY		NAME OF TAXABLE	STREET, STREET	manufacture and the second	DESTRUMENTATION FOR	or a trade and	A CONTRACTOR	THE PERSON NAMED IN	CONTRACT AND ADDRESS.	To be seen a seen as a	ST. W. BILLIAM	REPORT OF THE PERSON
3/23/1987	550	- ERSTALS	正 多是	2000年1000年1000年1000年100日	600		520	670	550	Sec. 13. 4. 51	STATE OF THE STATE OF		110
4/15/1987				Management of the control of the con		A CONTRACTOR OF THE PARTY OF TH	Mary Control of Control			Committee of the Commit	STANSON STANSON STANSON		L. L
5/5/1987	Me ANG	STATE OF STATE			SECTION SECTION	No. 12 12 12 12 12 12 12 12 12 12 12 12 12	他的	Me The same	THE PROPERTY.	学の意識を	C (5533)		TO STATE OF
6/13/1987	530						510	640		720			1100
7/24/1987	40000000000000000000000000000000000000	建設的	也是可能進	也是这种物种	是的學	多种的影響	SERVICE SERVIC		的問題即以	(4) (4)	1. 8	也跨越到	State of Ly
9/2/1987	490	2 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1			540		510	650		720			1090
10/30/1987	进位各种的	2000年16日1日	化等等的	信码的知识的	100世紀 河南縣		10 th 37 th	490	計學的學	は野田田の中で	500	520	1280
11/15/1987		TANK INC.		Paragraph with the same	PALESTA STATE OF THE PARTY OF T	ANALY HE SHEET SAN TH	Control of the	and the second second	Control Control Control	Contractor All	ale and distance	-	
12/15/1987 1/15/1991	ATTACABLE AND THE	STREET		SEPTEMBER 1	90 KB (1) (3) (2)	1874年7月1日		建设区外 国际	GO COLOR	HEREDIGO.	は自然の問題を	司是社会	SSERVENCE
2/15/1991	新起 物學是	是是一种	AND LAND	2005年代前2005年	NY BANK	SECTION STATES	这些意识的数 数	THE DEALER	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other party of the Concession, Name of	100	and the second second	A PARTY CARROL	STREET STREET
3/15/1991	No. of Concession, Name of Street, or other Persons, Name of Street, or ot	H SHEAR STREET, SHEEP STREET,	ALCOHOLD STREET	Control of the Contro	1504 111 10/10/10/10/10	A STATE OF THE PARTY OF THE PAR	SKIPESKY PRINT	OPERATOR BY PARTIES.	Harman Committee of the	Bullion Walletin	STREET, STREET	A PROTESTION OF THE PARTY OF TH	HORSEN BASE SANGERS
4/27/1991	国的现在		新型的工程	無理意 熱	阿 		396	553	CONTRACTOR OF THE PARTY.	618	Mary and the	STREET, SALES	782
5/15/1991												Make a property of the state of	
6/24/1991			活起 源等			428	340	495		625		STAR TO A	383
7/15/1991													
8/25/1991	超過期間認	特用等被国际	中国的被击	部 和 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图	學智能包包	经定款的	学智学。现代证	20%	在政治學		到现 证言		
9/15/1991	According to the last of the l	& Pathernal Programmer Plant Science	The second second second	Or are a real real before the control of			STATE OF THE PARTY						
11/4/1991	南陽高計行為	to de la constante	国。15000000000000000000000000000000000000	1000年100日本		430	408	551	三大山外	660	以 为1000000000000000000000000000000000000		737
12/15/1991 2/20/1996	SWATERSHIELD	SAME TO SERVER	CONTRACTOR OF STREET	OF SHEET BEAUTIES AND ADDRESS.	SALES AND DESCRIPTION OF THE PARTY OF	Salar Sa	MINISTER STATES	STATE OF THE PARTY	and the second of	Secretary State (Sec.	CONTRACTOR OF THE PARTY OF THE	o approximate	Company of the Company
4/29/1996	の場合になって	THE STREET		THE PERSON NAMED IN		AND PERSONS AND PROPERTY.	是的實際的可能	SPECIAL VINCES	· 西西	BEST STATE		建筑区域的	SELECTION AND AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRES
5/30/1996	INSTANCED OF	10 September 1995	Control State		441	LEAD DE COME	1023	ν <u>:</u> ,		PROPERTY.		Children to the	Billion and Annie of the
6/30/1996		ALTERNATION OF THE SECOND	***************************************			471	433	621	Special Contract of the Contra	733	CHARLES CO. SANCED		Service and service and service and
7/30/1996	DEAL BLAS	(GENERAL PARTY		EL SINE	451	TOTAL SERIES	427	621	ENERGY.	390	10 State of the St	S 97 (SY)	1230
8/31/1996													
9/20/1996	同道。因	的特别是		治性的情况的		四個相關因	於明朝高度	arek neg	部の価値	神猫。但			100
10/11/1996		260			260		266	370		440			1250
4/7/1999		T SECOND	THE RESERVE	自然在時間的		Y (**	74 9 P 84			TO THE REAL PROPERTY.	13339		
5/31/1999	() N N N N N N N N N N N N N N N N N N	200		441	438		419	566	387				710
6/30/1999	II.G. AND	320 310	Section 1		国际上 发现	STATE OF THE STATE	411	572	399		10 He 10 H	化自己 過一片	740
7/29/1999 8/29/1999	(III) WEST EST	290	290	461	MATTER 15/15		417 411	572 567	397 429	Part San San			900
9/16/1999	The Samuel Street	250	230	A. C. C.	De College	THE PERSON NAMED IN	Owner La Louis	573	455	410	The Control of	In residence of the last	980
9/27/1999	(目标的)图像	250	260		463	TO SECURE	420	585	445	2530 450 26		Was all and	980
			Market Market Co.										

Appendix M

Table of Total Cyanide SNP Data

		10		20	0.00		VANUDE /	/						
							YANIDE (mg mpling Stati							
Collection Date	4-5	4-9	4-12	4-13	4-29	4-30	4-27-1 P1	4-27-1 P2	4-27-1 P4	4-27-1 P5	4-27-1 P6	4-27-1 P7	4-27-1 P8	4-27-1 P9
1/4/1985		.02				.03				1			4-2/-11-0	4-2/
1/11/1985	(2) E	.02		THE REAL PROPERTY.	边往程	.02			Maritie B	29/05/2019	day:	2個相對 测量器		
1/18/1985	.02	.02			.02	.02								
1/21/1985		沙莲港		而是中华	品等經	E CHINE	.005	世紀一時	以用語的影響	.005	北京和西北江	是是實際的	是認動學生物	.005
1/25/1985 2/1/1985	200 Tel	.02	Company of the Compan	自由的量	假砌造	.02	6 6 化内容流离	100000000000000000000000000000000000000	Supplemental lines of the same					
2/8/1985	BALLATIT	.02	当日本の	transfer to	V P LATERO	.03	MATERIAL PROPERTY.	KING TERM	阿斯尼教型	統制軍隊。臺	公司 [5] [5] [6]	美国加州省市区	建图源和是	计划设计区域
2/15/1985		.02	fill all the	SE SE SE	.02	.02	THE RESERVE	(1) (1) (1) (1)		では彼はからいかと		Dear Commission		
2/22/1985		.02	Handbaleh God	- Contract of the Contract of		.03	AND DESCRIPTION OF THE PARTY OF	COMPAND STATE OF THE STATE OF T	AT DESCRIPTION OF THE PARTY OF	English School of The	Contraction of the last	water of the second	の中華報 (2000年4年4月日)	
3/1/1985	品的现	.02	人人	馬爾思		.03		代的基础的方法	· Salar 16 N	科·斯拉里里		医加斯内姆 克	通信 公果公司官	经
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3/29/1985	are say,	.02	經濟國	114.15 \$ 3.005	與對在於	.02	,005	1 × 1		.005	现的部形形 性基础	电影影响和	美国人的人员	.005
4/5/1985	Mark to	.02	10000	自然的	40 W 32 /	02			A SOLUTION TO SELECT		但是是现在的	(50 H) 5 H 5 H 5 H 1 H	CHING S CONTRACTOR	TA Marine III Salara
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4/22/1985	STREET,	.02	語翻譯			.02	施製17/12/20		的知识是否是	(其四天) 经通用的条	建	阿拉德里以 施		是一种形式
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5/3/1985		.02	市政府	學是特	流域經	.03	法的	學學的學學	监控战器的	自然是自然	透析 800 %			同學書館回
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5/31/1985	- Landau ma	.02	J W. LO., J. L.	San	CONTRACTOR	.02		MINISTRACING SEARCH	Carly Street,	.200	(1917年12月17日於10日至於10日 (1917年12月17日於10日至於10日 (1917年12月17日於10日至於10日日 (1917年12月17日於10日至於10日日 (1917年12月17日於10日日 (1917年12月17日於10日日 (1917年12月17日於10日日 (1917年12月17日於10日日 (1917年12月17日於10日日 (1917年12月17日 (1917年12月 (19	经济社员长来的政治	September 19 (1992)	005
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6/14/1985	.02	.02			.02	.02								
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8/2/1985		.02	Open Street, S	A SQUARE TO SALES	-	.04		STATE SAME AND		a configuration for the same	WHITE PROPERTY AND ADDRESS.	200	STREET, STREET, STREET	Carried Allegan
8/9/1985	都四時沙	-02	STATE OF	100 Mari	多知道	.02	建水		以於,當至的產品	1450000000		建筑设置	电影性	1 700年度福祉
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9/11/1986		.02	阿黎阿		對當個				新型的区域	为对数规则	2000年1月			
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4/27/1991	.005	習遊遊	UMGC.	LAST BAT	.005	******	第二十二十二	.005		忧苦症的特征	新年 (1862)	.005	國際經濟學	(2/2/2012)
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11/1/1985 11/8/1985	是其為所能的	(2000年)(1000年)	地位的	學是不可見是	四日代 经路			10000000000000000000000000000000000000	7		總	STEERING SHEET
11/15/1985	STORE CHE	不是 温度		W. S. Carlotte	200 0年到		建建一次				经制制加工	
11/22/1985 11/25/1985		.017	汽车 医高水体的	.022	(1000) 与 0		.005	18 OH 15.2	045	Shirt was a	SALES AND RESIDENT	
11/29/1985					TALL TALL TO			CL AND BEE			eroseed seets!	
12/6/1985 12/13/1985	The State of the	当时间 正元	为智慧的(2)	EAST E	E MESON A				自身整定的原理			
12/20/1985	Target A	可能與關係	沙湖沙海 里河。		智的思想			建制加强	32 <u>510</u> 677	当 图_超		E-5-82 (3)
12/27/1985	I	10.000			- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10							

		3.5	C	YANIDE (mg	/L.Y							
Collection Date	4 27 1 P10	4.77.2 D1		mpling Stati		4-27-2 P6	1 27 2 07	4-27-2 P8	4-27-3 P1	1 27 2 52	4 37 3 50	. 25 2 05
1/2/1986 1/6/1986	os avalente.			RADIK WAS		4-21-2 F6	4-2/-2 17	4-21-2 P6	4-21-3P	4-27-3 P2	4-27-3 P3	4-27-3 P5
1/9/1986		E CONTRACT			西州和 自由中央		EXAPPENDED	多型 阿尔	1600		特度對	
1/16/1986 1/23/1986		外数下配 管		医乳毒素		CASTA	eros viere				建 海 建氯氯	
1/30/1986 2/7/1986								技能能要企业 标准		花藤包温柳 瓦		Marine Ra
2/13/1986 2/20/1986						ZASTRIDASKI			Talesala.			AND DOMESTIC
2/27/1986 3/6/1986												
3/13/1986 3/20/1986				PERSONAL PROPERTY.	MAN DATE OF	FASS NO.			CONTRACTOR OF THE PARTY OF THE	科· A A A A A A A A A A A A A A A A A A A	SULPHONE STATES	
3/27/1986 4/3/1986		0.01			behald some list ha	To the second second		1250057000	0.009		70 (22/20	
4/10/1986 4/17/1986	Water Sales and American		Think of the Ball								Same and the same	
4/24/1986				The second color of the second		The state of the state of						
5/1/1986 5/8/1986				というない。		E SECTION		(2018) (201			各种体验的	国内国际人员
5/15/1986 5/23/1986		M D T Y T T			1. 计图象图象 表面经	· 图· 全国建筑		CONTROL SERVICE		e such that		
6/2/1986 6/5/1986			AND COURSE					直接確認發展	是在1987年			
6/12/1986 6/19/1986	SHOULD THE PARTY	Par Span		第四周数据	所從是正言計劃的	以下的 50%	建筑地区 图图		经营农产品	1 0	自己	
6/26/1986 6/30/1986	福度音響して創作	.005	6778	.019		经国际基础	.005		.036	Valve at	DAL RUSS	1 + i
7/3/1986 7/10/1986		Service Property			N-Discourse (的复数人 种	MARKET SE	超 日日			题 於海	
7/17/1986 7/24/1986	STANKA NEWS	公园	美国企业			(1.52V, 151)	202 6.6		网络		248.35%	
7/31/1986 8/7/1986					游脑 ,就				特的方式	企图中20回传		经过级制度
8/15/1986 8/22/1986	A SECTION AND	38 E X &	的 对称"等"的								国民共享	SIL AMERICA
8/28/1986	AL TOWN DO		400000	用在 图 数据		EVEN NEW DEF		ef as	et a the	ISSUEN HE		W. W. S. D.
9/4/1986 9/11/1986		有种地震	是的问题和以	14 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			HAZING B	TO THE		等领数数据		
9/18/1986 9/25/1986	.01	.007		.03	分别是包含	.024		Mark Lange	.028			
10/3/1986 11/24/1986		.02		.062		.02			.052	.038	STEEL COM	
12/15/1986 1/3/1987	Bigg Section	[F] [A] [A] [A] [A] [A] [A] [A] [A] [A] [A		西島以自田県				医 強 医	U TS HIS OF		医型圆光动脉	
2/15/1987 3/23/1987	0.02	500 LONG 3	R TO MAKE TO				9 000次年初1000	are was	0.03	0.02		erd with the
4/15/1987 5/5/1987		SEN SEN A SEN			Name (Marie				MARKET ST	計劃形成數式		RESOURCE SE
6/13/1987 7/24/1987	0.02	0.02	453/65/2016/84	0.05	E-190 - 19 20	0.02	Cara Qua		0.05	0.07	Acestar on B	
9/2/1987 10/30/1987	WI 25 S.	0.02	0.02	0.02	0.02	0.03	4.00	0.02	0.03	0.04 0.02		
11/15/1987 12/15/1987	意自動作言編 》				and the same				DAY (SIN MERC)	0.55		
1/15/1991 2/15/1991		Para de la				950 社会发展			STEEN BUTTONS			
3/15/1991	.005	.005		.012	30% 1004		2/2					
5/15/1991	Market Co.				(6) [4] [4] [4] [4] [4] [4] [4] [4] [4] [4]		012		元 01 01		这是非国际	200
6/24/1991 7/15/1991		.005	经产品的	.005			.005		.01	SAM DESCRIPTION	建 交加强数据	
8/25/1991 9/15/1991	20.880公司2016	於自以的 思	基础的								經 費 置城市	Charles 1
12/15/1991	.005	.005		(21.01)	经 国义法司经济	507/60/6678	:005	经 图以上10日的	.024	Winds A.	Shi Little	科学园的场
2/20/1996 4/29/1996		《阿里尔拉人里达》	の場合に対	的基準的政	数が正義権の行為		20 包含的基金 民		经政治法律		沙龙仙 山 柳	
5/30/1996 6/30/1996	0.005	0.019		四個地 1			0.005	数包围发育	0.005	MATERIAL PROPERTY.	6.866/8000	

					YANIDE (mg					-		
Collection Date	4-27-3 P6	4-27-3 P8	4-27-4 P1		mpling Station 4-27-4 P3		4-27-4 P5	4-27-4 P6	4-27-4 P8	4-27-4 P9	4-27-5 P1	4-27-5 P2
1/4/1985 1/11/1985				Ab The State of th	Service Control		州西安部三河町	Senting through	UNTERMINATION	CONTRA DAMAS UNO S		
1/18/1985		Sect of Contract of Contract		15		With the second second	No. 194 Charles and Control	COMMON DESCRIPTION		DESTRUCTED AND SERVICES.	2000年1月1日	主要于2012年19月
1/21/1985 1/25/1985			2000年11日	.006	and the same	朱尔兰 心经验	.005	NO. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	可以付付的	.01	.005	
2/1/1985 2/8/1985	的政治制	SPECIAL SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE	A TABLE OF THE REAL PROPERTY.		ON STREET					企业国际		
2/15/1985			建设置建	o Carrie de	See July 1980	ANEXTED	金属性型 经 基		SF277-15-37	\$100 PM		SAREW STREET
2/22/1985 3/1/1985					OF LINES AND A	STOREST STATE OF THE STATE OF T	China to Albanaso				THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 1997 AND ADDRESS O	
3/8/1985			No. 1 No. of Street, S				24 Residents	REPEND AND DES	海影响外上 0寸5g	Park Sand		14 14 15 CO 1919
3/15/1985 3/22/1985		在1988年1987年		全元 代表 (1)	然为 Land	WATER TO		意思 多数	學學學學學學	8-1-10 P	1 Sec. 20 19	使性情况
3/25/1985 3/29/1985	.005			.005		State of	.005		建筑建筑	.007	.005	.005
4/5/1985	SHALL	国、特别性 原			divine 61	美国企业的			及一些性所能		STORY OF THE	
4/12/1985 4/22/1985					ARE STORE SHOWS	219 4 3 20 K 3 10 E 3	SUPPLEMENT OF STREET	APPROXIMENT AND		Marine Strandard and American		Sent Volde discount
4/26/1985	ALC DESIGNATION OF THE PARTY AND ADDRESS OF TH		Section Sections and			A STATE OF THE STA	W MANAGEMENT	STEER STUBBLE		B-10/19/19/00/6-22/19/00/		
5/3/1985 5/10/1985			DESISTED		のである。	生與無過也	の意味を	和其可以認識	是的沙漠地域		自動物	
5/17/1985 5/24/1985	至5月10年7月		16年的		是是新兴奋		大学の	(3) 7胜部			原出的	
5/27/1985		2000年	克勒克泽西 。由		.005		30% 了雅泰 汉	.005		.006	.005	
5/31/1985 6/7/1985			135 6.4 5.7 6.8	自 (1) (2) (4) (4)	ESCHOLARISM AND A	GMCSUS SEED		A MINISTER AND LINE	(52) Virginia (52)	SAN	THE BURNEY OF CLASE	5000000000
6/14/1985					C COCCOMS SHOW SHOW IN		Semental Internation	NOW OF GREAT STATES AND A	e dan mendengan per	NOTE OF THE PARTY OF	社 信仰紀 (4年度)	
6/24/1985 6/28/1985	ではない。		GRIPATE EN	M CARCESTON	3-12月日日本101年	学生,在他会全体		Marie	和於中國語言是這	是如何可能問題		是国家企业
7/5/1985 7/12/1985			分别从 数层	對此語。而先們	經過自由時代						当网络进则	过多 2.4
7/26/1985	EMARKE	罗瑟 题	1000000	NEW FIE		STEP & BAN	《西蒙华》《西西	KIND ON THE		N E BANG	例是個數學	
8/2/1985 8/9/1985		国际国际	A STATE OF THE PARTY OF THE PAR	尼外 菲亚 - 经条件	18 1 A S S S S S S	NAME OF TAXABLE	STREET NAME OF STREET	STATE VINE AND		K SA	MANAGE AND	\$200 Delection
8/12/1985 8/16/1985	.005	.005		.005	eller al vor pellot elle		.005			.006	.005	Dept Dept.
8/23/1985	MES // 101504140	AND THE PROPERTY OF REAL			A SAME DESIGNATION OF THE PARTY	400年6月1日	的特別的數學	的主要性性的	2007年7月17日日	位 一种在实现的	注题是500 厘	
8/30/1985 9/6/1985	国国际宏地区	(特別為)			美國科學	(题)公共运			有多多的		研练()中国	U.S. BELL
9/13/1985 9/20/1985		nest and the		多位等的中国	機関するが	Berthall M	数图对图 含	EFF LEET		2000年100日	AS DAME	
9/24/1985			(1)以告诫(2)(2)	.005	S. Service Control		.005		新教制在李宏	.007	常规则所	
9/27/1985 10/7/1985	MESEVAL TO HA	The same of the same of		ENDA MINER	新期公司 (2016)	SEP SECURIO	Sign to an execution	T 151 1 100	AND RESIDENCE	ADJ-KOJ A	ALCOHOLD IN THIS	THE MARKET IN
10/11/1985						UMAN AND ESTA			THE RESIDENCE OF THE PARTY		o establication w	
10/18/1985 10/25/1985	PENERSINA		性 上 对		在在一种区域	在 1000000000000000000000000000000000000	26月日中央200	學的學術	和那些各种种		MARKET ST	加工的数据
11/1/1985 11/8/1985		が行うでは接	医生产		3. 100 (大學和)		例是 经表现	RESERVED IN	国民党队的复数	Child Ag		
11/15/1985	O BOARD VA		NE CHA	在18 00年				NEW MESSA	A) 190 GR	De deserte :		SE EN SE
11/22/1985 11/25/1985				.005	TEM CONT. NEW YORK		.005	ENERGE PROPERTY	005	HE STISSES FOR	OF BOX DEPARTMENT	STATE AND STREET
11/29/1985	Southern will		es comme		the supposed of the supposed o			7				
12/13/1985	3 1022 10	CONTROL OF THE PARTY.		学		医性型性	STATE OF THE PARTY	到超過時期	學唯些深刻		因於一個的對	
12/20/1985 12/27/1985		in i	經濟學				美国中华国际			2000年6月	對法治。而	THE WALL THE
12/2//1905												

					YANIDE (mg				*-2	1907	Y	1.22.20
Collection Date 1/2/1986	4-27-3 P6	4-27-3 P8	4-27-4 P1	4-27-4 P2	4-27-4 P3	4-27-4 P4	4-27-4 P5	4-27-4 P6	4-27-4 P8	4-27-4 P9	4-27-5 P1	4-27-5 P2
1/6/1986 1/9/1986	(2) 香(2)	PARAMAR	SILVERY IN		高級外側						重點 配換	
1/16/1986 1/23/1986 1/30/1986			Selection of the Control		5 19 5	Sep. 300		The state of	外局的無			SUESTI LA
2/7/1986 2/13/1986	5 CZ (1)	WARRIED TO SERVICE TO	器 形 当 1 位		Markey	建各种的基础			Marketon 1	超过海流	THEFT	P. Change
2/20/1986 2/27/1986	(6) (1) (1) (1)	经验证据验	亦是如款	0456283811						国际 。苏森	经 基础设置	AST SERVE
3/6/1986 3/13/1986	HETCH							19% 集创为4种	建型型		经的证据	1000
3/20/1986 3/27/1986		国际企业的	0.005			全次學的製造				医大线型 医外部	自然 中外运	
4/3/1986 4/10/1986	阿里阿里	學是認定語	越西郊南村							SERVING SERVING	《 题 题 题	
4/17/1986 4/24/1986			MAN EAST-AND		逐次程序的	共和國家區域	建	學可能學可以	经		發明在存長時	服制机器
5/1/1986 5/8/1986						第25人民第	建筑的的影片	人们对现代的特别				學性質的
5/15/1986 5/23/1986 6/2/1986					DESCRIPTION OF THE PARTY OF THE							
6/5/1986 6/12/1986				STATE OF STATE							COMPANY THE SHAPE TO	
6/19/1986 6/26/1986		and the second				THE SCHAROLS		NAME OF THE OWNER.	THE PARTY NAMED IN	STREET,	E SAME	
6/30/1986 7/3/1986	Medica 12		.005			.005				.006		.005
7/10/1986 7/17/1986				A SUBJECTION		50000 2000		CAS HOUSENE				11.3° (11.1° (3.26.5°)
7/24/1986 7/31/1986	[] 学的, 放映 8		地位的			SAME AND						
8/7/1986 8/15/1986			三种	例由 Wiladi							深趣 [2]	
8/22/1986 8/28/1986		asebys 14	77. Name 1					に対象を変	9 5层设计例	州省湖南省州	TO CARRY OF	THE DISTRICT
9/4/1986 9/11/1986		医医囊			1 Control	22/26/20	ORTESTAS.	6 50 4 615	611987888			de es es
9/18/1986 9/25/1986 10/3/1986	尼里下 第		国际政务	.005		SERIES .	.005		A MAN	.006		.005
11/24/1986 12/15/1986			E TO A COLUMN		.02		POWER !	.02	_02	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		加速型
1/3/1987 2/15/1987		阿里斯斯斯	REAL PARTY			2900AH	是自動物	(2) THE U.S.			元才(太 司人)	
3/23/1987 4/15/1987	0.02	10000000	0.02	0.02	居到海泉港	4.7	W. MeM		0.02			日本の日本の
5/5/1987 6/13/1987	0.08	3,3	0.02			0.02	DE.		0.02	Maken		2.44
7/24/1987 9/2/1987	0.02	* -51	0.02	0.02	NA WEE		以三型的数据		20年19年	0.02	THE C	
10/30/1987 11/15/1987	0:03		0.02			≥ 0.02			0.02		Metable C	
1/15/1991						The C						
3/15/1991		.005				- 2 piny	.005			.005	.005	
5/15/1991 6/24/1991		.005	.005		S - R ASTRO		.005			.005	.005	MARKE SAL
7/15/1991 8/25/1991		NA. A. K.		released on the								DAME DE
9/15/1991 11/4/1991		.02	.025					55 (S. 100 S. 11)		.02	.026	
12/15/1991 2/20/1996	e e e e e e e e e e e e e e e e e e e	Profession of the	· 编练 型 / 发		10 1 10 10 10 10 10 10 10 10 10 10 10 10			COMPLETE.	928486 1 59		 第八十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	医温热 面面
4/29/1996 5/30/1996	0.005	0.005	0:005			0.005		0.005			0.005	
6/30/1996									-			

			C	YANIDE (mg	/L \						
				mpling Stati							10
Collection Date	4-27-5 P3	4-27-5 P4	4-27-5 P5	4-27-5 P6	4-27-5 P7	4-27-5 P8	4-27-5 P10	4-27-5 P11	4-27-5 P13	4-27-6 P1	4-27-6 P2
1/4/1985						L					
1/11/1985	A CONTRACT	器 文 年 送		Î.		可能被推翻	经		34. K. M. J. T.	1 a5	
1/18/1985											
1/21/1985		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	证为他 450	地震運動物學	1100年12月1日	第一次,可与海拔发		后发列的流程指抗	是一种性理解學	.043	.28
1/25/1985 2/1/1985		STATISTICS OF STREET	TELESCOPE STREET	0.3400 CARD THE RES							
2/8/1985	第一个人的	A CHECK	A SECTION ASSESSMENT	编数数全数性。自	美加亚尼亚州科	1000年8月28年	域可可可以可能		TO THE STATE OF	and the second	位别的战争 传
	的海滨加强	MANAGE AND A	ARTHUR DAVID		United and Continue	CONTRACTOR OF THE PARTY OF THE		Eductors observed in	Market Stranger in Sept.	with one or	Anthony of the court
2/22/1985	U.S. Davidson	A STATE OF THE PARTY OF THE PAR	of the Paris Street	Service of the second	PERSONAL PROPERTY.		A ARTHUR DESIGNATION OF			THE REAL PROPERTY.	
3/1/1985	No. of Party	1	多数国际规范	先继生达到安徽社	意思·安斯·加克斯	但和智能發展。	被"走"的"以"。	11.1 11 35		BOOK STANSON OF STAN	N. S. Alexandro
3/8/1985									NAME OF TAXABLE PARTY.		DADISH DESCRIPTION
	2		結盟性性	語語は、心理論	温温器的发	TENENT CAR		地位的		in a management	Service Control of
3/22/1985											
3/25/1985			国家国际 自己经理	2000年1000年100日	A THE SHARE SHE	.005	有是国家职业 证		是完整	.022	23
3/29/ 1 985 4/5/ 1 985	THE PERSON NO. 1250.				A software to				Care Ca Wildurge or 1		
4/12/1985	CHARLES TO SERVICE STREET	THE PERSON NAMED IN	CARRY COMPANY	能和特別在主義工作組織中國	司權的 职为数据	是是是一种是	以下的		《 學學學學學》	2007年3月 2	西 格拉拉拉克
4/22/1985	() 1882年(1878年)		TORSE GATE AND ADDRESS OF			CHARLES TO ME	13 24 November 1	5 海	100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Indo Fredricas
4/26/1985	Of the second	Consider of the Constant	ESPACIAL AND SECUL	Section of the Party of the Par	Charles Strategic	24 of the same of	A STANDARD BOOK	1/4/2	An March 1997	是加速的连马科特	CANAL CONTRACTOR
5/3/1985	10000000000000000000000000000000000000			(学)建 网络食	建版 医含金属	SHARM PRO		CONTRACTOR OF	The street		范尔拉尔县 (201
5/10/1985									Bridgemanne, mentre de Sarriches	Annual Property of the Party	
				的關鍵以經典	建立時間	多的是效果的	是的最大产品		情观和智慧技术		
5/24/1985		The second are this letter and appropriate	motor and a land		ore stational state and						
5/27/1985 5/31/1985	心理學的學		.005	經過的效果	显示的 图 	.005	e de la compansión de l		新加州	.024	.19
			FIG. 557 - C - 19 - 19 (4)	SI CONTRACTOR IN	rac seeky a little stee	Appropriate Control of the Control o			and other and the company	N. Colonian and Colonia	
6/14/1985	10世代的10年11日1日		ARRESTS OF SUBSECT		needed for	Design and the second	是 60 图 图	1.000年前出售售	医勒格拉斯勒斯	20年10年11日本	医影品的源
6/24/1985	THE RESIDENCE	11 11 11 11 11	9名[在建筑]	ata parenta	国	国家期限 通知	SPEADER OF SE	LUMB THE RESERVE	Control of the Control	STORY THE PROPERTY OF	SUPPLIES VICES
6/28/1985				The same of the same		Section 1997			Dispression, M. Schleberg		PERSONAL PROPERTY
7/5/1985	高級是改計		不是他为是的	が石田を記せた	為例如法院政治		制度和直接管	100	阿 林斯特·阿斯特里	当的心态。但2017年	SAP NE BUE
7/12/1985											
7/26/1985	(1)			5月20日1日日	的人類更好是個不	42年6月25日15日		建	国际 美国国际经	透明的研究性	A COLUMN
8/2/1985 8/9/1985		on duting on the sale	Charle Towns of the			THE PARTY NAMED IN	venture de la company de la co	e en la	Day of the Control of	Cold Minimum Man Street	
8/12/1985		CARL TO THE STATE OF	.005	CANALIZE 2020	(新)资源分别(5)	.005	1997年		世代中国英國語學正	建 國際國際	图 章 部 图 图 有
8/16/1985	365 KG28 KG3	Para la constante	THE PERSON NAMED IN	Cart Factor	Water State of the Water	.005	e de la	I Make November	Surger State of the State of th	.022	Marine & Participan
8/23/1985		A STATE OF THE PERSON NAMED IN	or government transfer of	NUMBER OF STREET	THE RESERVE OF THE PARTY.	STATE SALES AND ADDRESS OF THE PARTY OF THE	ALBERT PROPERTY	S. Control of the last	E. 2010 月日 1日	国际的企业	Pictor and State of
8/30/1985	A STATE OF	国第4、252 年	宣傳 於通過	直接表現的可能能	1 000年於四百里	STATE OF THE PARTY	A SET SUNT	可以是是1907年度	相談的學科。但會是他	流 然 点	A PROPERTY OF
9/6/1985											The second second
9/13/1985		學的資訊智慧	THE STATE OF THE S	对 的复数形式	行の地域を	では、自然の対象を表		有别。在3000年18		E_{i}	
9/20/1985		TO A TOTAL OF THE PARTY OF THE			7.						
9/24/1985 9/27/1985	29年4月	A A SECTION OF THE SE	.005	113 7745 7 274	September 1	.005	元型社会国际	$\phi \in \{0,1,\dots,k\}$	工作的主体	.034	.22
				CONTRACTOR STATE		The second	100 July 100 100 100 100 100 100 100 100 100 10		The Same of the Same	100 TO 10	Marie Marie Printer
10/11/1985	Tupo a verbal		AND ALKARIST STATE OF THE STATE OF	With Alleganing		基础结晶层外的层面层的 。	S.C. SAMEGORISTS AND R.	A STATE OF THE STATE OF	The Language of		THE REAL PROPERTY.
	· · · · · · · · · · · · · · · · · · ·	ARTHUR DESIGNATION OF THE PERSON OF THE PERS	对于视影 想到	Her Victoria	C2102004-E	ANTANA SERVICE			102	100000	图4 0.02000年前末
10/25/1985					A CONTRACTOR OF THE PARTY OF TH		A CONTRACTOR OF THE PARTY OF TH		A STATE OF THE PARTY OF THE PAR	The second second	Polymers P. L. Carlino.
11/1/1985	建筑 编程 设	63 2 13			新国的国际				1887 - Partie	A PART OF THE	题统 使现象
11/8/1985											
11/15/1985	处理 建有基	双层域功务		1. 排列3.	S0114		et it is	2 DOM	海岸 斯克斯	1 1 1 W	Erich States
11/22/1985 11/25/1985	ENTER THE RES	.005	G. 3	Str - 2002200	APPER SECTION	A ACC	100 Per 100 Pe				
11/25/1985		,005	HE THE STATE OF		Service Property	.005				.03	.19
12/6/1985			in the beautiful		がいいきの		S. 10 (83.7)	ESSOL AND SHIP		Name of Street	Constitution of the last
12/13/1985			Server Spring of Aspert Street, Spring		and the second	ALC: H		No.	and the same of the same of	All lands	
12/20/1985	10000000000000000000000000000000000000	第	Mark W.			建 2000年	ACL COUNTERS	18001110	CLARACING.	的情感	10000000000000000000000000000000000000
12/27/1985											
141 - 101 - 101 1 102 UZWES	0777			12000000	800 - 105A	· · · · · · · · · · · · · · · · · · ·	.03008				

	_			YANIDE (mg			224				
Collection Date	4-27-5 P3	4-27-5 P4	Sa 4-27-5 P5	mpling Stati 4-27-5 P6	ons 4-27-5 P7	4-27-5 P8	4-27-5 P10	4-27-5 P11	4-27-5 P13	4-27-6 P1	4-27-6 P2
1/2/1986	2000年	(DANSEL)	Wings.	\$1. 3. 4 L						र ।	
1/6/1986 1/9/1986				並隨起到是	E STATE OF	新色量和可能是	NEAT WATER	Legylotalis		位在基础的数	
1/16/1986 1/23/1986	AND RESIDENCE AND		CONTROL SOME		Semantal diserval				Marie Company		
1/30/1986		nesc apr 10 hours on		MINISTER SCHOOL STATE	and the second second	2000年				Section 1 and 1 and 1 and 1	
2/7/1986 2/13/1986		DEPENDING NO			STEED STEEDS	nipuniu on	自己是是是 的例	正日 经股份股			
2/20/1986 2/27/1986	以为 对方法	表示的		阿姆河流		可以外面的特別		1 0	v	DETERMINE	
3/6/1986	MARK YES	建加速的	多数的。	(1)		模熱制能		1.			to law of
3/13/1986 3/20/1986		R. F.				Soldennister	4 September 1	Section of	Signature State State	3 (4.4.	
3/27/1986		0.005			CONTRACTOR OF THE PARTY OF THE	0.005		### T		0.046	0.099
4/3/1986 4/10/1986	的法統領軍領	Barrier and State of	THE REAL PROPERTY.	The second	DEPARTS AND S		AND ENGINEERS		地位的		
4/17/1986 4/24/1986	國際國際	以下 在主		The state of	A TOP AND	70年3月28日		MEST NOW B	於心情的如影響		
5/1/1986		個的經濟學	建建70年间 第	ELECTION OF		V-43000	BANK HE A		国的特别		516
5/8/1986 5/15/1986	THE PROPERTY.	48 S. A. C. VIII.						A TABLE TO BE THE	C-82 (182 182	.077	.099
5/23/1986 6/2/1986		res accordance to the		ERROR STANCE COMMON TO	GAMILES PARAMETERS	Property Constitution for			PANERSONAL PARENCE AND		
6/5/1986			COMPANIES IN INCIDENT	TAN PROPERTY.	EMEN SYNCHES	的 自然的表演	CONTRACTOR OF STREET	e walanezegoni			(A. A. A
6/12/1986 6/19/1986	位	6. 等指的數當	多少可能的	等的的政策		是更是是數	经	時間數學所紹	0.3946648330	是《数据》	
6/26/1986	a of his for	沒 医深色		表。	品加速数型山	(包含的重新	E STATE OF THE STA			經濟經	
6/30/1986 7/3/1986	.005			543701000		.012		\$11000 \$14.8 6 0	阿斯斯斯 斯斯	.014	
7/10/1986 7/17/1986		STATES COL. NO	ANNI AMERIKA SIRENKI	ASSERTATION OF THE OWNER.	UNEDATOROVA I NOME	Several services		NOTES MINISTER			AZ ES EN LO
7/24/1986	MARKET / EMERGING				BEAUTHWASCINGSCOME	CAPA-III		CANADA TANADA	CONTRACTOR OF THE PARTY OF THE	设备的管理局 企	
7/31/1986 8/7/1986			2000年1000年				海 尔特·美国		经验的 国际		
8/15/1986	AND HER	國門的宣言	湖南縣 闽	國際問題	经营业的证据				No.	鲍尔斯 伯勒	网络加多洲
8/22/1986 8/28/1986			到海路到 班			N Desiration			5.50	建筑建筑	
9/4/1986 9/11/1986		日本の日本で	The Park of the Pa						Printed and Street	THE RESERVE AND A STATE OF	
9/18/1986					CARMANERS	.005	CONTRACTOR OF THE STATE OF THE			.017	.025
9/25/1986 10/3/1986	18 18 18 18	医 医 经间隔存储	经外的股份	A PARTY OF	建		明みません				可以是是大多种的
11/24/1986 12/15/1986	0 63 0	的社会会	是但直测的	超 製 国 超	经 国际营留体	是一位图像		起海拔所落		.02	.084
1/3/1987						15月2回答			e Kranten an	0.04	0.11
2/15/1987 3/23/1987			0.02	0.02	0.02	35			west associated	*10.023	
4/15/1987		in the American State									ACRES 1 MARKET
5/5/1987 6/13/1987	用台灣		0.02	0.02	A STATE OF THE STATE OF		0.02		SIDE PROBLEM	0.08	0.04
7/24/1987 9/2/1987		M SCORE	0.02	0.05	4	图 图 2	0.02	11.14	のという。	0.05	08 0.1
10/30/1987			0.04	0.02	ALPRA II			0.03		0.03	0.02
11/15/1987 12/15/1987	选 标为 14	6.75	Natural of			6年7次。整體系	la Significa			Wallay Br.	建 医
1/15/1991 2/ 1 5/1991		X 5 7 17 10 10 10 10						20141			
3/15/1991											
4/27/1991 5/15/1991		in the second				.005			015	名等(i) [Kith	005
6/24/1991			* 4. 6 A 5	3、 ,强	1.5	.005			005	四月028 1.	÷ .024 (54)
7/15/1991 8/25/1991			N. C.						SOFTEN STREET	7 7 02	sc - 02 .
9/15/1991 11/4/1991	es also be			A TRACT POST		.022	A # "		5 022 fals	025	120,000
12/15/1991										'	3 S S S S S S S S S S S S S S S S S S S
2/20/1996 4/29/1996			ENGARIN	Proceedings (THE SECTION	C.	多种型内型	国际		
5/30/1996	13個的2000				计算程序 加	0.005	对于	度 一大大	6 - 60 005	0.005	0.005
6/30/1996											

		-		YANIDE (mg							2.0
Collection Date	4 27 6 D2	4-27-6 P4	Sa 4-27-7 P1	mpling Stati 4-27-7 P2		4-27-7 P4	1 27 7 00				
1/4/1985	4-27-01-3	4-27-0 F4	4-27-7 61	4-21-1 1-2	4-27-4 P3	4-21-1 194	4-27-7 P5	4-21-7 17	4-27-7 P9	4-27-7 P11	4-27-7 P12
1/11/1985			44 T	E. (*)	图 6 是 2			N. Wast		4 5.000	
1/18/1985											
1/21/1985 1/25/1985	.005	用作图数 88%	.005	经验的人的	中提供為前	的學家認	.005	的复数的	(.005
2/1/1985	MILES HE		日本教教的	STATE OF THE PARTY	A CONTRACTOR	DE CARL	4.42		ACON NO PORTAGORA		Mary other state as a survey of
2/8/1985	TOROGRAPHORE SERVED	THE CONTRACT OF THE CONTRACT OF	Programme and advantage	· · · · · · · · · · · · · · · · · · ·	DAMPSCONCERCY.	area of the	CONTRACTOR OF	日本 日	NEW MARKET		100 PM
2/15/1985			作品的生物	1000000		医图图 图 1	高端門論語	张企业 原则	医	到 医神经	
2/22/1985	Acres and Carlotte	one trailman	ACCOUNT OF THE PARTY OF	An are made a series will				and the same of th			
3/1/1985 3/8/1985	发表图 3 特别 的	自 公司与武法组	经制度的	開海田町紅田町	游与国际政治		是公司的基础	品。因為實際		A STATE OF THE STATE OF	中国的 正规节数
						然此門實施物				State All State And	
3/22/1985	B.C. S. C. S. S. S. W. G. S.		CONTRACTOR OF STREET	THE ADMINISTRATION OF	STATE OF STREET, STREE	Dec SERVED BENEVISHE	STATE OF STA			ELBO ESTE ESTADOS ESTADOS	T. D. ATAS MINISTER MANAGEMENT
3/25/1985	.014		019	阿斯斯斯斯	是其中的國際	No simples	.013	世別の代表			,01
3/29/1985 4/5/1985	以	nemalikasini di		and the second	Service Communication Co.	POTENTIAL PROPERTY OF THE PARTY	Production and the second				
4/12/1985	STATE OF THE PARTY	CONTRACTOR OF THE	THE RESERVE	KENT SERVICE	出版新聞作為生態		是四个家伙中心的	10000000000000000000000000000000000000	和國際企品	是是在學問的學	为 国。因此未经理
4/22/1985	是是是		Mary and the same	THE SERVICE			国的 使为4.5%和1000	2000 A 1000 A 1000	THE COLUMN TWO IS NOT	10000000	(500m) (450m) (400m)
4/26/1985											CASE OFFICE OFFICE
5/3/1985	問題內部之前		A CHILD	建设的	10000000000000000000000000000000000000		如此。如果	(四)	是人們,允许	[] 医阴茎型	松 相 在 第四
5/10/1985 5/17/1985			CONTRACTOR MANAGEMENT			SECURITION AND IN	AND DESIGNATION OF THE PARTY OF	1000	PRODUCE PROCESSOR	S. Herrica de la company	
5/24/1985	Sales on the Control		はは日本の			A TORONTO PROPERTY.	第21条地区实施	NAME OF STREET	NEW WORLD	4月後因後2月5日	
5/27/1985	.007		.02	ANNO MENOR EN	STATE OF THE PARTY		.012	Service Chin	医腹壁 唇	THE RESERVE OF THE PERSON NAMED IN	.02
5/31/1985											
6/7/1985	自然然。			NAME AND PARTY.	KORPAN AT		部別以解語	的科學和數	形的短視	學也能够不是	
6/14/1985 6/24/1985			hat 在 100 100 100 100 100 100 100 100 100 1	in the second	alaban menyada teh	STATE OF THE ADDRESS	THE DOWNSON	ECTA ENGINEER	BALL CHRONIC OLDSON	TO SHARE THE STATE OF THE STATE	bhaidig ann an
6/28/1985			THE RESERVE OF THE	THE RESERVE OF THE PARTY.	The second second		(1000年) (1000年) (1000年)	Maria Basin	A CARROLPA	Charles Charles	26.28 000000000000000000000000000000000000
		ASSAUR	建加斯斯		达 为 2000	Philadelphia (Control of the Control	(四) 医动物	(A) 10 10 10 10 10 10 10 10 10 10 10 10 10		400	企业的 是 并没有
7/12/1985	Andreas contra per l'error acc										
7/26/1985 8/2/1985			公子 大学山村 2400	1 Maria (2) (3) (4)	意同道以前特	在 实现的证据。		THE DESIGNATION OF THE PARTY OF	STATE OF THE PARTY		阿斯斯斯 (多)
8/9/1985			是是我们是100g	在 中的第三人称			STAR LOSS IS NO			CONTRACTOR OF THE PARTY OF THE	Control of the second
8/12/1985	.012	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	.022			NAME OF TAXABLE PARTY.	.014	Security of the Control of the Contr	country of the second	SALMANNELLE - SAMPLE	.017
	語 題 起源	是其代本語	医护护植物	超過過過	建设的对抗	医	的學們是可				
8/23/1985			AND AND ADDRESS OF THE PARTY OF	Liver de desert	20 m		COMPANIES OF STREET				
8/30/1985 9/6/1985	COLUMN TO THE REAL PROPERTY.	加州山州州	5740 PE 300 E	300 155 W 150 150 150 150 150 150 150 150 150 150			星花的极度数		州空田 300 图	第一次,不是	
	性温度成		6.7		S 25		Albert Wall	Edward Co.	这种类似的	建筑 交易(2000)	
9/20/1985								THE A SHADOW COMPANY	L-MC-100-MINISTER	Charles Carlot	
9/24/1985	.018		.022	四國經 图	数据が必要を	是是認定是	01	大学	特别的	10000000000000000000000000000000000000	_021
9/27/1985 10/7/1985		Semon Service			2. 数据总据的			PENNSHER MARKET		unio anticipato par	
10/11/1985			and the same			CHENT STATE OF THE P	HER THE REAL PROPERTY.		的問題的學科技術	经验的证据的	
10/18/1985			经验 产级	5000年5月19日		是多级资	金额的		高高级16.40mm	NEW VONE	PRESENT.
10/25/1985											
11/1/1985 11/8/1985	是自然地震	新元明 1000000	DEMONSTRATES	THE RESTAN	北京 田本学学家	學院的問題的	经上级方面			相望是这种意思	医小型 加速
11/15/1985		85.0	STORY TO STORY	N. S. Constant	Company to an		132000000300	Lancocco (MA			Edward Action
11/22/1985	- H	47		40.0	Access to the second se			Maria Maria		The second secon	
11/25/1985	.039	常度和關稅	.069	的	建位表现 信 (4)	.014	建设路里 。	(2.00mg)		5. 公司是某个	
11/29/1985	And the second second		A REPORT OF THE PARTY OF	PERSONAL AND L	Carrie de la carri						
12/6/1985 12/13/1985		2000年	(2) 图 (2) 图 (2) 图 (2)	的现在分词是是	现在 66%		1 1 2 1 2		是是於為	一起突然武	是到的现在分
12/20/1985				0.81514.5	22 GTX 100		The Hotel	100000000000000000000000000000000000000		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	AND MICHIGAN
12/27/1985					Towns and the second se			To the state of th	to the state of th		
No.			N.W 25-2	V2602-			7.0				

		- 3 3 3	C	YANIDE (mg	/L)				54-		
Collection Date	4.27.6 P3	4-27-6 P4	Sa	mpling Stati 4-27-7 P2		4-27-7 P4	4-27-7 P6	4-27-7 P7	4-27-7 P9	4-27-7 P11	4-27-7 P12
1/2/1986			OF LABOR	15-21-11-2			4-2/-		3-2/-/ P9		4-21-17-12
1/6/1986 1/9/1986		7 (S. 18)						502 8 GH			MESON IN
1/16/1986 1/23/1986			學物態 人名德	NAME OF THE		ENERGY COM	新加州政治	SE 1 SE SE SE SE	P 200	200	
1/30/1986 2/7/1986	商品的主义的数据	Fortschild Street		MARINE STATE	WINDSHIP CALLS	Marca de Caración de	ALEXANDER AND		A STATE OF THE STA		Marini da como estado
2/13/1986					Padesternia per			Paris Profit Service	Asserted the Laboratory	Man Management	的
2/20/1986 2/27/1986		Laparing Lagran			S. 7		Long Visit	管理的 满年			在新型型设施的
3/6/1986 3/13/1986		· 提出常经的	OKAN MAKAN	在市场 。现在	用题等企图		多語學學學所		· · · · · · · · · · · · · · · · · · ·		西班名的
3/20/1986 3/27/1986	0.73	超速度 温暖		/程	能够放地包	0.007	经加强的	(河南) (南)	0,005	136656	0.017
4/3/1986			display in		起來的社會		Amost Small	10倍14倍度		T. C. St.	0.017
4/10/1986 4/17/1986	战争等		当等方面	\$0.00 (d)	A TO A TO	司器司领国	ない。中華の政		SERVE	在	
4/24/1986 5/1/1986	是一个一个	(A) A PARTIES		849 BO 6 D		STEEL STOP		1.4.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		(2) (2) (2)	
5/8/1986 5/15/1986	22						表面实现			0. S. S. S. S. S. S. S. S.	
5/23/1986 6/2/1986	Marie San	TO A STATE OF	ROW WOOD STATE OF				N. Sandika, Asara				
6/5/1986	MATERIAL SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE SECTIO		In Store Caregory Store	grant begrage ream	SERVICE DE	SEPARATORISMON.	L COMPANDED	EDWARDS ASSESSED	高新5.在2014100		常见证的过程的
6/12/1986 6/19/1986			2011			1. 5					
6/26/1986 6/30/1986	.03	.036	.01				.007	四四年五年	Mathala A	BUEL MES	.006
7/3/1986 7/10/1986			No. of the			14.3%和200	和主意思	Page 12 to 1			
7/17/1986	Friday (g		Carl State	建 超级		色和特殊場	ACT THE	研究的思想			
7/24/1986 7/31/1986			35 经过新强用			2019			A HOUSE		
8/7/1986 8/15/1986			100000000000000000000000000000000000000			是是不是					O DESCRIPTION
8/22/1986 8/28/1986	在 的可以使用	25 (MA) 25 (MA)		第 的网络发剂	NAME OF THE O			pla service		公司	SECTION OF THE
9/4/1986 9/11/1986	群岛 医皮髓液 经		OUR TO A SUM	N. ARVIN DE HORZON	THE WORLD			National States			Ushing the state
9/18/1986 9/25/1986		MAY NO SHARE	.025		September of the St	en avenue	.007				.022
10/3/1986		Services Continues of	MONTH SE	15 to 16 to	200 · 200 ·	MONTH STATE OF THE				TO POSSERS AND AND DO	
11/24/1986 12/15/1986	,225		.02	数官の名詞は		KING DIG.	.02				02
1/3/1987 2/15/1987	0.18	阿沙百八菱金百		A CONTRACTOR OF THE PARTY OF TH	阿拉斯斯斯	2.25 min	No. of the last of	REPORT OF STREET	用绘形,对6 在		
3/23/1987 4/15/1987	0.12	直。原到现在	0.02		《 公司》	化 基本化规模型		0.02	的是是其他可以	0.02	
5/5/1987 6/13/1987	0.11	FAMILY TO	0.05	B. 43 X 125		0.02	faran - k	0.02		27.765 7	发出数次因数
7/24/1987	四年後於至	0.1	编程则 ETE			0.02	er and a first				
9/2/1987 10/30/1987	South Services	0.06	0.03	0.02	0.02	阿特别的第		0.02		0.02	的特色的态度
11/15/1987 12/15/1987				14231200933		施克勒斯斯	E MASSEL				
1/15/1991 2/15/1991			200 A S. (4)		ASSESSED FOR STATE		ari e decembros		SECTION ASSESS	15, 6 - 7852 - 2 - 1	
3/15/1991 4/27/1991	.05		(0)934.50M	MINE NO FIRE		VALUE STATE	Parket No. 10 miles			April 1972 D. New Joh	260300
5/15/1991	.05									COLUMN TO SERVICE STATE OF THE	
6/24/1991 7/15/1991			,01	(E. Link - Elega)			.007"	MCM Q TO A THE	海果园楼 (14)	而動作語言的	.014
8/25/1991 9/15/1991	.02			公司 经扩展	的 2000 海 增	Service Maria		高兴海达 。	企图的数据 (17)	海路 阿斯科 	東西北京
11/4/1991 12/15/1991	.052		.032			经和实际制度	.027		notified the	(祖) (明) (法)	.033
2/20/1996 4/29/1996		Constitution of	新亚亚洲			色粉璃瓣	机加速器	NE SERVICE	A PARA		NATIONAL VIEW
5/30/1996	0.007		ON STATE	1556 S (\$ 15		DESIGNATION OF THE PARTY OF THE			经制造编制	0.005	CONTRACTOR OF STREET
6/30/1996					3		- 1			- estates (

	-	C	YANIDE (mg	0.5		3 3	
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Appendix N

Table of Dissolved Metals SNP Data Station 4-30

DISSOLVED METALS (mg/L) Sampling Station 4-30						
Collection Date	Dissolved Copper	Dissolved Nickel	Dissolved Zinc			
1/4/1985	.04	.02	.02			
1/11/1985	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.02	.02			
1/18/1985	.02	.02	.02			
1/25/1985 2/1/1985	.02	.02	.02			
2/8/1985	.02	.02	.02			
2/15/1985	.02	.02	.02			
2/22/1985	,02	.02	.02			
3/1/1985	.02	.02	.02			
3/8/1985 3/15/1985	.02	.02	.02			
3/22/1985	.04	.02	.02			
3/29/1985	.02	.04	.02			
4/5/1985	.04	.02	.02			
4/12/1985	.02	.02	.02			
4/22/1985	.02	.02	.02			
4/26/1985 5/3/1985	.12	.02	.02			
5/10/1985	.02	.02	.02			
5/17/1985	.02	.02	.02			
5/24/1985	.02	.02	.02			
5/31/1985	.02	.02	.02			
6/7/1985	.02	.02	.02			
6/14/1985 6/24/1985	.04	.02	.02			
6/28/1985	.02	.02	.02			
7/5/1985	.02	.02	.02			
7/12/1985	.02	.02	.02			
7/19/1985	.02	.02	.02			
7/26/1985	.02	.02	.02			
8/2/1985 8/9/1985	.02	.02	.02			
8/16/1985	.02	.02	.02			
8/23/1985	.02	02	.02			
8/30/1985	.02	.02	.02			
9/6/1985	.02	02	.02			
9/13/1985	.02	.02	.02			
9/20/1985 9/27/1985	.02	.02	.02			
10/7/1985	.02	.62	.02			
10/11/1985	.02	.02	.02			
10/18/1985	.02	02	.02			
10/25/1985	.02	.02	.02			
11/1/1985 11/8/1985	.02	.02	.02			
11/6/1985	.04 .02	.02	.02			
11/22/1985	.08	.02	.02			
11/29/1985	.02	.02	.02			
12/6/1985	.12	.02	02			
12/13/1985	.04	.02	.02			
12/20/1985 12/27/1985	.02	.02	.02			
1/2/1986	.02	.02	.02			
1/6/1986	.02	.02	.02			
1/9/1986	.02	.02	.02			
1/23/1986	.02	.02	.02			
1/30/1986	.02	.02	.02			
2/7/1986 2/13/1986	.02	.02	.02			
2/20/1986	.02	.02	.02			
2/27/1986	.02	.02	.02			
3/6/1986	.02	.02	02			
3/13/1986	.02	.02	.02			
3/20/1986	.02	.02	.02			
3/27/1986	.02	.02	.02			
4/3/1986 4/10/1986	.02	.02 .02	.02			
4/17/1986	.02	.04	.02			
4/24/1986	.02	.02	.02			
5/1/1986	.03	.02	.02			
5/8/1986	02	.02	.02			

Appendix O

Table of Water Inputs SNP Data Station 4-1

Mc	Monthly Water Inputs From Flat River M ³							
Month	1985	1986						
Jan	105,095	94,407						
Feb	97,921							
Mar	91,313	111,987						
Apr	80,086	104,932						
May	90,408	105,696						
June	86,253	88,307						
July	84,486							
Aug	82,884							
Sept	86,251							
Oct	98,028							
Nov	61,696							
Dec	93,128							
Total	1,057,549	505,329						

Status of plans, reports and studies required under MV2015L2-0003

Part of Licence	Item Required under MV2015L2-0003	Status
В	Annual Water Licence Report	Submitted annually. Most recently submitted in March 2023.
В	Engagement Work Plan	Submitted in March 2016.
		No change associated with MV2023L2-0006.
В	Engagement Plan	Submitted in 2020.
		No change associated with MV202212 0006
E	Final Detailed Construction Plan - Landfarm	No change associated with MV2023L2-0006. Not submitted. Facility has not been constructed.
E	Final Detailed Construction Plan – Solid Waste	Not submitted. Facility has not been constructed.
	Disposal Facility	, , , , , , , , , , , , , , , , , , , ,
E	Tailings Containment Area Cover Design Study	Submitted in 2014.
		No change associated with MV2023L2-0006.
E	Final Detailed Construction Plan – Dry Stack Tailings Storage Facilities	Not submitted. Facility has not been constructed.
E	Final Detailed Cover Design Plan – TSF4b and TSF7	Not submitted. Facility has not been constructed.
E	Final Detailed Cover Design Plan – TSF6	Not submitted. Facility has not been constructed.
E	Final Detailed Construction Plans – Engineered Structures	Not submitted. No new engineered facilities constructed.
E	As-Built Reports	Not submitted. No new engineered facilities constructed.
F	Modifications – As-Built Reports	Not submitted. No new engineered facilities constructed.
G	Waste Management Plan	Submitted in 2014.
		No change associated with MV2023L2-0006.
G	Water Management and Mine-site Erosion and	Submitted in 2014.
	Sediment Protection Plan	No change associated with MV2023L2-0006.
G	Flat River Erosion and Sediment Protection Plan	Submitted in 2013.
		No change associated with MV2023L2-0006.
G	Hydrogeological Groundwater Study Report	Not submitted. No restart of commercial operations planned.
G	Geochemical Risk Assessment Report	Submitted in 2014.

MV2023L2-0006 – North American Tungsten Corporation Ltd. – Response to MVLWB-1

	T	7
		No change associated with MV2023L2-0006.
G	Geochemical Load Balance Model	Submitted in 2014.
		No change associated with MV2023L2-0006.
G		Submitted in 2015.
	Information Gap Analysis Report	No change associated with MV2023L2-0006.
G	Integrated Geochemical Load Balance and Risk	Submitted in 2017.
	Assessment Report	No change associated with MV2023L2-0006.
G	Tailing Containment Area Monitoring Plan	Submitted in 2011.
		No change associated with MV2023L2-0006.
G	Tailings Storage Facility Cover Design Progress	Not submitted. Facility has not been constructed.
	Report	The construction radinty has not seen constructed.
G	Historical Data and Interpretation Report	Issued for use in 2013. NATC is unable to locate this document on the public registry, so is appending it to this submission.
		No change associated with MV2023L2-0006.
G	Research and Monitoring Plan for Dry Stack Tailings Storage Facility TSF4b	Not submitted. Facility has not been constructed.
G	Tailings Processing and Storage Facilities Management and Monitoring Plan	Not submitted. Facility has not been constructed.
G	Groundwater Pumping Contingency Plan	Submitted in 2013.
		No change associated with MV2023L2-0006.
G	Tailings Containment Area and Dry Stack Tailings	Submitted in 2022.
	Storage Facilities Emergency Preparedness Plan	No change associated with MV2023L2-0006.
G	Wastewater Treatment Facilities Operations, Maintenance and Surveillance Manual	Not submitted. Not restart of facility planned.
G	Flat River Hydrology Plan	Submitted in 2014.
		No change associated with MV2023L2-0006.
G		Submitted in 2013.
	Plume Delineation Study Design	No change associated with MV2023L2-0006.

G	Plume Delineation Study Report	Submitted in 2013.
		No change associated with MV2023L2-0006.
G	Nitrogen Response Plan	Not submitted. No restart of facility planned.
G	Phase II Environmental Site Assessment Report	Superseded by the Phase III Environmental Site Assessment Report, <u>submitted in 2023</u> .
		No change associated with MV2023L2-0006.
G	Geotechnical Inspection Report	Submitted annually. Most recently submitted in <u>September</u> <u>2022</u> .
G	Dam Safety Review Report	Submitted in 2023.
		No change associated with MV2023L2-0006.
G	Dry Stack Tailings Storage Facilities Inspection and Review Report	Not submitted. Facility has not been constructed.
Н	AEMP Design Plan	Not submitted, deferral request in progress.
Н	AEMP Re-evaluation Report	Not submitted. See above re. AEMP Design Plan.
Н	AEMP Annual Report	Not submitted. See above re. AEMP Design Plan.
Н	AEMP Response Plan –	Not submitted. See above re. AEMP Design Plan.
	Notification to Board	
Н	AEMP Response Plan	Not submitted. See above re. AEMP Design Plan.
ı	Spill Contingency Plan	Submitted in 2020.
		No change associated with MV2023L2-0006.
J	Interim Closure and Reclamation Plan	Not submitted, deferral request in progress.
J	Final Closure and Reclamation Plan	Not submitted.