the respective areas of the site. Some additional vegetation will be planted near the berms to enhance their noise screening ability.

More information on the noise impact assessment may be found in Vibration Assessment Limited, 1995.

#### 5.12 VECTOR CONTROL

The proposed waste stream does not include putrescible materials and thus bird and rodent problems will not occur. As such, countermeasures for these nuisances are not warranted.

# 6.0 CONTROL SYSTEM OPERATION, MAINTENANCE, AND PERFORMANCE MONITORING

# 6.1 OPERATION, INSPECTION, AND MAINTENANCE REQUIREMENTS

The various engineered systems that comprise the landfill design will require routine inspection and maintenance to ensure their proper operation. The activities that will be carried out to operate, inspect, and maintain various landfill components are documented in tabular format as follows:

Table 4: Ground Water Collection Perimeter Drain and Underdrains

■ Table 5: Ground Water Pumping Station

■ Table 6: Leachate Collection System

■ Table 7: Leachate Pumping Station

Table 8: Hydraulic Control Layer

■ Table 9: Gas Venting System

■ Table 10: Final Cover

■ Table 11: General Site Works

#### 6.2 LEACHATE CONTROL SYSTEM PERFORMANCE MONITORING

A monitoring program has been developed to provide an understanding of the potential for leachate generation, its composition, and the potential for its migration through the liner system both before and after the operating period. This will be achieved through a number of monitoring activities, as

	Table 4: Ground Water Perimeter Drain and Underdrain Operation, Inspection, and Maintenance Requirements	Inderdrain Operation, Inspection, and Ma	intenance Requirements
Frequency	Operation	Inspection	Maintenance
Daily		<ul> <li>No specific daily requirements.</li> </ul>	- No specific daily requirements, maintenance as needed.
Monthly	No active operational requirements; system operates by gravity flow and only when	<ul> <li>No specific monthly requirements.</li> </ul>	- No specific monthly requirements, maintenance as needed.
Quarterly	ground water pumping station is in operation (refer to Table B.2)	- Probe cleanouts for sediment accumulation.	<ul> <li>No specific quarterly requirements,</li> <li>maintenance as needed.</li> <li>Remove sediment as needed.</li> </ul>
Annually		- Video inspection of perimeter drain piping.	Flush system piping as required based on inspection, other maintenance as needed.

Note: Ground water level and quality monitoring addressed in Tables 12 and 13.

	Table 5: Ground Water Pumping Stati	ater Pumping Station Operation, Inspection, and Maintenance Requirements	ce Requirements
Frequency	Operation	Inspection	Maintenance
Daily		<ul> <li>If in operation, check pump operation.</li> </ul>	- No specific daily requirements, maintenance as needed.
Monthly	Ground water will be pumped from collection system as required. Once in operation, pumping station	<ul> <li>No specific monthly requirements.</li> </ul>	No specific monthly requirements, maintenance as needed.
Quarterly	operaces automaticanty with pumps activated by most controls. Once pumping cycle set at system start-up, no active operational requirements.	<ul> <li>Inspect for sediment accumulation.</li> <li>Remove pumps and inspect for wear.</li> <li>Inspect pump switches, electrical systems and alarms.</li> </ul>	- No specific quarterly requirements, maintenance as needed.  Vacuum sediment as needed.
Annually		<ul> <li>No specific annual requirements.</li> </ul>	No specific annual requirements, maintenance as needed.

	Table 6: Leachate Collection System	Collection System Operation, Inspection, and Maintenance Requirements	Requirements
Frequency	Operation	Inspection	Maintenance
Daily		Measure leachate quantity being collected.	- No specific daily requirements, maintenance as needed.
Monthly		<ul> <li>No specific monthly requirements.</li> </ul>	<ul> <li>No specific monthly requirements, maintenance as needed.</li> </ul>
Quarterly	No active operational requirements, system operates by gravity flow.	- Probe cleanouts for sediment accumulation.	No specific quarterly requirements, maintenance as needed.
Annually or Other		<ul> <li>Video inspection of all system piping upon completion of construction.</li> <li>Once constructed, video inspection of main pipes on annual basis, lateral pipes once every two years.</li> </ul>	Flush all collection system piping as required based on inspection, other maintenance as needed.

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	Leachate quality, quantity, and head monitoring addressed in Lo
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	Table 7: Leachate Pumping Station and Gravity Sewer Operation, Inspection, and Maintenance Requirements	ity Sewer Operation, Inspection, and Main	ntenance Requirements
Frequency	Operation	Inspection	Maintenance
Daily		<ul> <li>Check pump for proper operation.</li> </ul>	- No specific daily requirements, maintenance as needed.
Monthly	Pumping station operates automatically	<ul> <li>Inspect pumping station for sediment accumulation.</li> <li>Inspect gravity sewer for sediment accumulation.</li> </ul>	<ul> <li>Vacuum sediment as needed, maintenance as needed.</li> </ul>
Quarterly	with pumps activated by their Contons.  Once pumping cycle set at system start—up, no active operational requirements.	<ul> <li>Remove pumps and inspect for wear.</li> <li>Inspect pump switches, electrical systems and alarms.</li> </ul>	<ul> <li>No specific quarterly requirements, maintenance as needed.</li> </ul>
Annually		<ul> <li>Video inspection of all gravity sewer piping after construction completion.</li> <li>Once constructed, video inspection of gravity sewer piping once per two years.</li> </ul>	- Flush gravity sewer as required based on inspection, other maintenance as needed.

	Table 8: Hydraulic Control Layer	Table 8: Hydraulic Control Layer Operation, Inspection, and Maintenance Requirements	lequirements
Frequency	Operation	Inspection	Maintenance
Daily	Operation of replacement system (*).	When replacement occurring, ensure water injection/extraction occurring.	<ul> <li>No specific daily requirements, maintenance as needed.</li> </ul>
Monthly	No specific monthly requirements.	<ul> <li>No specific monthly requirements.</li> </ul>	<ul> <li>No specific monthly requirements, maintenance as needed.</li> </ul>
Quarterly	No specific quarterly requirements.	<ul> <li>No specific quarterly requirements.</li> </ul>	<ul> <li>No specific quarterly requirements.</li> <li>Maintenance as needed.</li> </ul>
Annually	Operate water replacement system as required.	- Check pump, etc. operation as part of start-up.	<ul> <li>No specific annual requirements, maintenance as needed.</li> </ul>

No active operational requirement until end of 20 year landfill operating period. Saturation of hydraulic control layer to begin starting in about year 20. Frequency of replacement of water within hydraulic control layer to be determined based on water quality within layer and will typically occur on a once per year basis. Water quality and head monitoring addressed in Table 12.  $\widehat{\mathbf{c}}$ 

	Table 9: Gas Venting System Op	lenting System Operation, Inspection, and Maintenance Requirements	luirements
Frequency	Operation	Inspection	Maintenance
Monthly	System is passive and has no active	<ul> <li>Inspect venting pipes for obstructions.</li> </ul>	<ul> <li>No specific monthly requirements, maintenance as required.</li> </ul>
Annually	operational requirents.	<ul> <li>No specific annual requirements.</li> </ul>	<ul> <li>No specific armual requirements, maintenance as needed.</li> </ul>

(tabs/94406/1294)

Note: Combustible gas monitoring addressed in Table 15.

	Table 10: Final Cover Inspection and Maintenance Requirements	nce Requirements
Frequency	Inspection	Maintenance
Semi-Annually	<ul> <li>Walk-over' inspection for settlement occurrences, surface erosion, and vegetation condition (semi-annually for first two years following construction).</li> </ul>	<ul> <li>No specific requirements, maintenance as needed based on inspection.</li> </ul>
Annually	<ul> <li>Walk—over' inspections after two years.</li> </ul>	- No specific requirements, maintenance as needed.

equirements	Maintenance	<ul> <li>Maintenance/repair as needed.</li> </ul>	Maintenance as needed (sediment removal, revegetation, erosion repairs).	<ul> <li>Maintenance as needed.</li> </ul>
Table 11: General Site Works Inspection, and Maintenance Requirements	Inspection	Visual inspection of all fences, gates, visual screens, access roads, First Road West (for efficiency of sweeping) public warning signs, traffic signs.	Visual inspection of sedimentation / retention ponds and perimeter ditches for vegetation condition and sediment accumulation (monthly for first year after construction).	Visual inspection of sedimentation / retention ponds and perimeter ditches for vegetation condition and sediment accumulation (semi-annually after first year following construction).
	Frequency	Weekly	<b>Monthly</b> (May to October only)	Semi–Annually

(tabs/94406/1294)

presented in Table 12. All monitoring results will be compiled in the annual site monitoring report, discussed further in Section 8.

The relevant highlights of this program are summarized below.

#### **Atmospheric Conditions**

Atmospheric conditions will be recorded daily at the on—site weather station. The site precipitation record will be used in the interpretation of other monitoring results to provide a check on measured leachate generation rates. Other measurements, such as wind speed and direction, will be used to help plan daily landfilling activities, as noted in Sections 5.9 and 5.10.

#### Waste Receipt Data

Continuous waste receipt data will be collected by means of the scalehouse records. These can be used to assist in review of leachate quality data.

#### Leachate Collection System

Leachate flows in the leachate collection system would be measured daily to document the amount of leachate collected and discharged from the system. Flows will be measured at the leachate pumping station.

Leachate levels in the landfill would be monitored quarterly within the existing phases. This frequency would be reviewed after at least two years of operation. Levels will be measured within selected leachate cleanouts, as well as at standpipes installed within the granular blanket between adjacent lateral leachate collection pipes, shown in Figure 20 as Locations L1 through L6. The standpipe locations will assist in determining if any appreciable leachate mounding exists between the collector pipes, should leachate levels rise to the level of the pipes.

Leachate samples will be collected from the standpipes and from the collection system cleanouts on a quarterly basis. Samples will also be collected from discharge points of the leachate collection system initially on a monthly basis, (quarterly after two years). Leachate samples would be analyzed for the leachate indicator parameters, support parameters, and organics scans identified through the hydrogeologic impact analysis (Gartner Lee Limited 1995a). This parameter list is the same as that proposed for ground water monitoring beneath and around the site, discussed in Section 7.1.

#### TABLE 12

# LEACHATE CONTROL SYSTEM PERFORMANCE MONITORING

This program will be implemented sequentially as the development of the site progresses. The Short Term category corresponds to the period during the operating life, prior to the hydraulic control layer being surcharged. The Long Term category corresponds to the post closure period, once the hydraulic control is surcharged. The following schedule examines each layer individually in terms of water quantity (levels and flow) and water quality (chemistry).

			Frequency
Atn	ospheric	Conditions	
		Short and Long Term	
		- Temperature (min., mean, max.), precipitation, wind direction	Daily
Wa	ste	- Records of scale-house receipts of waste types	Continuous
Lea	chate Co	llection Layer	
		Short and Long Term	
1	Levels	<ul> <li>6 Internal locations (centred between underdrains), 16 of 44 cleanouts</li> <li>2 Diffusion test pad locations (Short Term only)</li> </ul>	Quarterly Quarterly
2	Flow	- Current Leachate Collection System discharge point	Daily
3	Quality	- Discharge point	Quarterly
Hyd	Iraulic Co	ontrol Layer	
		Short Term	·
1	Levels	<ul><li>visual observation at downhill perimeter ditch</li><li>2 sampler tubes at diffusion test pads</li></ul>	Monthly
		Long Term	
		<ul> <li>14 pump in/out locations around perimeter</li> <li>6 sampler tubes placed at internal locations (as above)</li> </ul>	Monthly for 2 years after surcharge. Quarterly thereafter
		Short Term	
2	Flow	visual observation, or pumpout volumes, at downhill perimeter ditch	Monthly or as needed
		Long Term	
		- at each of 14 pump in/out locations as part of flushing cycle	Annually or as determined by performance testing
		Short Term	
3	Quality	<ul><li>at downhill perimeter ditch</li><li>2 sampler tubes at diffusion test pads</li></ul>	As needed when flowing
		Long Term	
		- 14 pump in/out locations	

			Frequency
Gro	ound Wat	er Collection System / Vinemount Flow Zone	
		Short and Long Term	
1	Levels	<ul> <li>13 perimeter cleanout locations</li> <li>2 diffusion test pad locations (Short Term only)</li> <li>Discharge, if pumping</li> </ul>	Quarterly
2	Flow	- Discharge, if pumping	Monthly
3	Quality	<ul> <li>9 of 13 perimeter cleanout locations</li> <li>Discharge, if pumping</li> <li>2 diffusion test pad locations (Short Term only)</li> </ul>	Quarterly
<u>Pri</u>	nary and	Secondary Liners	
		Short and Long Term	
1	Levels	<ul> <li>Calculated from levels recorded in leachate collection system, hydraulic control layer, and ground water collection system (as above)</li> </ul>	
2	Flow	- Calculated from above information	
3	Quality	Electrical Conductivity only at two diffusion test pads  - 3 levels per liner  - 2 probes per level to provide reproducibility ( = 12 probes / location)	Quarterly

To avoid engineered perforations of the liner systems, which may become conduits for fluid movement and/or localized liner failure, ground water monitors in the VFZ, UFZ, MFZ, and LFZ will be restricted to the perimeter of the site. (That is, no ground water monitors will exist under the liner.)

The results of the leachate sampling would be reviewed as they become available to determine if there are any significant changes on leachate quality. The ground water quality monitoring program would be adjusted to reflect any changes in leachate quality.

#### **Hydraulic Control Layer**

The monitoring of the hydraulic control layer will be carried out in two distinct phases. These correspond to during the landfill operating period when the layer is unsaturated, and after closure when the layer has been saturated and the hydraulic trap is operating.

During the operating period the hydraulic control layer will be monitored monthly for the presence of leachate. This will occur via the monitoring chambers within the temporary berms, and through the injection/extraction wells.

After closure, the water levels, quality, and flows during water replacement will be monitored at the injection/extraction wells. Levels will be monitored monthly for the first two years after saturation and then quarterly thereafter. Water level data will be compared to leachate level data, which will allow determination of the effectiveness of the hydraulic trap.

Water quality in the layer will be analyzed quarterly for Parameter List A as defined for the ground monitoring program discussed in Section 7.1. Water replacement within the layer will be triggered based on the concentrations of various parameters relative to background water quality. This is discussed in detail in the hydrogeologic impact assessment (Gartner Lee Limited, 1995a). Flow quantity will be measured during the water replacement events.

#### **Ground Water Collection System**

Water levels and water quality will be monitored within the ground water collection system, as well as flow quantities when pumping is occurring. These data will be used to assess whether water within the system, and therefore water within the Vinemount Flow Zone, is being affected by the landfill.

Water levels and quality will be monitored quarterly within each of the 13 cleanouts located along the perimeter perforated collection pipe. Water quality analyses will be for the same parameters identified in the general ground water monitoring program discussed in Section 7.1.

Flow records would be maintained monthly when the system is pumped.

#### **Primary and Secondary Liners**

Flow gradients across the liner system can be calculated based on the head measurements already discussed within the leachate collection system, the hydraulic control layer, and the ground water collection system. This will be carried out both during and after the landfill operating period.

The actual migration of contaminants through the liner will also be monitored during the site operating period at two diffusion test pad locations. Each location will be instrumented to provide information along a vertical profile through the liner system, as follows:

- three electrical conductivity probes embedded within the primary and secondary liner, with the probes within each liner situated above one another;
- a leachate collection system monitoring station situated over the location of the conductivity probes;
- a sampling probe within the hydraulic control layer; and,
- a sampling probe beneath the secondary liner within the shallow bedrock.

Typical details through a test location are shown in Figure 21. Measurements will be taken quarterly at each test pad. This will consist of leachate level and quality monitoring, liner conductivity probe readings, observation for the presence of liquid within the hydraulic control layer, and, if needed, sampling of any liquid, and shallow ground water level and quality monitoring.

This monitoring will be used to develop characteristic time—diffusion records. After 10 and 15 years, respectively, the two test pads will be exhumed, the pore water in the clay extracted, and then analysed for contaminant concentrations. Thus diffusion profiles for specific contaminants can be developed and calibrated against the conductivity profiles developed in the field. In this way actual predictions of diffusion can be made to assist in the monitoring and operation of the landfill control systems.

The test pads will be situated at the eastern edge of Phase 1, and the north western edge of Phase 1. These locations were chosen to allow collection of a relatively long data record during the operating period, while still facilitating exhumation. Experience with conductivity probes at existing southern Ontario landfills indicates that the probes can be expected to fail at some point beyond the 10 to 15 year timeframe. Therefore we believe that continued operation will not likely be possible beyond this time.

#### 6.3 GAS CONTROL SYSTEM PERFORMANCE MONITORING

This program is considered together with off-site gas monitoring, discussed in Section 7.3.

# 7.0 ENVIRONMENTAL MONITORING

A program of ground water, surface water, combustible gas, and nuisance monitoring will be carried out to confirm that the landfill operation is not impacting local residents or the surrounding environment. The monitoring programs proposed will generally commence with the start—up of site operations, and will continue after site closure for the duration of the contaminating lifespan.

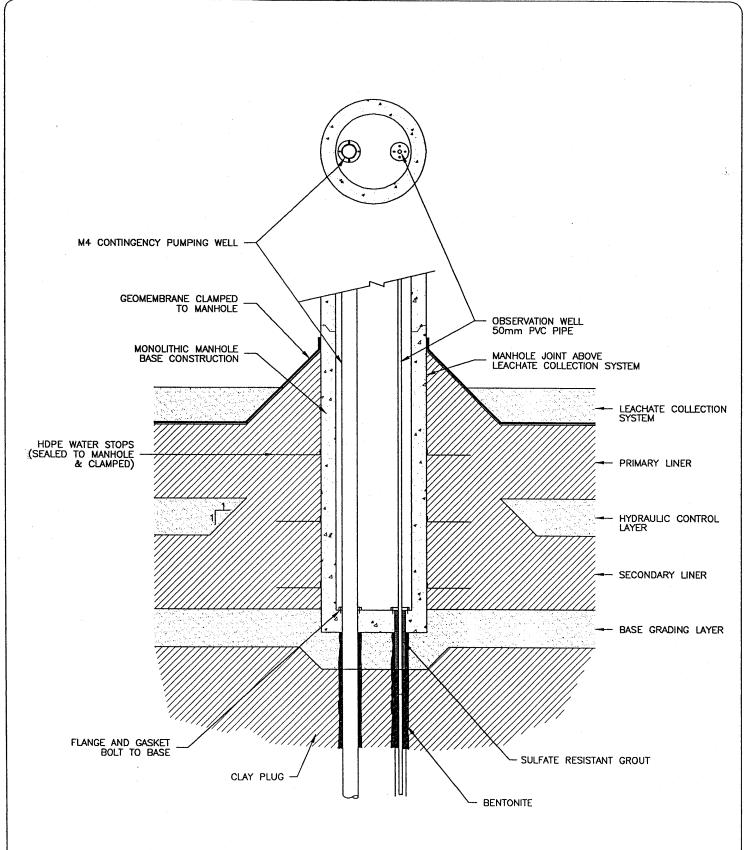
# 7.1 GROUND WATER AND LEACHATE MONITORING PROGRAM

An extensive monitoring well network exists around the East Quarry presently, and, for the most part, this will be utilized for future East Quarry monitoring. Table 13 summarizes the proposed ground water monitoring program.

Presently there are 69 ground water monitors associated with the East Quarry, installed at 19 on—site plus seven off—site locations. The monitors are installed in all hydrogeologic layers at most locations. A large portion of these are associated with the monitoring program of the West Quarry Landfill. These monitors will continue to be assessed to determine the success of the remediation of that landfill's plume. They should continue to be monitored to determine the change in conditions against which the proposed East Quarry landfill will also be assessed.

Further to the existing monitoring network, two additions to existing monitoring nests plus two new monitoring nests are recommended. The additional monitors are required in the Lower Flow Zone (LFZ) at location 60 and in the Vinemount Flow Zone (VFZ) at borehole location 49. Two of the six monitoring nests are required off—site and downgradient of the quarry to the north (locations 64 and 65 shown on Figure 20). The off—site monitors would be installed prior to development of the landfill to assess background water quality.

The proposed double liner system depends upon hydraulic control in the long term, and therefore it is important to preserve the integrity of the liner. Therefore, the design avoids any perforations of the liners due to installations such as maintenance holes, cleanouts or monitoring riser pipes. For this reason, monitors at locations 28, 29, 37, 38, 39, 40, 53, and 54, will be progressively decommissioned prior to landfill construction in each phase. The only exception is the contingency M4 pumping well and monitor 55. Pumping of the M4 well is an effective containment technique for collection of impacted ground waters beneath the East Quarry, as proven by its operation to remediate West Quarry Landfill impacts. We therefore consider that this installation should be maintained, along with the adjacent ground water monitor 55. These well casings will be extended to the surface of the landfill as it is being developed within a manhole chamber. Special precautions will be taken to ensure that the liner system is adequately sealed around the chamber, as shown in the typical detail in Figure 22.



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TARO AGGREGATES LTD.

EAST QUARRY ENVIRONMENTAL ASSESSMENT

LINER SEALING DETAILS AT

CONTINGENCY M4 PUMPING

WELL MANHOLE

Figure 22

GLL 94-413

DEC. 1994

TABLE 13

# **Ground Water Monitoring Program**

#### **WATER QUALITY MONITORING**

Boreh #	ole	Eramosa Dolostone	Vinemount Flow Zone	Upper Flow Zone	Mid Flow Zone (upper)	Mid Flow Zone (lower)	Lower Flow Zone	Frequenc Param A	eter List B
28	*		IV	111	1			4	. 2
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36					ŀ		11	4	
37	*		. 111	H	1			4	
38	*		111	. 11	" · 1			4	
39	*		III	H		1		4	
40	*		III	ll ll	1			4	1
42		100			1			4	
46					11		1	4	
47		IV	111	11	1			4	2
48		IV		101	11		1 1	4	İ
49		IV	new monitor	111	- 11 -		1	4	
50		11		1				4	
51		٧	IV	III	11		1	4	2
52		Ш	11	l .				4	
53	*		III		l			4	
54	*		IV	111	II			4	
55				1				4	
56				H	.1			4	
60				il	1		New Monitor	4	
61			III	Ħ	1.,			4	
P 1						11		4	
P 5					11		1	4	
P 7					II .			4	
P 8		. 11						4	
New M	site	oring Location monitoring nest Landfill	s north of the			II .	1	4	2 in year 1

<sup>\* -</sup> All monitors at this location to be decommissioned prior to construction of landfill in this phase.

#### Parameter list

List A: General: pl

General: pH, Conductivity, Alkalinity, Phenols, TKN, NH<sub>3</sub>-N, TOC

Major ions: Ca, Mg, Na, K, Cl, SO<sub>4</sub>, F, NO<sub>2</sub>-N, NO<sub>3</sub>-N, Br, PO<sub>4</sub>

 $\label{eq:metals: Al, BA, BE, B, Cd, Cr, Co, Cu, Pb, Fe, Mn, Mo, Ni, Si, Sr, Ti, V, Zn$ 

**<u>List B:</u>** Organic Analysis: Misa Groups 16, 17, 18, 19, 20, and 22.

#### **WATER LEVEL MONITORING**

Frequency

	rioquerioy
Ground Water: Water Levels would be collected in all monitors four times per year to correspond with the ground water quality monitoring. (Any new monitor will be monitored monthly for the first 12 months after construction and well development.	4 times per year

Quarterly monitoring, as outlined on Table 13, is recommended to monitor for landfill impacts during the operational phase of the site. The monitoring program includes all monitors that currently exist within the East Quarry and a number of monitors within the West Quarry Landfill site. Measurement and sampling protocols would conform to the most current Ground Water Monitoring Program, as amended from time to time by annual monitoring reports (and approved by the Regional MOEE Director).

The program will include water level monitoring as well as water quality analyses. Water quality analyses are focussed on the leachate indicator parameters identified through the hydrogeologic impact analysis (Gartner Lee Limited 1995a), which include pH, conductivity, ammonia, fluoride, bromide, calcium, potassium, sodium, TOC, phenol, benzene and toluene. In addition, a number of support parameters provide a more complete understanding of the ground water or leachate quality. List A on Table 13 identifies which parameters are included. List B is a full organic scan which will be undertaken at background locations (all monitors at location 51) and downgradient monitors (all monitors at location 47).

The clean run-off collected from the completed surface of the landfill, or open parts of the quarry will pass through sedimentation ponds into a detention pond. As identified in Section 4.4, a portion of this water will be reinfiltrated into the ground water system via an infiltration pond or through risers installed in the bedrock bottom of the pond. This water will have to be tested to ensure it meets Ontario Drinking Water Objectives (ODWO). The infiltration pond would be tested monthly for inorganic parameters (List A, Table 4) when sufficient water is present, and on an as needed basis, depending upon rainfall events.

One of the key purposes of the ground water monitoring program is to ensure that no landfill-related impacts are occurring within the local ground water regime. In this sense the results of the routine monitoring are very important, because they may be used to identify the need for implementation of contingency measures.

The identification of a well defined trigger mechanism that will signal the implementation of contingency measures is inappropriate at the East Quarry because of the poor natural ground water quality and because of expected changing background water quality. We therefore propose that a series of ground water sampling events be reviewed together, and the presence of trends be used to determine the need for contingency measures.

More detail regarding the rationale behind the ground water monitoring program, including the logic sequence that is proposed for reviewing ground water chemistry is discussed in detail in the hydrogeologic impact assessment (Gartner Lee Limited, 1995a).

#### 7.2 SURFACE WATER MONITORING

The surface water monitoring program has been designed to meet the following objectives:

- a) to assess whether the landfill is in compliance with the surface water quality policies of the MOEE; and,
- b) to evaluate the effectiveness of on-site sediment control measures.

Monitoring will be carried out at nine stations around the proposed landfill. The locations of the stations are shown in Figure 23. The frequency of monitoring and field and analytical parameters are summarized in Table 14.

The sampling stations include the following:

- a) two background stations (T11, T12);
- b) two sampling stations at the outlet of each sediment pond (TSI, TS2);
- c) two monitoring stations at the proposed outlet from the landfill (T3, T3A); and.
- d) three monitoring stations off-site (T21, T23, T28).

Stations T3 and T3A are at the present surface water outlet from the East Quarry. Drainage water collected in the East Quarry is presently impacted by leachate—affected ground water from the West Quarry Landfill. East Quarry drainage is prevented from discharging at location T3A and this water is collected and pumped to the sanitary sewer. Monitoring at this station will continue until the West Quarry Landfill effects have been remediated. No discharge of surface water from the proposed East Quarry Landfill will be allowed until water quality at T3A meets the PWQO.

The three off-site monitoring stations would be monitored twice per year unless contamination is detected at the landfill outlet at T3. At that time, monitoring at these downgradient stations and at T3 would be increased to monitor for potential impacts to Davis Creek.

Monitoring stations will be established at the outlets of the sedimentation ponds to monitor the effectiveness of settling TSS (total suspended solids) and to confirm that the water quality is acceptable for off-site discharge.

As noted in Section 4.4, consideration will be given to infiltrating clean storm runoff into the ground water system. Monitoring will be carried out to ensure that this water is of suitable quality for infiltration and/or off-site release. Monthly monitoring will be carried out for inorganic parameters (parameters in List C on Table 13).

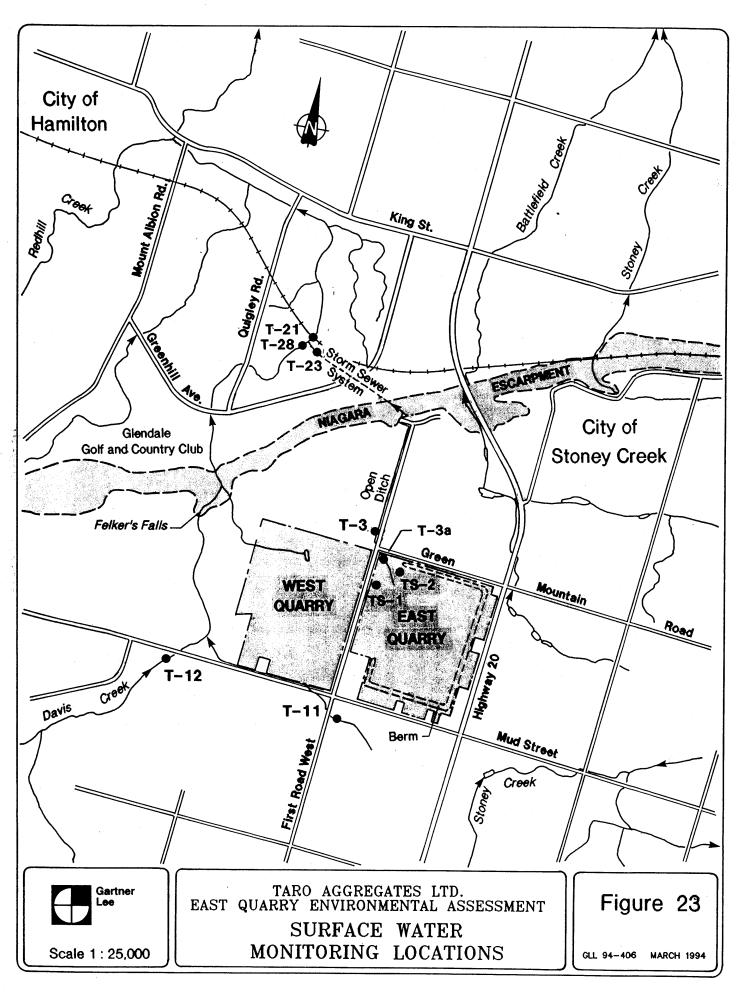


Table 14: Surface Water Monitoring Program

			Гable D-1:	Sampling	g Frequency			
Stations	April Dry	Feb-Apr Spring Freshet	Apr-May Spring Rain	June Dry	June–Sep Summer Rain	Aug Dry	Oct Dry	Oct–Dec Fall Rain
T-3	С	C+E	С	C+E	С	С	С	С
T-3A	C	C+E	C	C+E	C	С	C	C
T-11	C	C+E	C	C+E	C	С	, C	C
T-12	C	C+E	С	C+E	C	C	С	С
T-21		D		D				
T-23		D		D		•		
T-28		D		D				
TS-1		В	В			В		В
TS-2		В	В			В		В

Note:

List A (Field Parameters) is included with each B, C, D and E list.

	Table D-2: Par	ameter List	<del>(* - ) -                                  </del>	
List A: Field Measurements		List B:	Evaluation of	Sediment Ponds
pH dissolved oxygen water temperature conductivity stream flow (or water level)		total phosp iron	001) – see note bo	elow chromium (.1) nickel (.025)
List C: Water Quality Evaluation	on (full)			
total suspended sediment hardness nitrite un-ionized ammonia (calculated) copper (.001) cadmium (.00045) chromium (.1) filtered total aluminum (.075) total phenols (4AAP) (.001)	pH and alkalinity chloride total ammonia total phosphorus (.03 boron mercury (.0002) iron (.3) arsenic (.1)	lead nick sele	hate ium	dissolved organic carbon nitrate magnesium manganese zinc (.020) silver (.0001) molybdenum (.010) beryllium vanadium
List D: Water Quality Evalua (indicator parameters		List E: 7	Trace Organic	Compounds
total suspended sediment pH and alkalinity total ammonia boron chromium (.1) nickel (.025) phenols conductivity chloride				

Note:

Number in parenthesis is the minimum detection limit (in mg/L) which must be obtained in all cases. If it is not possible to achieve the stated detection limit then the lowest possible detection limit should be obtained.

The monitoring program will be routinely reviewed both during and after the landfill operating period, and revised as necessary based on monitoring results. More detail on the surface water monitoring program is presented in O'Neill Environmental, 1995.

### 7.3 LANDFILL GAS MONITORING PROGRAM

As discussed in Section 2.3, low levels of combustible gases will likely be produced within the landfill. The landfill design incorporates features that will promote the venting of combustible gases to the atmosphere and limit the off-site migration of gases through the subsurface. The gas control measures are discussed in Section 4.5.

To monitor the effectiveness of the design, gas monitors would be installed in the Eramosa bedrock in the buffer at approximately 200 m intervals around the circumference of the landfill. These locations would be placed in between the landfill and adjacent developed properties. The monitoring program is presented on Table 15.

Combustible gas concentrations will be measured weekly during the first two winters of operation of a landfill phase, and monthly during the summer. If gas has not been detected off—site after two years, the monitoring will be reduced to monthly during the winter and once during the summer.

Gas monitors would be installed within the waste in each phase of the landfill as it is completed, to assess methane gas production. They would be monitored monthly for gas pressure and methane concentration for the first two winters, and once during the summer. The long term monitoring frequency would be adjusted on the basis of the results after these two years.

At the West Quarry Landfill, it is known that combustible gases vary in their composition. For example, the gases have varying degrees of methane and hydrogen. Knowledge of the gas composition is necessary to allow calibration of the routine combustible gas monitoring. Quarterly samples of the primary gas constituents (O<sub>2</sub>, CO<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>, and CH<sub>4</sub>) will therefore be collected and analyzed from each completed phase of the landfill, within the first year of completion of the landfill phase.

Monitoring carried out within similar wastes at the West Quarry Landfill has indicated that the proposed waste stream will not produce any significant levels of non-methane organic compounds(NMOCs). As such, we consider that monitoring for NMOCs is unwarranted at the East Quarry Landfill.

Information regarding the rationale behind the gas monitoring program is presented in the hydrogeologic impact assessment (Gartner Lee Limited, 1995a). Information on the NMOC monitoring carried out at the West Quarry Landfill is presented in CJB Air Quality Management, 1995.

TABLE 15

# Combustible Gas Monitoring

As each phase of the landfill is constructe every 200 m around the landfill, into the w Monitoring will include combustible gas c	of the landfill ound the land include coml	As each phase of the landfill is constructed, the gas monitors should be installed in the waste plus every 200 m around the landfill, into the water table in the Eramosa bedrock. Monitoring will include combustible gas concentrations in all monitors.	
Monitoring	Winter:	First two years of landfill phase construction	weekly (perimeter monitors) monthly (waste monitors)
		After two years with no detection of combustible gas	monthly
	Summer:		once
Sampling of Landfill Monitors	andfill	Gas sampling (CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> , O <sub>2</sub> , H <sub>2</sub> ) within first year of phase completion	four samples each location

## 7.4 NOISE, DUST, AND ODOUR MONITORING

#### 7.4.1 Noise Monitoring

Noise monitoring will consist of yearly measurements of noise levels produced by landfill construction equipment. Monitoring will be carried out according to the protocols defined in MOEE, 1978.

Any nuisance effects from noise will also be dealt with through a formal complaint process developed in consultation with community representatives and MOEE staff. Complaints related to nuisances will be individually investigated by landfill staff, and appropriate remedial measures taken as necessary. Detailed records will be kept of complaints and responses.

#### 7.4.2 Dust Monitoring

Sampling and analysis for suspended particulate matter will be conducted annually during the operating period of the landfill. This monitoring will consist of the following:

- a) Sampling will be carried out over a 31 day period once per year, during the summer. Samples will be collected every six days during this period, although some variations may occur due to practical considerations such as interruption of landfill operations or the temporary unavailability of samplers.
- b) Samples will be taken at three locations simultaneously:
  - i) west of the East Quarry, on the west side of 1st Road West (considered to be the 'upwind' sample);
  - ii) east of the East Quarry, on the west side of Highway 20 (considered to be the 'downwind' sample); and,
  - iii) at a residence nearby the East Quarry (as yet undetermined).
- c) Sampling will be carried out using standard Hi-vol samplers and methods routinely used by the MOEE in their own suspended particulate monitoring.
- d) Any nuisance effects from dust will be dealt with through a formal complaint process.

The monitoring program may be discontinued if jointly considered appropriate by Taro and the MOEE. This would occur, for example, due to a sufficiently long record of data showing no dust effects from the landfill.

#### 7.4.3 Odour Monitoring

Odour-related nuisance effects will be dealt with through a formal complaint process. We consider that potential for odour problems is minimal, and thus that routine odour monitoring is not warranted.

#### 8.0 REPORTING

Documentation and reporting of site operations and monitoring activities will be carried out routinely during both the operating life of the landfill as well as after landfill closure.

Records will routinely be kept of the following:

- a) waste control activities, including waste tonnages received and any special occurrences such as rejected waste loads;
- b) quantities of clean fill imported to the site;
- c) results of quality assurance testing carried out to assess the suitability of imported soils;
- d) complete records of the construction and quality assurance testing for new stages of the landfill liner and other control systems;
- e) inspection and maintenance logs;
- f) operations logs for various control systems;
- g) logs from the on-site weather station;
- h) any complaints that were registered against the landfill and the action taken to deal with the complaints; and,
- i) surface water, ground water, and gas monitoring results.

These records will be summarized into an annual report submitted to the MOEE. We anticipate that the actual format and content of the annual reports will be determined at a future stage in consultation with the MOEE.

Taro intends on encouraging the continued involvement of the local community through an on-going community liaison committee. As such, the routine operating records would be provided to the committee for review as well as the MOEE.

Should interest exist, copies of the annual reports will be made available to the local community. For example, copies of the annual report can be kept on file at the local community library, and would also be available for public review at the site office.

#### 9.0 CONTINGENCIES

The proposed design and operations concept incorporates engineered systems to control leachate, gas, and nuisance effects. Although these are fully expected to function as planned, we recognize that potential exists for unexpected occurrences. As such, contingency plans have been developed to deal with these potential occurrences.

We consider that the most important contingencies are those related to leachate and gas control, and these are dealt with herein. The mitigation of nuisance effects such as noise, dust, and odour can be dealt with through modification of landfill operating practices, and thus no distinct contingencies have been developed for these.

The design of the leachate control system includes several redundant features which were discussed in Sections 4.3.3 and 4.3.4. An example of this is the ability to collect leachate through the perforated piping system or leachate cleanouts in addition to the granular blanket. We have defined contingencies to be those actions that would be taken in the unexpected event that both a primary system and built in redundancies are ineffective. For leachate control, the contingencies relate primarily to the presence of a double liner system, and a predictable hydrogeologic setting that is conducive to ground water pumping. We note that of the techniques proposed as contingencies, such as ground water recovery, are presently being demonstrated at Taro's adjacent West Quarry Landfill. The contingency plans related to leachate control are presented in tabular format in Tables 16 and 17.

The gas contingencies rely primarily on the flexibility of the gas control system to be retrofitted to provide active control. These are presented in Table 18.

Each table identifies scenarios for unexpected occurrences, indicators for each scenario, and the contingencies available.

Contingencies related to leachate management are also discussed in Gartner Lee Limited, 1995a and O'Neill Environmental, 1995.

(tabs 3/94406/rpts/0394)

	Table	Table 16 (continued): Contingency Plans Related to Leachate Impacts in Ground Water	Impacts in Ground Water
	Contingencies After	cies After Completion of Operating Period (After Saturation of Hydraulic Control Layer)	on of Hydraulic Control Layer)
	Scenario	Indicator	Contingency Action (s)
1-1	Leachate migration through primary liner.	Observe leachate effects in water within inter-liner drainage layer.	Reduce dependence on hydraulic control layer by minimizing leachate level on primary liner. See 2. below.
2	Leachate migration through secondary liner.	Elevated conductivity values from probes within secondary liner.	Collect impacted ground water through pumping of ground water collection system. See 3. below.
		Observe leachate effects in shallow ground water beneath site (within Vinemount Flow Zone).	
3.	Leachate impacts beyond Vinemount Flow Zone.	Observe leachate effects in deeper ground water below ground water collection system.	Collect impacted ground water by pumping recovery wells in Mid-Flow Zone (i.e., M4 pumping well).
		Observe leachate effects beyond influence of Mid-Flow Zone recovery wells.	Collect impacted ground water by pumping recovery wells north of site (north of Eramosa Scarp).
		Observe leachate effects beyond effect of scarp	Negotiate contaminant attenuation zones as required.
		recovery wells.	Provide water supply to affected properties.

(tabs3/94406/rpts/0394)

	Table 17:	Table 17: Contingency Plans Related to Leachate Impacts in Surface Water and Sewer Discharge	ace Water and Sewer Discharge
	Scenario	Indicator	Contingency Action (s)
<u> </u>	1. Storm runoff contact with wastes.	Observe leachate impacts in sedimentation or detention ponds.	Prevent discharge off-site. Direct water to sewer discharge.
2.	<ol> <li>Wastes produce leachate with unexpected contaminant levels.</li> </ol>	Effluent quality exceeds sewer discharge guidelines.	Terminate sewer discharge immediately. Store leachate in sewer discharge equalization pond, or, if necessary, recirculate leachate into wastes.
			Negotiate provisions for continued discharge (e.g., negotiate overstrength agreement with Region).
			If necessary, in long-term retrofit leachate pre-treatment plant to allow continued sewer discharge.

		Table 18: Contingency Plans Related to Gas Control	Control
	Scenario	Indicator	Contingency Action
1. Subsu combu	Subsurface migration of combustible gases beyond gas venting system.	Detection of combustible gases in subsurface gas monitors within landfill buffer zone.	Ensure safety of any nearby buildings that could be affected by combustible gases by checking confined spaces with portable gas meter. If necessary clear buildings of occupants.
			Increase frequency of monitoring of buffer zone gas monitors to three times weekly to determine if gas occurrence is persistent or an isolated occurrence.
			If determined to be a persistent occurrence a detailed investigation of gas control system would be carried out. Modifications to passive venting system would be made as required. Modifications could include retrofitting system with powered suction fan.
			(A) 1. 1. 2.

#### 10.0 SITE CLOSURE AND END USE

#### 10.1 CLOSURE ACTIVITIES

Following the completion of landfilling operations the site will be closed so that the wastes, leachate, and landfill gas does not impact the environment or public health and safety in the future. Closure activities will generally consist of the following:

- a) construction of a final cover on the wastes (progressively as the site is filled);
- b) continued operation of the leachate collection system to maintain minimal head on the primary liner;
- c) continued saturation of the hydraulic control layer to maintain an inward flow across the primary liner;
- d) monitoring of hydraulic control layer water and it's replacement as necessary;
- e) continued operation of the gas venting system;
- f) a program of continued maintenance, monitoring, and reporting; and,
- g) commitment of financial assurances to ensure that sufficient funds exist for the long-term care of the site.

The various control systems will be operated and maintained until the wastes can no longer adversely affect the environment. The length of time for which these activities will be carried on will be determined by the MOEE based on routine term monitoring of the site. The long term operating, maintenance, and monitoring activities are presented in Sections 6 and 7 of this document. The contingencies outlined in Section 9 will also be available for the duration of the long-term care period.

#### 10.2 END USE PLANNING

Taro has committed to negotiating an end use plan with the community. However, the Study Group have indicated that it is premature to begin these discussions at this time. This is a reasonable approach given that the character of the community, and its needs, are evolving as the area continues to develop. Taro's proposal, therefore, does not include a specific end use plan, but it provides flexibility to adopt a variety of end uses that could be considered by the community. An open space recreational end use concept is one of the options which we believe is compatible with the current design, and is likely to be considered as an alternative by the community.

Regulatory approval for site end use is currently granted under Section 46 of the Environmental Protection Act. According to the Act, approval can occur only after the site is closed and is at the discretion of the Minister of the MOEE.

#### 10.3 CONTINGENCIES FOR PREMATURE LANDFILL CLOSURE

The planned landfill operating period is 20 years, and Taro considers that the landfill operation will be viable for that length of time. It is, however, prudent to consider the actions that would be required to close the site in an environmentally sound manner if operations ceased prior to the end of the planned operating period.

We believe that one of the most important considerations is to ensure that leachate control is maintained in the long-term. The key requirement in this regard is the presence of a continuous leachate collection system, liner system, and hydraulic control layer across the base and on the side slopes of the site. This is necessary to permit the saturation of the hydraulic control layer for the long term.

If closure were to occur prior to the completion of liner construction in all areas, the main goal would be to complete construction of the liner system and cover so that the wastes would be completely enclosed, and that all main leachate control functions could be carried out. This would involve the following:

- a) Some wastes would possibly be relocated to provide a final contour that is acceptable visually and adequately sheds runoff.
- b) A continuous permanent earth berm would be constructed around the exposed perimeter of the wastes landfilled to that point in time. These berms would be joined to the existing base side slopes.
- c) The liner system, including the hydraulic control layer, would be constructed against these berms and joined to the liner on previously existing slopes.
- d) The various controls associated with the liner system, such as the injection/extraction wells, would be constructed within the new liner system. If closure had to occur prior to Phase 4, then a new location would be chosen for the permanent leachate and ground water pumping stations (i.e., at the low point of reduced landfill).
- e) Other associated works could be relocated as necessary, including the water main that would supply the injection wells, and a leachate sewer to serve the pumping station, if it had been relocated.

f) The final cover would be constructed over the wastes and keyed into the liner system, as per the overall design concept.

We consider that all other essential functions, such as gas controls, and monitoring facilities, could be relocated accordingly.

#### 11.0 FINANCIAL ASSURANCES

Taro is currently in the process of negotiating draft terms and conditions for the site's Certificate of Approval with the community. One of the topics addressed in these negotiations is financial assurances. Once these discussions are concluded Taro will be in a position to present the details of the financial assurances that will be provided.

In general, financial assurances will be established by Taro to provide funds, if necessary, for the following:

- a) carrying out the requirements of the site's Certificate of Approval;
- b) the provision of alternate water supplies to area residents which become contaminated due to landfill-related impacts; and,
- c) remediating any adverse environmental effects related to the landfill, either during or after the site's operating period.

The financial assurances will be provided in the form of irrevocable letters of credit from a chartered bank, or as direct cash payments to the Minister of Finance.

Report Prepared By:

GARTNER/LEE LIMITED

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#### 13.0 GLOSSARY OF TERMS

Berm:

An earth barrier used as a mitigative measure against visual and noise impacts or to contain liquids.

Biofouling:

The blockage of landfill drainage systems due to the growth of organic matter, created by microorganisms which feed on the organic fraction of the waste.

Buffer:

In a land use content, a buffer can be:

- 1. a space; or
- 2. a feature; or
- 3. a land use; or
- 4. any combination of the above, interposed between two conflicting land uses for the purpose of reducing or eliminating the adverse effects of one land use upon the other. A buffer may be open space, where distance alone is relied upon to produce the desired results, or it may be a berm, wall, fence, or other structure or plantings, or other land use different from the two conflicting ones, but compatible with both.

Buffer Zone:

In a landfill context, the area between the edge of the waste and property boundary, established to provide space for remedial measures, for the reduction or elimination of adverse environmental impact, and for monitoring.

Certificate of
Approval (C of A):

A Provincial Certificate of Approval is required under Part V, Section 27 of the Environmental Protection Act to establish a waste management system or a waste disposal site. This is the licence granted by the regulating agency which permits the operation of the landfill by the applicant or its agents. In Ontario, Certificates of Approval are granted by the Ontario Ministry of the Environment and Energy (MOEE). The Certificates often specify numerous conditions which must be obeyed in order to retain approval to operate the landfill or waste processing facilities. A Certificate of Approval is required before a waste disposal management system or a waste disposal site can be used, operated, established, altered, enlarged or extended.

Chemical Precipitation:

The process where certain minerals, dissolved in the leachate, may solidify within a landfill drainage system.

Clean Fill:

Is not defined, nor regulated by the Ontario Ministry of Environment and Energy. Taro defines clean fill as fill that, when tested by the U.S. EPA Distilled Water Leachate Test, meets Ontario Drinking Water Objectives.

Concentration:

The relative fraction of one substance in another, normally expressed in weight percent, mass percent, volume percent, weight per volume, or as mass per volume.

Contaminant:

A compound, element or physical parameter usually resulting from human activity or found naturally at elevated concentrations, that have or may have a harmful effect on public health or the environment.

Contaminant
Attenuation
Zone (CAZ):

The MOEE's Reasonable Use Policy deals with situations where a proponent cannot practically prevent impairment of a neighbour's ground water quality. Through negotiation between the proponent and the neighbour, a Contaminant Attenuation Zone (CAZ) may be designated on the neighbouring property. As such, the neighbour formally recognizes that the ground water beneath his or her property may not be suitable for certain purposes (e.g. drinking). The agreement is often registered on the title to the neighbour's property.

Contaminated Soil:

A soil which does not meet the standard for the proposed use of the soil according to Ministry of the Environment and Energy guidelines. Guidelines, based on the extent of exposure of humans to the soil, outline maximum allowable concentrations of various chemicals. Soils are categorized as having agricultural, residential or industrial purposes on the basis of soil test results.

In Ontario, contaminated soil is regulated by the Ministry of the Environment and Energy based on three categories. Each category allows certain concentrations of contaminants in the soil according to the proposed use of the land. The categories are:

- a) Soil used for agricultural purposes,
- b) Soil used for residential purposes, and
- c) Soil used for industrial purposes.

When land use is changed from one category to another, soil that does not meet the standard for the proposed use is considered contaminated and must be treated or removed. The soil is tested and compared to MOEE guidelines for concentrations of chemicals allowed in each category. The MOEE categories are generally based on the extent of exposure of humans to the soil. The soil must also meet the non-hazardous waste criteria and the landfilling of the soil requires that the final plan for the landfill will provide adequate cover to prevent human contact with the contaminated soil.

Contingency Measures:

These are the planned measures employed in case unforeseen problems with the operation of the landfill occur.

Degradation:

The lowering of the quality or value of a substance or object, usually air or water quality.

Design Capacity:

The maximum amount of waste that is planned to be disposed of at a landfill site.

Disposal:

The MOEE definition of disposal is the discharge, deposit, injection, dumping, filling or placing of solid waste into or on any land or water.

Dust:

Fine grain particles light enough to be suspended in air.

Environment:

The definition of "environment" in the Environmental Assessment (EA) Act which includes technical, natural, social, economic, and cultural factors, and their interrelationships, is as follows:

"Environment", means:

- i) air, land, or water;
- ii) plant and animal life, including man;
- iii) the social, economic and cultural conditions that influence the life of man or a community;
- iv) any building, structure, machine or other device or thing made by man;
- v) any solid, liquid, gas, odour, heat, sound, vibration or radiation resulting directly or indirectly from the activities or man; or
- vi) any part or combination of the foregoing and the interrelationship between any two or more of them.

Facility:

In this context, a solid waste disposal facility such as a landfill site.

Final Cover:

A cap constructed over the completed surface of a landfill, usually composed of soil, but sometimes also incorporating synthetic membranes. The cover serves several purposes including: a physical barrier to prevent contact with buried wastes, reducing the infiltration of rain into the waste (to limit the production of leachate) and controlling the escape of any gases into the atmosphere. Another aspect in designing the final cover is to make it compatible within the ultimate end—use of the site.

Gas Collection System:

An engineered system to contain and collect landfill gas for safe dissipation, and/or energy recovery. It is commonly constructed of a combination of coarse gravel layers, wells, pipes and/or pumps.

Gas Monitor:

An instrument used to detect the presence and or concentration of gas. Gas monitors at landfill sites typically consist of a perforated pipe installed into a borehole above the water table. Ground water monitors can, in some cases, be used as gas monitors.

Gas Vents:

Engineered works designed to promote the free venting of subsurface gases to the atmosphere. Gas vents at landfill sites often consist of trenches excavated down to the water table and backfilled with coarse gravel.

Generator:

Any person, or corporation, who, by virtue of ownership, management, operation or control causes or allows to be caused, the creation or storage of wastes.

Ground Water:

Includes all subsurface water, both above and below the water table.

Ground Water
Collection
System:

An engineered system to control and/or collect ground water in and around a landfill. It is usually designed to collect water by gravity flow, and is usually constructed using a combination of wells, coarse drainage layers, pipes and/or pumps. It is commonly used to control ground water during landfill construction or as an adjunct to gas/leachate collection systems. A secondary function may be to provide a back-up (contingency) to the leachate collection system and liner by collecting any leachate that unexpectedly leaks through. Such a system may also be retrofitted to a site to collect leachate—affected ground water.

Ground Water Monitor:

An instrument used to measure the elevation of and sample ground water. These often consist of a perforated pipe installed within a drilled borehole. Clean coarse sand is packed within the borehole in the zone where the pipe is perforated, to minimize the entry of soil particles into the pipe. The borehole above the perforated zone is typically sealed with low-permeability material to prevent surface water flowing into the borehole.

Grout Curtain:

A ground water flow barrier constructed by drilling a series of closely-spaced boreholes into soil or rock followed by injection of cement under pressure into the boreholes. The cement flows into pore spaces in the soil or into rock fractures and thus blocks ground water flow pathways.

Hazardous Waste:

Is defined by the Ministry of the Environment and Energy in Environmental Protection Act Regulation 347. The definition of hazardous wastes includes waste such as corrosive waste, reactive waste, a wide range of listed hazardous chemical and pathological waste, all of which are hazardous regardless of concentration. Other wastes are defined in Regulation 347 as hazardous at certain concentrations. The second category includes waste containing specified limits of chemicals such as arsenic, fluoride, DDT and lead. Many contaminants are found in low levels of concentration and become hazardous at higher levels of concentration. Taro will not accept these hazardous wastes.

Hydraulic Conductivity: The hydraulic conductivity is a constant which describes the rate of movement of

ground water through soil or rock. For example, the lower the hydraulic

conductivity, the lower the amount of water will be conducted.

Impermeable: A characteristic of a substance such as clay or plastic, which means it severely limits

the passage or movement of fluids, such as water, through it.

Infiltration: The flow of water downward from the land surface into and through the upper soil

layers.

Land Use: Any existing or proposed activity, structure, service, facility or natural feature, either

at, above or below grade.

Landfilling: The disposal of waste by deposit, under controlled conditions, on land, including

compaction of the waste into a cell and covering the waste with cover materials at

regular intervals.

Leachate: The liquid that has infiltrated through solid waste, and has dissolved soluble

components from the waste.

Leachate Collection

System:

An engineered system to control and collect leachate within a landfill. It is usually

constructed of a combination of wells, coarse drainage layers, pipes and/or pumps.

Leachate Monitoring

System:

A system of strategically placed wells or other measuring devices for scrutinizing and assessing qualitatively the movement of leachate off-site and its effect on

adjacent ground and surface water resources.

Leachate Recirculation: A leachate management practice sometimes used at landfill sites to temporarily

store the leachate within the wastes. It involves collecting leachate that flows out of wastes and conveying it back into the waste mass. Leachate recirculation generally cannot be carried on for long periods of time since the quantity of leachate

being handled continually increases due to conversion of infiltration to leachate.

Leachate Treatment

System:

An engineered system to improve the quality of leachate or leachate – impacted waters by physical and chemical processes. Pre-treatment refers to partial

improvement in quality prior to some other form of treatment or disposal.

Methane Gas: An odourless, colourless, combustible and potentially explosive gas that is lighter

than air, produced as a by-product of the process of decomposition of organic

wastes.

MOE: The Ontario Ministry of the Environment (before March 1993).

MOEE:

The Ontario Ministry of Environment and Energy (after March 1993).

Monitoring:

Regular or spontaneous procedures used to methodically inspect and collect data on the performance of a landfill site relating to environmental quality (i.e., air, leachate, gas, ground or surface water, etc.).

Non-Methane Organic Compounds (NMOCs): A general term applied to a group of volatile chemical compounds often present in low concentrations in landfill gas. Typical NMOCs contained within landfill gas include hydrocarbon gases such as benzene. The presence or absence of these compounds in landfill gas is heavily dependent upon the composition of the wastes in the landfill.

Non-putrescible Waste: Material that does not undergo significant organic decomposition or decomposes extremely slowly.

Off-Site:

In a landfill context, off-site means beyond the property boundaries.

On-Site:

In a landfill context, on-site means within the property boundaries.

Ontario Drinking Water Objectives (ODWOs):

A set of criteria designed for the protection of public health, and represent a minimum level of water quality that the Ministry strives to maintain in ground water in Ontario. These criteria are described and defined in and MOEE document entitled Water Management - Goals, Policies, Objectives and Implementation Procedures of the Ministry of the Environment, November 1978 (revised May 1984).

Organic / Organic Material:

Chemical substances comprised mainly of carbon. May have its origin in animal or plant life, coal, petroleum, or laboratory synthesis.

Permeable Material:

A porous substance which allows the passage, or movement of fluids through it. Generally used to refer to soils or rock within a relatively high hydraulic conductivity (i.e., sandy soils).

Provincial Water **Ouality Objectives** (PWQOs):

A set of criteria designed for the protection of aquatic life and recreation in and on the water. They represent a desirable level of water quality that the Ministry strives to maintain in surface waters of the Province. These criteria are described and defined in and MOEE document entitled Water Management - Goals, Policies, Objectives and Implementation Procedures of the Ministry of the Environment, November 1978 (revised May 1984).

Putrescible:

Material that undergoes significant decomposition, typically food or kitchen waste.

Reasonable Use Policy (RUP):

The Reasonable Use Policy is aimed at ensuring that a proponent's undertaking does not impair the 'reasonable use' of ground water on neighbouring properties. It sets limits to the level of ground water impact that can occur at the proponent's site property boundaries. The policy is described in detail in a document entitled The Incorporation of the Reasonable Use Concept into the Ground Water Management Activities of the Ministry of the Environment, Ontario Ministry of the Environment,

Water Resources Branch, September 1986.

Refuse:

All solid materials which are discarded as useless.

Regulation:

A specific law that legally applies in all relevant situations.

Remedial Action:

Corrective action taken to clean-up or remedy a spill, an uncontrolled discharge of a contaminant, or a breach in a facility or its operations, in order to minimize the consequent threat to public health and the environment.

Residual Waste:

The waste that is left after practical waste reduction, reuse and recycling measures have been completed.

Runoff:

The water leaving a drainage area; the water running across the land surface.

Siltation:

The gradual clogging of a landfill drainage layer due to fine particles being carried in from the waste with the movement of leachate.

Surface Water:

Water that is derived from rainfall runoff, snow melt and ground water discharge which occurs at the earth's surface (e.g., ponds, streams, rivers, lakes).

Waste Disposal Site:

Includes the fill area and the buffer area. Also referred to as a landfilling site. Means any land, building or structure in which, waste is deposited or processed including any machinery or equipment or operation required for treatment or disposal of waste (Environmental Protection Act).

Ministry of the Environment and Climate Change Operations Division Floor 12A 2 St Clair Ave W Toronto ON M4V 1L5 Fax: (416) 314-8452

Telephone: (416) 314-7150

Ministère de l'Environnement et de l'Action en matière de changement climatique

Division des Opérations Étage 12A 2 av St Clair O Toronto ON M4V 1L5 Télécopieur : (416) 314-8452 Téléphone : (416) 314-7150



March 6, 2015

Todd Moser, President and CEO Revolution Landfill Acquisition GP Inc. 1100 Burloak Drive, Suite 200 Toronto, Ontario L7L 6B2

Dear Mr. Moser:

Re:

Notification of Change of Ownership MOE Reference Number 6809-9UAS3C

The Ministry of the Environment (the "Ministry") acknowledges receipt of your letter dated February 25, 2015 requesting a change in company ownership:

FROM:

Newalta Corporation

TO:

Revolution Landfill Acquisition GP Inc.

Business/Facility Name: Revolution Landfill LP

By this letter, the Ministry advises you that your notification of change in company ownership has been registered in our records for the following Approval(s):

## [Approval(s) - Project type: Waste]:

A100140

A181008

A130404

A100143

The Ministry will not be providing you with an amended approval(s) to reflect the change in company ownership. Therefore, this letter must be appended to its corresponding approval(s). The ownership change will be included in any future amended approval(s).

If you have any questions regarding the above, please contact me at the above phone number.

Yours truly,

Vivian Tsapas

**Application Processor** 

cc: Craig Hiebert, Newalta Corporation

File Storage Number: 100140; 181008; 130404

Ministry of the Environment Operations Division 1st Floor 135 St Clair Ave W Toronto ON M4V 1P5 Fax: (416) 314-8452 Telephone: (416) 212-3711 Ministère de l'Environnement

Division des Opérations 1er étage 135 av St Clair O Toronto ON M4V 1P5 Télécopieur : (416) 314-8452 Téléphone : (416) 212-3711



January 26, 2016

Todd Moser, President and CEO Revolution Landfill Acquisition GP Inc. 1100 Burloak Dr, Suite 200 Burlington, Ontario L7L 6B2

Dear Sir:

Re: Financial Assurance for Approval No. A181008

**Project Type: Waste Disposal Sites** 

**Renewal Certificate** 

We acknowledge receipt of Renewal Certificate for Bond No. M216183, dated November 20, 2015, from Ace Ina Insurance Company, in the amount of \$10,955,237.00, extending the term from October 29, 2015 to October 29, 2016. This renewal will be forwarded to our Business and Fiscal Planning Branch.

If you have any questions regarding the above, please contact Vivian Tsapas at the above phone number.

Yours truly,

Karlene Chang

Supervisor, Application Assessment Unit

c: District Manager, MOECC Hamilton - District
 Richard Brown, MOECC, Business and Fiscal Planning Branch
 Mary Ouroumis, MOECC, Environmental Approvals Access and Service Integration Branch



November 23, 2015

The Director
Ontario Ministry of the Environment and Climate Change
Environmental Approvals Access & Service Integration Branch
2 St. Clair Avenue West, 12<sup>th</sup> Floor
Toronto, Ontario
M4V 1L5

RE: Revolution Landfill Acquisition GP Inc. Renewal Bonds

Dear Sir / Madam:

Please find enclosed Renewal Certificate Bond No. M216183 in the amount of \$10,955,237.00 for our Landfill (ECA No. A181008) located at 65 Green Mountain Road in Stoney Creek, Ontario.

Also enclosed is Renewal Certificate Bond No. M217662 in the amount of \$3,578,733.00 for our closed Landfill (ECA No. A130404) located at 341 First Road West in Hamilton, Ontario.

Should you have any questions or require any additional information, please do not hesitate to contact me at 905-315-2225.

Yours truly,

Brad Bodo

EHS Manager

Bul 3, C.

## ACE INA INSURANCE

1400-25 York Street, Toronto, Ontario M5J 2V5

#### RENEWAL CERTIFICATE

COMPANY AND BOND NO:

ACE INA INSURANCE

Bond No. M216183

NAME OF PRINCIPAL:

Revolution Landfill Acquisition GP Inc.

**OBLIGEE:** 

MINISTER OF ENVIRONMENT ONTARIO

TYPE OF BOND:

Environment Protection Act Bond

AMOUNT:

\$10,955,237.00

TERM:

FROM:

29th day of October, 2015

TO:

29th day of October, 2016

IN CONSIDERATION OF THE PAYMENT OF THE PREMIUM STIPULATED HEREIN, THE ABOVE NUMBERED BOND IS HEREBY CONTINUED FOR THE FURTHER PERIOD STATED ABOVE, SUBJECT TO ALL THE AGREEMENTS, PROVISIONS AND CONDITIONS OF THE SAID BOND AS WELL AS THOSE OF ANY ENDORSEMENT THEREOF, PROVIDED ALWAYS THAT THE LIABILITY OF THE SURETY COMPANY UNDER THE SAID BOND AND THE CONTINUATIONS THEREOF SHALL NOT BE CUMULATIVE, AND THAT THIS CERTIFICATE SHALL NOT BE VALID UNLESS COUNTERSIGNED BY A DULY AUTHORIZED REPRESENTATIVE OF THE SURETY COMPANY.

SIGNED AND SEALED THIS 20th DAY OF November, 2015

ACE INA INSURANCE

JANICE OEHM

AUTHORIZED AGENT OR ATTORNEY-IN-FACT



TARO EAST QUARRY ENVIRONMENTAL ASSESSMENT WASTE AND LEACHATE CHARACTERIZATION REPORT

PREPARED FOR: TARO AGGREGATES LTD.

PREPARED BY: GARTNER LEE LIMITED

**JANUARY, 1995** 

GLL 94-407

Consultants In The Environment

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140 Renfrew Drive, Suite 102, Markham, Ontario L3R 6B3 Fax (905) 477-1456

(905) 477-8400

Consultants Environment

#### Expertise

Environmental Planning Ecological Science Geoscience Engineering

#### Services

Planning Implementation Monitoring Remediation January 19, 1995

Taro Aggregates Ltd. 65 Green Mountain Road Stoney Creek, Ontario L8J 1X5

Attention:

Mr. John Fisher General Manager

Dear Mr. Fisher:

Re: <u>Taro East Quarry Environmental Assessment – Waste and Leachate</u>
<u>Characterization Report</u>

We are please to provide you with the Waste and Leachate Characterization Report for the proposed East Quarry Landfill. This report is a supporting technical document to the Taro East Quarry Environmental Assessment.

We hope that this report meets with your approval. If you have any questions, please contact us.

Yours very truly, GARTNER LEE LIMITED

P.C. Murray, P.Eng. Consulting Engineer Principal

HM:mm Attach.



: :

## **EXECUTIVE SUMMARY**

Taro Aggregates Ltd. (Taro) operates the West Quarry Landfill, located in Stoney Creek, Ontario. The site is nearing it's design capacity and Taro wishes to continue the landfilling business in its adjacent East Quarry. This report is a supporting technical document to the East Quarry Environmental Assessment.

The Ministry of Environment and Energy (MOEE) Policy No. 14–15 Engineered Facilities at Landfills that Receive Municipal and Non Hazardous Wastes requires that a landfill proponent demonstrate that the engineered systems necessary to control leachate can be maintained for at least as long as the leachate would cause unacceptable impacts on the surrounding environment. In other terms, the service life of the engineered systems must exceed the contaminating lifespan of the leachate.

In support of the East Quarry Environmental Assessment, the objective of this report is to determine the contaminating lifespan of the proposed East Quarry landfill.

The existing West Quarry Landfill, currently accepts non-hazardous solid industrial wastes as defined by the MOEE Regulation 347. The proposed East Quarry Landfill will accept a waste stream within these same guidelines. Therefore, the West Quarry Landfill was used to make predictions about the types of waste and leachate that will likely exist in the East Quarry Landfill.

The West Quarry Landfill waste was characterized using data from bulk analyses of recently tested waste as well as historic bulk analyses and leach tests. The chemical information collected through these analyses correlates well with the parameters found in the existing West Quarry Landfill leachate. This characterization was then reviewed to discount any wastes that will not be accepted in the East Quarry Landfill.

Through their experiences in the West Quarry Landfill, Taro has decided not to accept certain wastes that were historically accepted in the West Quarry Landfill. For example, certain wastes that resulted in high concentrations of chloride in the leachate. Therefore, the East Quarry Landfill leachate composition was determined by mathematically altering the West Quarry Landfill leachate to remove the effect of these wastes. This theoretical leachate is similar to the West Quarry Landfill leachate that exists in areas with limited amounts of the waste that will be excluded.

The West Quarry Landfill leachate data was compared to leachate data for the Brow Landfill, a landfill that has accepted only non-hazardous solid industrial wastes. Although the Brow has

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(1160119/94407/95)

historically accepted a much broader range of industrial wastes, the leachates from the two landfills were similar. This would indicate that changes in the waste stream, within the Regulation 347 guidelines, will not likely cause a significant change in the leachate composition.

The predicted East Quarry Landfill leachate composition was then compared to the background water quality and the MOEE's Reasonable Use Policy limits. This comparison was used to determine the critical contaminants expected in the East Quarry Landfill leachate. These are compounds that could potentially exceed the Reasonable Use Policy limits at the property boundary if not contained in the landfill. Fluoride and sodium are expected to be the critical contaminants in the East Quarry Landfill leachate.

The contaminating lifespan was then calculated for both fluoride and sodium based on the information discussed above. The predicted contaminating lifespan is estimated to be in the range of 200 to 300 years. This range is similar to that reported in the literature available on contaminating lifespan in landfills.

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## PROPOSED EAST QUARRY LANDFILL

Waste and Leachate Characterization Report

## 1.0 INTRODUCTION

#### 1.1 BACKGROUND

Taro Aggregates Ltd. (Taro) operates the West Quarry Landfill, located in Stoney Creek, Ontario. The site is nearing it's design capacity and Taro wishes to continue the landfilling business in its adjacent East Quarry. This report is a supporting technical document to the East Quarry Environmental Assessment.

When rainwater percolates through landfills, a liquid called "leachate" is produced. In most cases this leachate must be controlled by engineered systems (for example covers, liners and leachate collection systems). While engineered systems can be maintained and, to some extent, repaired and replaced, they do have a finite service life. On the other hand, leachate strength decreases with time, as various minerals, elements, and chemical compounds are dissolved out of the waste.

The Ministry of Environment and Energy (MOEE) Policy No. 14–15 Engineered Facilities at Landfills that Receive Municipal and Non Hazardous Wastes requires that a landfill proponent demonstrate that the engineered systems necessary to control leachate can be maintained for at least as long as the leachate would cause unacceptable impacts on the surrounding environment. In other terms, the service life of the engineered systems must exceed the contaminating lifespan of the landfill.

This report addresses the issue of contaminating lifespan as an important input to the engineering design of the landfill.

Unlike many other landfill applications where the waste characteristics are unknown and/or there is little or no field data on which to base an analysis, Taro has had the benefit of operating and monitoring the adjacent West Quarry Landfill for a number of years. The West Quarry Landfill accepts non-hazardous solid industrial wastes (NHSIW), as defined by the MOEE Regulation 347, as will the proposed East Quarry Landfill. Since the waste streams at the East Quarry Landfill are expected to be generally similar, an extensive data base regarding waste composition, leachate characteristics and ground water quality is available. Therefore, a reasonable and supportable estimate of the contaminating lifespan for this landfill can be developed.

#### 1.2 STUDY OBJECTIVES

The objective of this report is to predict the overall leachate composition in the proposed East Quarry Landfill for the purpose of assessing the following;

- a) To predict which leachate parameters will likely be critical contaminants in the proposed East Quarry Landfill; and
- b) To predict the potential contaminating lifespan of the proposed East Quarry Landfill.

## 1.3 SCOPE AND REPORT ORGANIZATION

This document forms part of Taro's submission under the Environmental Assessment Act for the East Quarry Landfill. The document is organized as follows:

Section 1, Introduction, discusses the scope and organization of this report.

Section 2, <u>Literature Review</u>, summarizes existing waste and leachate characterization studies carried out as part of other landfill applications. This section also discusses the various approaches to predicting the contaminating lifespan of landfills.

Section 3, <u>Waste Stream</u>, discusses the method by which the existing West Quarry Landfill waste composition was extrapolated to develop an estimate of the future East Quarry Landfill wastes. The general physical and chemical characteristics of the main waste streams currently landfilled in the West Quarry Landfill, and expected in the proposed East Quarry Landfill, are discussed.

Section 4, <u>Leachate Composition</u> discusses the expected chemical composition of the leachate that would be produced by the future waste stream. The West Quarry Landfill leachate is used as a starting point for the composition of the proposed East Quarry Landfill. It also compares the expected leachate to municipal landfill leachates.

Section 5, <u>Critical Contaminants</u> identifies the contaminants that are expected to be present in the leachate in concentrations that could potentially exceed the limits defined by the MOEE's Reasonable Use Policy (RUP).

Section 6, <u>Contaminating Lifespan</u>, presents an estimate of the time period over which the critical contaminant concentrations could exceed Reasonable Use Policy limits. Two methods of calculating the contaminating lifespan are discussed and the results compared.

Section 7, <u>Conclusions and Recommendations</u>, provides a summary of the main results presented in Sections 2 through 5.

Section 8, References, presents a compilation of the other documents that are referenced herein.

Appendices A-F present all of the supporting data and calculations compiled and used in this assessment.

## 2.0 LITERATURE REVIEW

Five recent landfill applications and several journal articles, related to both municipal and non-hazardous solid industrial, commercial and institutional waste landfills in Ontario, were reviewed to determine what approach has been used to calculate the contaminating lifespan of a landfill. The most common approach has been to estimate what will go into the landfill, estimate at what concentrations contaminants will leach out, and then determine how long it will take to leach out the contaminants that could potentially contaminate the environment. The following sections summarize how this has been carried out for the applications reviewed.

## 2.1 WASTE CHARACTERIZATION

For all of the applications reviewed, wastes were characterized in terms of waste types using existing landfills that accepted similar waste streams. To determine the mass of contaminants going into the landfill, either a literature value for specific waste streams was used, or leach tests were run on a waste stream. Generally, limited information on the composition of the waste was provided.

## 2.2 LEACHATE CHARACTERIZATION

With the composition of the expected leachate for these landfills, either existing landfill leachates were used or short term leach tests were run to determine the leachate composition.

## 2.3 CRITICAL CONTAMINANTS

The selection of critical contaminants was based on a number of criteria including: mobility of the contaminant; comparison to the Ontario Drinking Water Objectives (ODWO); and comparison to background water quality. Generally only the most mobile contaminant was used for the calculation of the contaminating lifespan.

### 2.4 CONTAMINATING LIFESPAN

For most of these applications, it was argued that each landfill would operate effectively to prevent contaminants from migrating through the liners at concentrations higher than the regulatory limit. Based on this, it was often rationalized that a detailed calculation of the contaminating lifespan was not necessary. In a number of applications, a literature value of several hundreds of years was quoted (Farquar 1989).

For one application, a short term leach test was conducted to determine the contaminating lifespan of the most mobile contaminant, chloride. Based on this a contaminating lifespan of 60 years was determined.

#### 2.5 DISCUSSION

From a review of recent applications, it is apparent that there has been limited effort to predict the contaminating lifespan of landfills. Based on the review of other applications, Taro identified the need to better predict what will go into and leach out of the proposed East Quarry Landfill.

The proposed East Quarry Landfill will be accepting wastes similar to those accepted in the West Quarry Landfill. Therefore, Taro has been able to collect a significant amount of information on the wastes and leachate expected in the proposed East Quarry Landfill. This information is discussed in the following sections and used to predict a contaminating lifespan of the proposed East Quarry Landfill.

## 3.0 PREDICTED WASTE STREAMS

A prediction of the waste stream in the East Quarry Landfill is required in order to predict the mass of potential contaminants in the landfill. This predicted mass is used to calculate the contaminating lifespan of the landfill.

The proposed East Quarry Landfill will accept wastes under Ontario Regulation 347 for non-hazardous solid industrial, commercial, and institutional wastes. Since the West Quarry Landfill has accepted waste under this regulation, the leachate and waste data for the existing landfill provides a good starting point for the characterization of the proposed East Quarry Landfill. The West Quarry landfill has historically accepted the following:

airset sands
aluminum, steel and copper line
baghouse dust
cable insulation
carbon black
catch basin street sweepings
coal and iron pellets
concrete
construction/demolition debris
contaminated soils
floor and dust sweepings
filters and filter cake
foundry sand

furnace oxides
harbour dredgings
liquid air insulation
mill scale
paraffin wax emulsion
refractory brick
sand blast material
slag and slag fines
sludge cake
soap stone
spill clean up material
urea formaldehyde
waste alumina
zinc

The East Quarry waste streams will likely include the following:

- a) basic oxygen furnace oxides;
- b) baghouse dust;
- c) mixed wastes floor dust and sweepings;
- d) fuel contaminated soils from fuel retail and tank farm decommissioning;
- e) contaminated soils from industrial site decommissioning;
- f) waste clays;
- g) waste lime;
- h) solidified/stabilized industrial wastes;
- i) industrial slags;
- j) construction/demolition waste and rubble;
- k) shredder wastes; and
- 1) waste silica.

In the past, aluminum processing wastes have been accepted at the West Quarry Landfill. Due to operational experience in the West Quarry Landfill, aluminum processing wastes will not be accepted in the East Quarry Landfill. These wastes were found to produce high chloride concentrations in the leachate, which increases the cost of leachate treatment.

As with the West Quarry Landfill, the following waste streams will not be accepted:

- a) residential, agricultural or medical wastes;
- b) liquid wastes;
- c) hazardous wastes as defined by Ontario Regulation 347; and
- d) barrels, drums or other similar containers.

#### 3.1 METHODOLOGY

The waste characterization was carried out in two steps. The first step was to collect and collate all information on the tonnages of waste received at the West Quarry Landfill. The tipping records for the West Quarry were reviewed to collect data on types and amounts of waste going into the site. This information is summarized in Table 1.

The second step in the waste characterization was to collate all chemical data from the analysis of various waste streams taken to the West Quarry Landfill. All wastes received in the West Quarry Landfill are routinely subjected to a number of tests to confirm that they are non-hazardous solid industrial wastes as per regulation 347. Distilled Water Leach Tests and Regulation 347 Acid Leach Tests are conducted to determine the concentrations of arsenic, barium, boron, cadmium, chromium, cyanide, fluoride, lead, mercury, selenium and silver. Taro also tests for chlorophenols, ammonia and chloride as part of the distilled water leach test. The concentration of these parameters must meet the limits outlined in the Waste Control Procedures at Taro Aggregates Ltd West Quarry Landfill Site, dated September 13, 1994. These guidelines are part of Taro's ongoing waste control procedures. In addition to the leach tests, historic bulk analysis information is available for a number of waste streams for a limited number of parameters. All historic data have been tabulated in Appendix A.

For the purpose of this study, further bulk analyses were conducted on waste streams currently entering the West Quarry Landfill. The parameters analyzed include the inorganic and organic parameters that are analyzed for in the routine landfill leachate and ground water monitoring program. In addition, a number of waste samples collected between October 1993 and April 1994 were analyzed for these same inorganic parameters. (These samples had been submitted to the laboratory for leach tests, and then stored at the laboratory. There would be no degradation of the inorganic parameters.) Acid and aqueous leach information is also available for each of these waste streams. All data available are contained in Appendix A. A summary table of average concentrations for the main waste groups is also contained in Appendix A. This table also includes the historic bulk analysis information for the aluminum processing waste.

The bulk analysis was conducted on a total of 18 samples including: 11 contaminated soils/rubble; four blast furnace oxide samples; and three approved mixed waste samples. One set of bulk analysis data was available for the historic aluminum processing wastes. It was assumed that the average for each waste group would be representative of the overall chemistry of that group and that they would be representative of the East Quarry Landfill wastes.

## 3.2 PREDICTED WASTE STREAMS QUANTITIES

The main waste streams received in the West Quarry Landfill have been contaminated soils, Dofasco approved mixed wastes, and Dofasco oxides. These waste streams make up 100% of the current waste

TABLE1: Waste Accepted At Taro West Quarry Landfill From 1980 to February 1994

							Quantities Of	Quantites Of Waste (tonnes) By Year YEAR	) By Year							
Waste Stream	98	10	82	83	2	88	98	87	88	98	8	16	28	83	to Feb	Total
Conterminated Soils/Rubble		103	ß		2040	ន	280	4297	98893	70446	109627	157973	258882	344560	24284	1071819
Dols sco Approved Mixed Wastes Basic Oxygen Furnece Oxides Other Dolssco Wastes			83636	137340	190629	173608	152599	139483	117701	190289 73286 38597	107321 113820 24397	92582 131775	98434 54153	45177 53810	3862	1532681 815766 64027
Industrial Sands/Dusts/Ashes		14099	6110	Ŕ	55	3550	25604	76272	19418	375	a	18				146164
Misc Industrial Wastes	TZZ	8268	2035	1948	7703	479	1,111	8	380		23662	5007		14.11.0		53448
Stags (including aluminum processing weste)		1500	1045			82	ĸ	2061	47443	76646	32826	16337				177951
tomis	TZZ.	24069	119805	139600	200607	372045	237511	272061	339675	450840	411672	300784	411460	443576	37166	3862057

						ď	rcent Of Each	Percent Of Each Major Waste Stream By Year	treem By Year							
Weste offerin	8	5	28	3	2	85	98	87	8	8	8	5	28	83	to Feb	Total
																Overall %
Conterminated Soils/Rubble	0	0	0	0	**	0	0	∾.	83	9	22	\$	8	82	8	8
Dofts										-					,	,
Approved Mixed Wastes	0	•	2	8	8	47	8	.5	8	<b>Q</b> :	8 8	88	* :	2 5	2 %	3 8
Basic Oxygen Furnace Oxides	0	•	9	•	0	33	24	9	<b>9</b>	9 '	R '	3 9	2 0	<u>y</u> (	g	, (
Other Dolasco Wastes	0	•	•	0	0	•	0	0	0	Э	Ď	<del></del>	•	•	•	•
Industrial Sands/Dusts/Ashes	0	8	w	0	0	-	F	8	•	0	0	•	•	0	0	<b>→</b>
Misc, Industrial Wastes	ã	8	<b>10</b>	-	4	0	-	0	0	0	•	•	0	0	•	<b>-</b>
e de is	0	7	<del>-</del>	0	0	0	0	<del>-</del>	=	11	•	<b>-</b>	0	0	0	v
(including aluminum processing veste)																
totals	100	100	001	92	8	8	8	õ	ā	ş	õ	8	8	8	ã	8

			-
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stream and approximately 89% of all waste accepted in the West Quarry Landfill (Table 1). The remaining 11% consists of foundry sands (3.5%), aluminum processing wastes (4.5%) and other wastes (3%).

For the purpose of calculating the contaminating lifespan, the waste stream quantities for the proposed East Quarry Landfill were predicted by adjusting the percentages of the West Quarry Landfill waste streams to reflect the removal of the aluminum processing wastes. (No aluminum processing wastes will be landfilled in the proposed East Quarry Landfill). These adjusted percentages are shown on Table 2.

## 3.3 PREDICTED WASTE STREAM CHARACTERISTICS

As discussed in Section 3.1, the second step of the waste characterization was to collate all chemical data on the various West Quarry Landfill waste streams to form a basis for assessing waste stream characteristics and leachate composition at the proposed East Quarry Landfill. The chemical data includes laboratory leach tests and bulk analyses.

Leach tests provide some information on how various parameters may dissolve out of the waste. They may not fully simulate waste leaching under field conditions and may underestimate field concentrations.

Bulk analyses provide total parameter concentrations in the waste rather than soluble parameter concentrations or total soluble quantities of these parameters. For example, contaminated soils are generally soils coated in some form of contamination. Normally, only the contaminants on the soils are soluble and add to the leachate. With bulk analyses, the soils grains are also analysed and contribute to the total mass. The soils grain would not normally dissolve and therefore would not contribute to the leachate. Therefore, the concentrations from the bulk analyses will generally overestimate the total soluble mass of a given parameter, making the contaminating lifespan estimation more conservative.

The following sections discuss the physical character and chemical composition of each of the main waste streams. Other waste types expected in the East Quarry Landfill are also discussed briefly. The discussion includes suggestions on how each waste stream will influence the chemical composition of the landfill leachate.

## 3.3.1 Dofasco Approved Mixed Wastes (AMW)

A variety of wastes are included in the Approved Mixed Wastes. These include baghouse dust, concrete, excavated materials, floor sweepings, foundry sands, mill scale, rubble waste materials,

TABLE 2: Predicted East Quarry Landfill Waste Stream Project No. 94-407

	Measured	Predicted	þ
	West Quarry Landfill Wastes (total quantity of main waste streams from 1980 to February 1994	West Quarry Landfill Wastes adjusted to reflect the exclusion of aluminum processing waste	Predicted percentages expected in the East Quarry Landfill based on adjusted West Quarry Landfill
	tonnes	tonnes	*
Dofasco Waste Approved Mixed Waste	1,532,881	1,532,881	42
Oxides	815,766	815,766	22
other	64,027	64,027	Ø
Industrial sands/dust/ashes	146,164	146,164	4
Slags Aluminum Processing Wastes	173,659	0	0
Other Slags	4,292	4,292	⊽
Contaminated Soils / Rubble	1,071,819	1,071,819	53
Misc Industrial Wastes	53,448	53,448	-
		,	
Total waste tonnage	3,862,057	3,688,397	100

mixed wastes, solid industrial wastes, and slags. Each of these waste types have been historically sampled to ensure that they meet site requirements. Three samples were recently collected from this waste stream and submitted for bulk analysis. The historic and recent bulk analyses indicate that the wastes, as a group, contain significant amounts of aluminum, fluoride, sulphur, silica, iron, calcium, sodium and barium. However, only calcium and sodium occur in readily soluble form and are likely to influence the future East Quarry leachate. Some of the wastes also contain high phenol concentrations compared to other current waste streams.

Although this waste stream contains a wide variety of waste types, the processes which generate this waste are relatively consistent. Therefore, the makeup of the waste would not be expected to change significantly over time.

## 3.3.2 Contaminated Soils/Rubble

Contaminated soils/rubble generally consist of contaminated soils from remediation, decommissioning, and spill clean up sites. It also includes fuel contaminated soils from fuel retail and tank farm decommissioning. The majority of the soils are contaminated with hydrocarbons, with a lesser amount of metal contaminated wastes.

Eleven recently collected contaminated soil samples were submitted for bulk analysis. Six of these were analyzed for the full range of organics and inorganics, the other five for inorganics only (as they had been stored at the laboratory for a period of time). A relatively large number of samples were used because of the expected variability in this waste stream.

From a review of the bulk and the leach test analyses of these wastes, contaminated soils are expected to leach hydrocarbon related organics, and some chloride, sulphate, ammonia and TKN (Total Kjeldhal Nitrogen, includes ammonia plus organic nitrogen). The inorganic parameters are relatively soluble and would influence the composition of the future East Quarry leachate. Although these soils contribute hydrocarbon related contaminants, the mass of these compounds is relatively low with respect to the volume of leachate produced. Therefore, the leachate has relatively low hydrocarbon concentrations overall. The East Quarry Landfill leachate is expected to have a similar low concentration of hydrocarbons.

## 3.3.3 <u>Dofasco Oxides</u>

Dofasco basic oxygen furnace oxides are a metal waste product from the steel making process. They consist of dust precipitated from the basic oxygen furnace and contain calcium, magnesium, iron, zinc,

and other trace metals. Based on the bulk analysis information, this waste stream does not have as high concentrations of most parameters as the other waste streams. However, the dissolution of these oxides will likely affect the pH of future East Quarry leachate, possibly raising the pH above 10. This is also the case in the West Quarry Landfill. These wastes will also contribute ammonia to the leachate, although the ammonia in the oxide is only 5% of that found in the aluminum processing waste. The oxides also contain high amounts of iron, lead and zinc compared to the other waste streams but the solubility of these metals is low, at the predicted pH and pe of the leachate, and will not significantly affect leachate concentrations (see Section 3.3.2 for more details).

#### 3.3.4 Other Waste Streams

In the West Quarry Landfill, there does not appear to be any other waste type that contributes a significant amount of any particular contaminant to the leachate. The same is assumed for the proposed East Quarry Landfill.

The information on the aluminum processing wastes indicated that this waste was the main source of sodium, chloride, fluoride, ammonia, TKN, aluminum, chromium, copper, and titanium in the West Quarry Landfill. This list is based on the bulk analysis of the aluminum processing waste compared to the average bulk analysis concentrations in the other wastes. However, as noted previously, these wastes will not be accepted at the East Quarry Landfill.

## 4.0 PREDICTED LEACHATE COMPOSITION

The following sections discuss the methodology and the prediction of the proposed East Quarry Landfill leachate concentrations. The selection of the "critical contaminants" is discussed in Section 5.0.

#### 4.1 METHODOLOGY

The leachate composition which may be expected in the proposed East Quarry Landfill was predicted on the basis of leachate sampling in the West Quarry Landfill and upon various assumptions regarding expected differences in waste streams between these two landfills (see Section 3.0). Two methods were employed to predict leachate composition in the proposed East Quarry Landfill.

The first method simply involved using the leachate composition in those areas of the West Quarry Landfill which have received wastes with little or no aluminum processing wastes. A limitation to this method is that some newer wastes have been landfilled along with the aluminum processing wastes that would not be reflected in the non-aluminum waste leachate. To compensate for this limitation, the leachate in the aluminum processing waste areas was also reviewed to determine if any of the elevated parameters could not be accounted for by the aluminum processing wastes. If parameters were identified, it was assumed that they were the result of a newer waste and therefore, could be found in the East Quarry Landfill leachate.

The second method involved estimating the resultant leachate composition after removing the effects of aluminum processing wastes from "recirculated" leachate from the West Quarry Landfill. (Recirculated leachate is leachate that was collected from the drain in the floor of the West Quarry, and temporarily circulated back up into the West Quarry Landfill. Refer to the West Quarry Site Assessment Report, 1994b). The bulk analysis of the aluminum processing waste was reviewed to determine which parameters were significant. The concentration of these parameters was subtracted from the recirculated leachate in proportion to the ratio of that parameter in the aluminum processing wastes relative to other wastes in the West Quarry Landfill. The main assumption in using this method is that the percentages in the waste reflect the concentrations in the leachate.

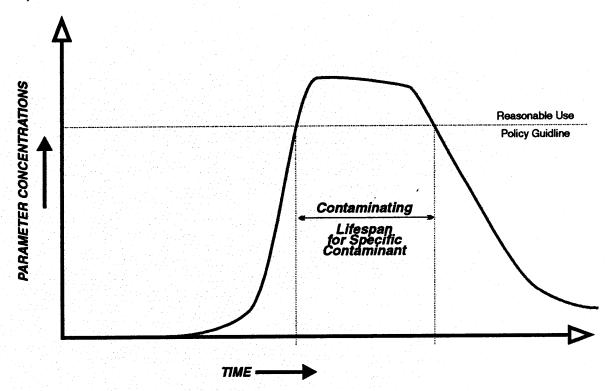
As part of this second method, the effects of the removal of these compounds on the final pH of the leachate was further investigated through the use of the geochemical model PHREEQE developed by the United States Geological Survey (Parkhurst et al., 1985).

### 4.2 OVERALL CONTROLS ON LEACHATE COMPOSITION

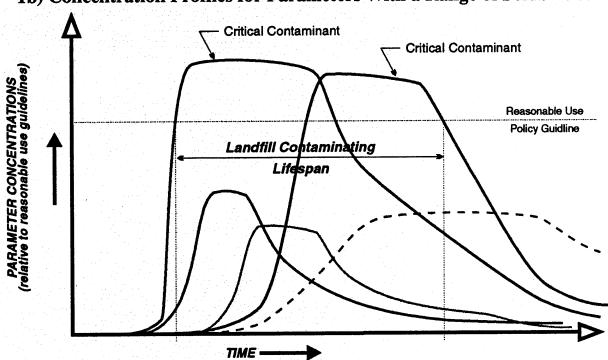
As water percolates through a waste body, various elements and chemical compounds are dissolved into the water, forming leachate. Because landfills have a finite size, the components available for dissolution will change over time as more and more constituents are leached and transported away from the waste area through leachate collection systems. Figure 1a shows a typical time-concentration profile for a soluble leachate parameter. Shortly after landfilling, waste becomes partially saturated with water and leachate generation is started. Over time, the leachate concentrations increase until maximum concentrations are reached. The concentrations will remain at this maximum until the availability of a component becomes limited and the concentration start to decrease. Some parameters reach their maximum concentration relatively early and leach out of the waste quickly. Other parameters reach their maximum concentration later and then leach out slowly.

Many of the low solubility parameters in the waste take considerable time to leach out but never exceed the Ontario Drinking Water Objectives nor the Reasonable Use Policy limits, and therefore, do not pose a threat to the environment. Others may exceed the regulatory limit for a certain period of

# 1a) Concentration Profile for One Critical Contaminant.



# 1b) Concentration Profiles for Parameters With a Range of Solubilities.





# TIME-CONCENTRATION PROFILE FOR LANDFILL LEACHATE

TARO PROPOSED EAST QUARRY LANDFILL

FIGURE

1

Project 94-407

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				•					
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time, called the contaminating lifespan. During this time, control will be required. Figure 1b illustrates a combination of parameters: two that exceed the regulatory limit and three that do not. The contaminating lifespan is the total length of time that the two parameters exceed the regulatory limit.

The initial composition of landfill leachate is determined by the availability of compounds within the waste and the residence time of the water within the waste pile. As the components dissolve out of the waste, the various compounds react to create a slightly different solution. This final leachate composition depends upon the resultant pH and pe (oxidizing or reducing condition) of the leachate. These conditions can change the solubility of some leachate parameters causing a reduction in dissolved parameter concentrations through precipitation of minerals.

A review of leachate composition throughout the West Quarry Landfill indicates that pH is strongly affected by the dissolution of ammonia and oxide wastes. In general, the greater the amount of ammonia or oxide dissolved, the higher the pH may rise. In contrast, the concentration of alkalinity, calcium, magnesium, and sometimes sulphate may be limited by precipitation of common minerals from the leachate such as calcite, brucite and gypsum. Under these conditions, the concentration ranges will be constrained regardless of the amount of additional soluble waste that is available to leach.

The parameters which do not appear to be affected by mineral precipitation are ammonia, TKN, chloride and sodium. These parameters have high solubilities and their concentration is largely determined by their availability in the aluminum processing wastes and other wastes.

Overall, the leachate found in the West Quarry Landfill can be correlated to the wastes entering the landfill. No contaminants were identified that could not be related to certain waste types.

## 4.3 PREDICTED LEACHATE COMPOSITION

As discussed in Section 3.1, two main methods were used to predict leachate composition in the proposed East Quarry Landfill. The results are discussed in the following sections. Section 3.3.3 discusses the overall prediction of the leachate composition based on the results of these two methods.

# 4.3.1 <u>Leachate Composition Predicted From West Quarry Landfill Leachate With Little Or</u> No Aluminum Processing Wastes

West Quarry Landfill leachate from two main areas were used to predict the East Quarry Landfill leachate concentration. These are:

- a) pre-recirculation leachate concentrations from areas in the West Quarry Landfill with little or no aluminum processing wastes (West Quarry Landfill monitors 31-II and 32-II, Figure 2); and
- b) leachate concentrations in areas where there is significant aluminum processing wastes (West Quarry Landfill monitors 57-II, 58-I, Figure 2).

The ranges for these two leachates are summarized on Table 3. A review of the leachate concentrations at locations 57–II and 58–I, and the bulk analysis information contained on Table A1, indicate that newer wastes in the landfill likely contribute to the concentrations of calcium, potassium, bromide, sulphate, phosphate, TOC, DOC, molybdenum, nickel, silica, strontium, vanadium and zinc. These compounds are higher in monitors 57 and 58 compared to the low aluminum waste leachate, and do not appear to be the result of the aluminum wastes.

# 4.3.2 <u>Leachate Composition Predicted By "Removing" Aluminum Processing Waste Effects</u> From Recirculated West Quarry Landfill Leachate

The calculated leachate concentrations after theoretically removing the aluminum wastes from the recirculated leachate are shown on Table 3, Column D. Concentrations were calculated only for those parameters for which the aluminum waste was the main contributor. As discussed in Section 3.3.4, the aluminum processing wastes were the main contributors of chloride, fluoride, sodium, ammonia, TKN, aluminum, chromium, copper and titanium. The calculations of the removal of these compounds are contained in Appendix B. The calculations show that only the concentrations of ammonia, chloride, sodium, and TKN are affected by removal of the aluminum processing wastes. For the remaining parameters, the concentration was controlled more by the solubility of the compounds and not by the availability. Therefore, removing the aluminum processing wastes had little effect.

The calculated changes in the leachate concentration were used in the PHREEQE model, along with recirculated leachate chemistry from location 33–II, to assess the effects of the changes on the pH of the leachate. The resultant pH of the East Quarry leachate was in the order of 10, versus 10 to 12 in the West Quarry Landfill. This is similar to the average pH in Table 3, Column A. The elevated pH of the leachate would most likely be caused by hydroxide alkalinity created by the dissolution of oxides in the waste. In the West Quarry Landfill, the higher pH was likely the result of both the oxides and the ammonia from the aluminum processing waste. The documentation of the PHREEQE modelling is contained in Appendix B.

Most metals have relatively low solubility in the pH range predicted for the East Quarry Landfill. Therefore, the concentration of the majority of metals in the East Quarry Landfill leachate is expected

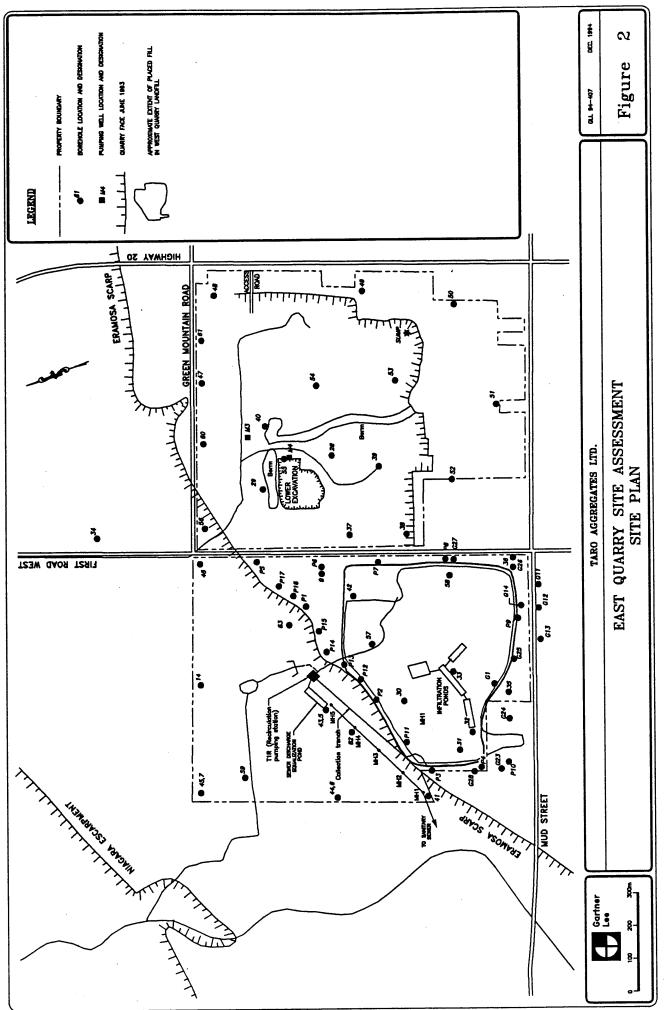


Table 3: Predicted Concentration Ranges in East Quarry Leachate

10.055   10.077 - 12.72   11.44   b)   11.25 - 12.79   12.94   10.055   1		(a) Leachate Concentrations in The West Query Landtill Wastes Wah Little Or No Audienium Processing Wastes (Monitors 31 and 32 Prior To Rediculation)	ors in The I Wastes uninum tes 2 Prior n)	(b) Leachete Concentration in The West Quarry Landtill Wastes With Alumirum Processing Wastes (Monitors 57 amnd 56)	in The West se With Westes 158)	(c) Leachate Concentration in The West Quarry Landfill Westes Affected By Recirculation (Monitors 30, 31, 32 and 33)		(d) East Querry Landfill after East Querry Landfill after Theoretically Removing the Aluminum Processing Wastes From The Redroutation Leachait (Column C)	andfill after imoving the sebrg Westes should floor should for should find the shou	(e) Predicted East Quanty Landfill Leachate Concentrations	Namy ate ns	Average Brow Landfill Concentrations <sup>1</sup>	(g) Average Municipal Landfili Leachete <sup>2</sup>
11   12   13   13   14   15   15   15   15   15   15   15	Parameter	Range	Average	mg/L Range	Average	Mg/L Range	Average	Range		Range	Average	É	1
10	Æ		10.65		1		12.17	01			10.65	9.6	7
10	Conductivity µS/am	•	8203	1		1.1	21504			1 1	6203	13353	8068
21 47.1         154 - 1854         154 - 1850         774         68 - 200         159         154 - 180         774         774         774         154 - 180         774	28	- 1 1	518	1			288			- I I	2747	3238	5891
120	2	1	2	ı		ı	157			1	740	734	22
0.16 - 475         114         0.28 - 23.7         117         2.1 - 72         8.7         9.4         116         - 47.8         11.6         - 47.8         11.9         - 8.8         73.9         - 47.8         11.9         - 8.8         - 17.8         - 17.8         6.9         - 17.8         11.9         - 18.9         73.9         - 18.9         73.9         - 18.9         11.9         - 18.9         11.9         - 18.9         11.9         - 18.9         - 18.9         11.9         - 18.9         - 18.9         11.9         - 18.9	Alkalinity	1 1	1075	1 1			6 6 6 6			1 1	1975 2334	8 8	2626 1907
130											;	•	Ş
150 - 254   150   2700 - 2500   1500   1000   110   110   110   110 - 250   110	Phenois		5.6				) S				<u> </u>	24.7	37.
151 - 150   150   150   100	Magneshm		9.5	ı			0.2			1	9.5	430	232
1	Sodium		5 5 6	•	_		¥ 4		_	1	§ §	980	202
0 - 310         24         13 - 46         15 - 102         15 - 102         15 - 102         16 - 15   10   10 - 30   10   10   10   10   10   10   10	Chloride	1 1	3 2				3 50				<u> </u>	1058	745
0 - 36         158         46         3 - 102         66         3 - 102         66         3 - 102         66         3 - 102         66         67 <t< th=""><td>Fluoride</td><td>,</td><td>2.4</td><td>ŧ</td><td>_</td><td></td><td>9.</td><td></td><td></td><td></td><td>4,</td><td>5.1</td><td>4</td></t<>	Fluoride	,	2.4	ŧ	_		9.				4,	5.1	4
20 - 365         36         715 - 3160         1772 (s)         26.7 - 2751         26.7 - 316         715 - 3160         1772 (s)         26.7 - 2751         715 - 3160	Bromide	1	8.	0 - 78	_	1	3				<b>\$</b>	28.50	
3.76 - 101         36         165 - 2500         1100 (a)         23 - 251         142 - 31         37 - 31	Sulphate	ı	8	ı	_	ı	282				1742	561.5	8
Colored   Colo	Ammonia		8 2		_		2 2				8 6	143.7	172
0 - 0.004         0.0054         0.00	Ntrate	1		1			2				•	9.0	0.36
0 - 0.58         0.09         0.0         0	Nitrite	1	9.00	ı			8 0				4000	72.1	e. 0
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0.046 - 207         0.81         0.124 - 0.3         0.19         0.004 - 1.45         0.65         0.65         0.0046 - 207         0.01         0.15         0.15         0.004 - 0.0014         0.0001	Aluminum	•	000	ı		1	9	1			0.0	0.33	0.92
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0 - 0.78         0.25         0 - 0.76         0.25         0 - 0.04         0.2         0 - 0.21         0.03         0.00         0.24         0           2.22 - 12         7.2 - 12         7.2 - 12         7.17 - 37.3         17.66 (c)         2.34 - 11.9         6.9         6.9         7.17 - 37.3         17.66 (c)         0.24 - 0.0         0         0.00	Molybdon	1	8	ı		ı	00			1	0.0	0.43	90.0
2.22 - 12         7.2         7.17 - 37.3         17.06 (c)         2.34 - 11.9         6.9         0.0         0.00         0.00         13.6	Nickel	ı	0.25	ı		ı	8				0.25	0.24	90.0
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0.47 = 5.17	Silver	1	8 8	ı			0.000			1	8 2	0.0	0.001
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0 - 0.04 0.01 0 - 0.9 0.23 (c) 0 - 0.01 0.00 0 - 0.9 0.23 0.6	Vanadium	1	0.00	0.0		1	0.01			ı	0.017	0.08	
	Zinc	1	0.0	o I		ı	8.				ଞ୍ଚ 	9 0	=

ages of bulk ahalyses of other main w 1 - Steetly Hearing Documents 2 - Jones 1993 (a) Parameter high in aluminum processing waste, based on bulk analysis of aluminum waste co.
(b) Parameter high due to effects of aluminum processing waste on the leachate.
(c) Parameter in leachate in aluminum waste area but beleived to originate from "newer" wastes.

17

to be similar to the West Quarry Landfill leachate. To illustrate this, pH versus concentration diagrams for metals found in the West Quarry leachate have been prepared and are contained in Appendix C. A methodology for this modelling is also included in the Appendix. The solubilities used in these figures were determined using the geochemical model PHREEQE and assume equilibrium conditions with hydroxide minerals. Of the metals analyzed, the modelling indicates that only aluminum has a solubility limit which increases with pH. Of the metals analyzed, aluminum concentrations are highest but are still less than predicted concentrations. This may be the result of aluminum precipitation by other forms.

The solubility modelling was carried out at the pe estimated for the West Quarry Landfill leachate (based on PHREEQE modelling of the West Quarry Landfill leachate). In the West Quarry Landfill, the pe is controlled by reducing conditions within the landfill caused by lack of oxygen, the oxygen scavenging of the wastes and by microbes consuming the organic fraction of the wastes. The waste and organic content of the proposed East Quarry Landfill is expected to be similar enough to the West Quarry Landfill to cause a similar pe.

#### 4.3.3 Summary

The predicted East Quarry Landfill leachate composition is shown on Table 3, Column E. These concentrations are based on the results of the two methods discussed above and are summarized below.

The calculated chloride, sodium, ammonia and TKN concentrations in the predicted leachate in the proposed East Quarry Landfill (Table 3, Column D) are similar to the leachate in the low aluminum processing waste areas (Table 3, Column A).

Based on Section 4.3.1, the calcium, potassium, bromide, sulphate, phosphate, TOC, DOC, molybdenum, nickel, silica, strontium, vanadium and zinc concentrations will likely be higher than that found in the low aluminum waste leachate. Therefore, the leachate concentration of these parameters at monitors 57–II and 58, are considered more representative of the leachate in the East Quarry Landfill.

For all other parameters, the aluminum processing waste would not likely affect their concentration in the leachate. For these parameters, the predicted leachate composition of the proposed East Quarry Landfill is based on the overall West Quarry Landfill leachate concentrations.

The West Quarry Landfill leachate and the predicted East Quarry leachate was compared to the Brow Landfill leachate. The Brow Landfill has historically accepted a much broader range of industrial

wastes than has been accepted at the West Quarry Landfill, yet the leachates have similar concentrations for 33 of 41 inorganic parameters analyzed. The other eight parameters, (magnesium, nitrate, nitrite, phosphorous, boron, cadmium, iron and silver), have higher concentrations in the Brow Landfill leachate. The significance of these differences is discussed in Section 5.2.

The similarities in the Brow leachate and the West Quarry leachates illustrates that the leachate composition for non-hazardous solid industrial wastes is relatively consistent even when one landfill accepts a broader range of wastes within the Regulation 347 Guidelines. This supports the assumption that the West Quarry Landfill leachate will be reasonably representative of the leachate expected in the proposed East Quarry Landfill.

In comparison to municipal landfills, the West Quarry Landfill leachate and the predicted East Quarry Landfill leachate have significantly lower concentrations of alkalinity, chloride, fluoride, magnesium, ammonia, TKN, nitrate, nitrite, and most metals. The West Quarry Landfill typically has higher average concentrations of TDS, TOC, hardness, calcium, potassium, sulphate and some metals.

# 5.0 PREDICTED CRITICAL CONTAMINANTS AND INDICATOR PARAMETERS

Critical contaminants are defined by the MOEE as "those contaminants that have the potential to reach unacceptably high levels at a point of potential ground water use" (MOEE, 1993a). The definition of unacceptably high levels is site specific and, therefore, is not defined by the MOEE. Since any discharge from the proposed East Quarry Landfill could potentially impact the surrounding ground water environment, unacceptably high levels were defined by the Ontario Drinking Water Objectives (ODWO) and the Reasonable Use Policy (RUP). For most parameters in the shallow ground water system, the RUP and the ODWO limits are the same since the natural ground water concentrations exceed the ODWO. In deeper ground water, even more parameters naturally exceed the ODWO. RUP concentrations were only calculated for critical contaminants that have natural ground water concentrations which are lower than the ODWO. Otherwise, the RUP is equivalent to the background concentration for that parameter.

Not all ground water quality parameters have ODWO or RUP limits. However, Taro will include some of these parameters in their monitoring program anyway, since they may be useful indicators of potential leachate impacts. The list of indicator parameters has been developed from the leachate characterization study to provide input into the future ground water monitoring programs in the East Quarry Landfill.

### 5.1 METHODOLOGY

The assessment of critical contaminants and indicator parameters was based on a number of sources. These include:

- a) the range of predicted leachate concentrations of the proposed East Quarry Landfill from Table 3, Column E;
- b) the range of leachate concentrations in the West Quarry Landfill (Table 3 and Table D1 and D2 in Appendix D);
- c) the background ground water quality for the East Quarry Landfill (Tables D1 and D2); and
- d) the water quality in monitors contaminated by the West Quarry Landfill leachate (West Quarry Landfill, Technical Appendix, Gartner Lee Limited, 1993a).

Using the above information, critical contaminants and indicator parameters were determined based on the following;

- a) the relative difference of predicted parameter concentrations in the East Quarry Landfill leachate to the natural ground water concentrations, to the ODWO, and to the RUP;
- b) the mobility of leachate parameters in the local environment based upon the West Quarry Landfill leachate effects; and
- c) the effectiveness of an engineered liner system to adsorb and retard the movement of leachate parameters that are relatively biodegradable.

First, the predicted East Quarry Landfill leachate was compared to the Reasonable Use Policy (RUP) limits and the natural ground water quality, Table D1 and D2, Appendix D. If a parameter was significantly higher than the natural ground water concentrations and higher than the RUP guideline, it was considered as a potential critical contaminant. If the contaminant was higher than the natural ground water but was expected to be lower than the RUP guideline, it was considered an indicator parameter.

The second step was to assess the mobility of each of these to determine if the contaminant could have an impact outside the landfill. The RUP applies at the properly boundary. Therefore a contaminant is only critical if it expected to exceed the RUP guideline at the boundary. The West Quarry Landfill was used as a model to assess this. If a contaminant was found in the leachate but was not affecting monitors in the impacted ground water plumes around or below the West Quarry Landfill, it was not considered to be a critical contaminant. If a contaminant was found in the leachate and persisted in monitors downgradient of the West Quarry Landfill, it remained on the critical contaminant list.

The third step was to determine which parameters would readily sorb onto the clay minerals in the landfill liner. For biodegradable compounds, this would allow time for the compound to degrade long before it would be released to the environment. These are not considered critical contaminants. Parameters which do not degrade would ultimately migrate through the liner and could potentially contaminate natural ground water.

# 5.2 PREDICTED CRITICAL CONTAMINANTS AND INDICATOR PARAMETERS

Using the methodology discussed above, sodium and fluoride were identified as critical contaminants in the East Quarry Landfill. The indicator parameters are pH, conductivity, total phenol, ammonia, fluoride, bromide, calcium, potassium, sodium, total organic carbon (TOC), benzene and ethylbenzene. The rationale for determining this list is contained in Table 4.

In comparison to the West Quarry Landfill leachate, chloride is not considered a critical contaminant or an indicator parameter in the East Quarry Landfill leachate. The concentration of chloride in the East Quarry Landfill leachate is expected to be lower than the ODWO and RUP for chloride. It is also expected to be significantly lower than the natural chloride in the deeper ground water zones, and similar to the natural water quality in the shallow ground water zones.

The comparison of the Brow Landfill leachate to the ODWO and RUP support the selection of critical contaminants with the exception of chloride and nitrite. The chloride concentration in the Brow Landfill is similar to the current West Quarry landfill leachate with the aluminum processing wastes. We have assumed that the chloride values will be significantly lower without these wastes. Experience with the West Quarry Landfill has indicated that nitrite in not generally found in significant concentrations as leachate is generally under reducing conditions. The pe of the East Quarry leachate is expected to be similar to the West Quarry leachate (see Section 4.3.2) and therefore, the nitrogen should remain mostly as ammonia (NH<sub>3</sub>).

The parameter pH is considered an indicator parameter and not a critical contaminant as it is controlled by the dissolution of ammonia and oxides in the waste. As these compounds are reduced in the waste, the pH will decrease.

# 6.0 PREDICTED CONTAMINATING LIFESPAN

The contaminating lifespan of a landfill is defined as the length of time that the wastes can produce leachate that is unacceptable for direct release into the environment. There has been a limited amount

TABLE 4: Assessment of Critical Contaminants and Indicator Parameters

	Predi	cted	Predicted	Leachate	Parameter significantly	Parameter likely to	
	East Q	luarry	Above Ba	ckground	elevated in impacted	be adsorbed in	Designation
	Leachate	Exceeds			monitors	the East Quarry	
	ODWO	Reasonable	shallow	deeper	downgradient of	Landfill Liner and	
		Use for	bedrock	bedrock	West Quarry	degrade	•
		Eramosa			Landfill Site		
					(assesses mobility)		
рН	•		•	•	•		Indicator Parameter
Conductivity			•		•		Indicator Parameter
TOC			•	•	•	•	Indicator Parameter
Calcium			•		•	•	Indicator Parameter
Magnesium					۰	•	
Sodium	•	•	•		•		Critical Contaminant
Potassium	<del>`</del>		•		•		Indicator Parameter
		•	-		•		
Chloride	0			•	•		Critical Contaminant
Fluoride	•	•	<del>                                     </del>	<del>                                     </del>			Indicator Parameter
Bromide			<del>                                     </del>	<del> </del>			
Sulphate	•		<del> </del>		•	•	Indicator Parameter
Ammonia		ļ	<u> </u>	<del>  •</del>		•	*
TKN			<u> </u>	•	•	<del>                                     </del>	
Nitrate	•	•	<b> </b>	<del> </del>	<u> </u>		
Nitrite		•			•	ļ	
Phosphate			<b></b>		0		
Aluminum	•	•	•	<u> </u>	<u> </u>		
Barium	•	•	•	•	0		
Beryllium							
Boron	•	0	• Eram		•		
Cadmium	•	•		1	0		
Chromium	•	0			0		
Cobalt					•		
Copper	0	•			0		
Lead	0	•	•	•	•		
Iron	0	•	-		0		
	0	•			•		
Manganese			• Eram		0		
Mollybdenum Nickle		<del>                                     </del>	• Eram				
		<del> </del>	<del> </del>	1			
Silica		<del>                                     </del>	1	1	-		
Silver		<del> </del>	<del>                                     </del>	<del>                                     </del>			
Strontium		1	+ •	+	0		
Titanium		-	1 :-	•			
Vanadium			<del>                                     </del>	+			
Zinc	•	<del> </del>		+			
Zircon	ļ		<del>  •</del>	-			
		ļ	<del></del>			<del> </del>	
Organic Parameters		-	1			<del>                                     </del>	Indicator Parameter
Phenois			<u> </u>	•	•	<u> </u>	muncator ( atameter
naphthalene	0	•	<u> </u>	na	•	-	
acenaphthalene	•	•	<u> </u>	na	•	<u> </u>	
toluene	0	•	<u> </u>	na	•	•	1
benzene	•	•	•	na	·	•	Indicator Parameter
ethylbenzene	•	•	•	na		•	Indicator Parameter
						<u></u>	1

e – yes o – no

●Eram — in Eramosa Flow Zone only

na - not analyzed

<sup>\*</sup> analytical problems analyzing TKN in high salinity waters

of research on the quantification of the contaminating lifespan of a landfill. As a result, there is no exact method of determining it. In the East Quarry Landfill, there is an opportunity to estimate the contaminating lifespan with some degree of accuracy. The West Quarry Landfill can be used as a model for the proposed East Quarry Landfill. Compared to most municipal landfills, the types of waste that will be accepted in the East Quarry Landfill are relatively predictable. Therefore, the degree of confidence in the contaminating lifespan calculation is higher than at municipal landfills.

For a landfill, contaminants are dissolved and removed by water flowing through the waste to produce leachate. Over time, the total mass of constituents is reduced until the leachate can no longer adversely affect the environment. This occurs during the later stages shown on Figure 1, when the leachate concentration drops below the regulatory limit. The contaminating lifespan is dependent on the mass of each contaminant in the landfill, the volume of water percolating into the landfill, and the maximum concentration of a parameter in the leachate.

The following sections present two methods used to calculate the contaminating lifespan of the East Quarry Landfill, and discusses the variables used.

### 6.1 METHODOLOGY

The contaminating lifespan was calculated using two different methods. The first method uses the following formula (Rowe, 1991) to determine the time at which the leachate reaches a concentration below the regulatory limit:

$$t = -Mln(C_L/C_o)/qAC_o$$

where  $C_L$  is the regulatory limit,  $C_0$  is the peak concentration in the leachate, q is the infiltration through the landfill cover, A is the landfill area, and M is the total mass of a parameter in the landfill. The second method consists of a simple mass balance, involving dividing the total mass of a contaminant (mg) by the concentration of the contaminant in the leachate (mg/L) to determine the volume of water needed to dissolve that mass. This volume (L) is then divided by the infiltration rate (m/a) to determine how much time (a) is needed to dissolve out the contaminants.

The differences between the two methods are that the first method assumes that the concentration of a given parameter decreases over time as the availability of that compound decreases. The second method assumes that the concentration of a given parameter will remain constant over time.

The determination of the variables used in these methods is discussed below. The assumptions made for each variable are also discussed below.

## Mass of Contaminant

The predicted mass of a contaminant in the proposed East Quarry Landfill was determined using the waste tonnages calculated in Section 3.1 and the bulk analysis data discussed in Section 3.1. The waste tonnage (kg) were multiplied by the concentration of a parameter in that waste (mg/kg from the bulk analysis) to predict the overall mass of that parameter in the landfill (Table 2).

A number of assumptions were made in determining the mass of the critical parameters in the landfill. These assumptions are:

- a) the types of waste received in the West Quarry Landfill will be representative of those accepted in the proposed East Quarry Landfill. As part of this, it assumes that the composition of the three main wastes will control the concentration of most leachate parameters;
- b) the 17 bulk analyses conducted on the current waste streams adequately represent the main waste streams expected in the East Quarry Landfill. It was assumed that averaging the concentration in each waste would best represent the actual concentration in the overall waste group. Using the average concentration may overestimate or underestimate the actual mass in the landfill; and
- the full amount of each parameter in each waste was available for dissolution. In actuality, many of the parameters in the wastes will be in a low solubility form. As a result, the available concentration of many of the low solubility parameters will be overestimated in the wastes and will lead to an overestimation of the contaminating lifespan of the landfill. The possible effects that this variability could have on the contaminating lifespan are discussed in Section 6.2.

# **Infiltration Rates**

The infiltration rate was based on a precipitation surplus of 388 mm/year, using a 30 year water budget. The surplus is defined as the annual precipitation surplus remaining after evapotranspiration is accounted for. This calculation is reprinted from Appendix C and Appendix D1 of the Hydrogeologic Impact Assessment Report (Gartner Lee Limited, 1994c) and is found in Appendix E of this report. A total infiltration area of 59.06 ha was used for the calculation. It was assumed that a final landfill cover would promote 33% runoff and 66% infiltration. The resulting leachate generation rate would be 4.21 L/s. Over time, the cover will deteriorate due to weathering, and will allow more water to infiltrate and reduce the contaminating lifespan.

### **Leachate Concentrations**

The concentration at which a contaminant will dissolve from landfill waste is partially controlled by the amount of time that water is in contact with the waste. In many landfills, water percolating into the waste moves relatively quickly through the unsaturated part of the waste, limiting the dissolution of contaminants out of this part of the waste. Most of the contaminants within the leachate are dissolved from the saturated part of the waste. The proposed East Quarry Landfill has been designed with a leachate collection system that will allow only minimal leachate mounding and minimal thickness of saturated waste. Therefore, most parameters will not likely reach their full solubility concentrations.

As discussed in Section 4.2, leachate concentrations in a landfill will vary and reach a maximum concentration over time. For the calculation of the contaminating lifespan, it was assumed that the predicted leachate concentration of the proposed East Quarry Landfill represent maximum leachate concentrations. This is reasonable since these predictions are based on West Quarry Landfill leachate which is more than five years old and likely at maximum concentrations.

For the calculation of the contaminating lifespan of the proposed East Quarry Landfill, three different critical leachate parameter concentrations were used: the highest and average leachate concentrations predicted for the proposed East Quarry Landfill site (Table 3, Column E); and the maximum observed concentration found in West Quarry Landfill leachate monitors located in areas where there is little to no aluminum processing wastes (Table 3, Column A).

### 6.2 RESULTS AND DISCUSSION

The results of the two contaminating lifespan methods are shown on Table 5. Tables F1 and F2, in Appendix F, contain the calculations. The estimated contaminating lifespan is approximately 200 to 300 years for sodium and fluoride. After that time, the critical contaminants in the landfill are not predicted to have a negative impact on the environment.

The total phenol, ammonia, TOC, benzene and ethylbenzene concentrations will decrease over time due to dissolution and biodegradation. Potassium, calcium and bromide concentrations will decrease at a rate similar the chloride and fluoride. The pH of the solution will be reduced as the ammonia and oxide concentrations are reduced. The conductivity of the solution will be reduced as the ions decrease in the landfill.

It is important to note that this calculation is conservative in that it does not consider dilution, biodegradation, adsorption, volatilization and chemical reactions that occur within the waste and along the flow path between the source and the downgradient boundary of the landfill site. Overall, these mechanisms will reduce the contaminating lifespan of the landfill as they generally decrease the concentrations of parameters within the leachate or ground water.

Table 5: Estimated Contaminating Lifespan of the Proposed East Quarry Landfill

Critical Contaminant	Sodium	1	Fluorid	e
Method	1	2	1	2
Calculated time required to leach out the element using the highest predicted East Quarry Landfill leachate concentration (years)	267	164	<b>268</b>	182
Calculated time required to leach out the element using the average predicted East Quarry Landfill leachate concentration (years)	282	192	291	297
Calculated time required to leach out the element using using the highest observed concentration in the West Quarry leachate (mg/L) in areas with limited aluminum processing waste (years)	293	219	268	182

Method 1: Based on decaying leachate concentration over time (Rowe, 1992) Method 2: Based on mass balance model

Overall Predicted Range In Contaminating Lifespan Based On Variability In Data (Years) *	200 – 300	200 – 300
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<sup>\*</sup> Rounded off to reflect the range of calculated values and the degree of accuracy in calculations

## 6.3 SENSITIVITY ANALYSIS

We know for the West Quarry Landfill that the waste streams accepted in a landfill will likely vary over time. If we recalculate the contaminating lifespan of the landfill with a different percentage of the main wastes, the contaminating lifespan does not change significantly. The main contributor of the critical contaminants was the steel making wastes from Dofasco. Therefore, reducing the amount of this waste and increasing other wastes only decreases the calculated contaminating lifespan of the landfill.

## 7.0 CONCLUSIONS

Based on the results of this study, the following conclusions are made:

- A) Leachate quality in the East Quarry Landfill was predicted using the West Quarry Landfill leachate as a starting point. The East Quarry leachate is expected to have significantly lower concentrations of chloride, ammonia, TKN, and sodium compared to the West Quarry Landfill leachate. The West Quarry leachate is similar to the Brow Landfill leachate despite the fact that the Brow Landfill has historically accepted a much broader range of industrial wastes.
- b) The critical contaminants for the East Quarry Landfill will be sodium and fluoride. Indicator parameters for the East Quarry Landfill Leachate will be pH, conductivity, total phenols, ammonia, bromide, calcium, potassium, total organic carbon, benzene and ethylbenzene.
- Using the assumptions included in this report, the predicted contaminating lifespan of the East Quarry Landfill is estimated to be in the range of 200 to 300 years. Literature values for the contaminating lifespan of landfill is in the order of several hundreds of years (Farquar, 1989).
- d) The contaminating lifespan calculations are considered to be conservative because:
  - the mass of the critical contaminants will be over estimated by the bulk analyses;

- ii) the calculation does not consider the dilution, adsorption nor chemical reactions that may reduce the critical contaminant concentrations faster; and
- iii) the calculation does not consider the increased infiltration rate as the landfill cover weathers and becomes more permeable with time.

Report Prepared By

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Hydrogeologist

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# Appendix A

# Chemical Analyses of West Quarry Wastes

Table A1: Average Composition of Main Waste Streams in the West

**Quarry Landfill** 

Bulk Analysis Data

■ Historic Leach Tests and Bulk Analysis Results

Table A2: Historic Data for Contaminated Soils and Rubble

Table A3: Historic Data for Dofasco Wastes

Table A4: Historic Data for Miscellaneous Wastes

Table A5: Historic Data for Industrial Sands and Ashes

Table A6: Historic Data for Slags

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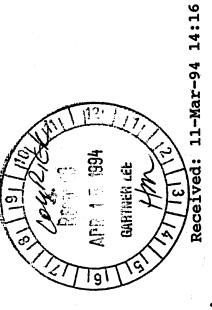
TABLE A1: Average Composition of Main Waste Streams in the West Quarry Landfill

(Based on Bulk Analysis)				A1
	Approved	Basic	Contaminated	Aluminum
	Mixed	Oxygen	Soils	Processing Wests
	Waste	Furnace Oxide	(m = fl cm)	Waste
	' (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
				(one sample)
Phenols	3.93	0.48	0.12	0.1
Calcium	67266	35550	63564	5770
Magnesium	100167	9200	12940	4320
Sodium	2510	1338	892	244000
Potassium	1227	40	1140	690
Chloride	185	188	740	450000
Fluoride	14	9	5.5	170
Bromide	<5	<5	33	NA
Sulphate	1552	997	3800	196
Ammonia	38	135	69	8270
TKN	540	405	650	10800
Phosphate	60	131	580	0
Phosphorous	<10	<10	<10	NA
Aluminum	31200	1547	9398	83100
Barium	240	15.9	67	146
Beryllium	2.18	0.46	0.49	0.51
Cadmium	1.50	5.8	1.5	4.8
Chromium	80	57	44	160
Cobalt	80	<2	7.2	<2
Copper	720	117	101	2620
Lead	171	727	212	113
Iron	123100	506500	24109	2210
Manganese	14900	5234	524	336
Molybdenum	11.4	4.2	<3	<3
Nickel	138	7.5	29.4	88
Silica	120000	18800	239000	NA
Silver	<0.3	<0.3	<0.3	<0.3
Strontium	196	40	108.5	191
Titanium	590	28	202	801
Vanadium	170	36	24.6	10.6
Zinc	2275	16775	3694	1050
Zircon	93	25.5	8.4	6

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Wats: 1-800-263-9040 Fax: (905) 890-8575

28-Mar-94

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941213 Job:

Attn: Mr. Mark Loney Project: 94069

Received: 11-Mar-94 14:19

	TKN	Phenols	henols Total Si	Ag	Al	Ba	Be	Ca
Sample Id	Titr.	ppm .	DDM	DDM	DDM	DDM	DDM	mad
01069701	620	765	220000	<0.3	5760	39.0	0.34	63000
10/00/PG	450	0.215	126000	<0.3	5230	51.8	0.36	103000
	340	0.070	252000	<0.3	8550	58.8	0.46	74700
94069704	340		261000	<0.3	6150	43.5	0.36	63000
4069/0	730	0.050	243000	<0.3	8050	74.3	0.50	50500
` `	780	•	· -	<0.3	9670	65.0	•	95400
` `	200	0.320	187000	<0.3	41300	614.	3.79	38000
	560	•	82300	1.4	33100	53.2	1.79	98500
` `	560		91700	<0.3	19400	68.6	0.98	65300
` `	200	0.330	17300	<0.3	1500	16.6	0.46	29500
94069/11	390	7	19100	<0.3	1470	15.9	0.44	31400
94069/12	340	_•	20000	<0.3	1550	16.7	0.45	32000
Blank	09>	•	<500	<0.3	<10	<0.3	<0.02	<10
oc Standard (actual)	1900	•	283000	<0.3	11000	91.4	0.43	6420
	2000	•	281000	<0.3	11100	107.	0.48	0699
peat 94069/	260	•	219000	<0.3	6140	42.3	0.35	63900

341 1st Road West, Stoney Creek, ON L8J 1X5

Mississauga, Cinalio 5735 McAdam Road L4Z 1N9

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Sample Id	cd ICAP ppm	Co ICAP PDM	Cr ICAP DDM	Cu ICAP ppm	Fe ICAP DDM	K ICAP PDM	MG ICAP PDM	Mn ICAP DDM
	1.7	\$	112.	78.1	26400	750	10700	414
94069/01		; Ç	116.	70.1	47500	810	24000	947
94069/02 04069/03	i (	, 4	15.4	19.9	15000	1100	9440	326
74069/03	, -	י נה	17.6	52.9	13900	980	9440	322
74069/04 71069/05	ο α • C	<b>.</b>	13.2	74.6	20900	980	23300	638
94069/00	, r	24	44.9	93.4	23900	1660	8160	313
74064/00 710/07/03		100	120.	2000	130000	3090	13500	096
94069/01	, o	1 1 1 1	80.8	9.68	72500	180	151000	39900
_	0	? \$	37.8	· `•	167000	410	136000	3810
94069/09 01000/10	•	? ()	C 0 > 3	112.	509000	<10	1990	4830
94069/10 01000/11	•	? \$	<0>3	120.	516000	<10	8450	5130
٦ :	•	? ?	6.0	118.	495000	<10	8460	2080
94069/12	•	? ?	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	<0>3	<10	<20	<10	₽
ank et ::: 3-:::3	) (	<b>3</b> α	10.0	•	21000	720	3140	305
۰	) r	<b>.</b>	7 7 7		21900	780	3270	315
Oc Standard (expected)	) · T				֓֞֜֜֜֜֜֜֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֜֓֓֓֓֡֓֜֓֡֓֡֓֡֓֡		10000	432
Repeat 94069/01	o. 8	7	116.	81.2	70000		TOTO	3

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Final

				3)					
	Mo ICAP	Na ICAP	Ni ICAP	PICAP	Pb ICAP	Sr ICAP	Th	ri ICAP	
Sample Id	mdd	maa	maa	maa	mdd	maa	maa	maa	
94069/01	<b>8</b>	1070	30	750	92	138.	<b>77</b>	103	
4069/	77	1840	37	1250	169	234.	<b>?</b>	97	
94069/03	\$	420	17	530	96	108.	<b>7</b>	305	
94069/04	<b>E</b>	460	18	540	95	94.7	<b>7</b>	287	
94069/05	<u>د</u>	240	26	470	112	119.	<b>?</b>	122	
94069/06	€	1440	46	390	20	141.	<b>%</b>	440	
94069/07	31	2950	137	<10	408	423.	<b>?</b>	920	
94069/08	<b>6</b>	3110	145	150	48	78.0	<b>7</b>	480	
``	<b>6</b>	1470	132	<10	58	85.9	<b>7</b>	343	
94069/10	<b>~</b>	1360	9	<10	872	35:6	<b>~</b>	53	
94069/11	9	1430	O	<10	845	37.6	<b>?</b>	25	
94069/12	Ø	1250	11	<10	772	37.4	<b>?</b>	24	
Blank	<b>6</b>	<20	<b>~</b>	<10	<b>~</b>	<0.3	<b>?</b>	<b>~</b> 1	
OC Standard (actual)	<b>~</b>	160	26	066	62	33.2	7	382	
Standard (	<b>~</b>	150	24	1000	09	33.9	4	369	
peat 94069/	<b>*</b>	1110	30	760	98	137.	<b>~</b>	115	

# DAKKINGER LABORATORIES

TARO AGGREGATES LTD. 341 1st Road West, Stoney Creek, ON L8J 1X5

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5735 McAdam Road Mississauya, Ontain

Zn Zr	٠	1	22500.	13400.	122.	423. 8	326. 8	240.	5750. 29	298. 177	778. 74	17400. 26	19800. 26	19300. 26	<0.3 <2	138.	•	22700.
V	TCAT	midd	18.0	22.0	22.2	21.4	22.5	27.2	59.2	419.	30.4	43.9	45.3	45.2	<0.3	25.7	27.0	18.8
	7 C C C C C C C C C C C C C C C C C C C	Sample 10	94069/01	0	94069/03	94069/04	94069/05	` \	. \	` \	4069/	4069/	94069/11	94069/12	Blank	oc Standard (actual)	U	epeat 94069/

L4Z 1N9

TARO AGGREGATES LTD.

341 1st Road West, Stoney Creek, ON L8J 1X5

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TEH-GC/FID GC/FID ug/g	121	640	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	107%	100\$	126
TP P&T GC/MS uq/q	124	14	. 58	50	31	<20	<20	<20	<20	<20	<20	<20	<20	1	!	124
TPH-MUST GC/MS & GC/FID Sample Id uq/q	245	94069/02 ) Pantaminated 654	,03	50 50 € 50 E 50 E 50	31	94069/06		<u>بد</u> ا	Mixed Wastes	, C	Latera Action of Agin	94069/12 \ Furnace Oxides <20	`	OC Standard (found)	Standard	6

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Stoney Creek, ON L8J 1X5

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941213

Job:

Job approved by:

Signed:

Mike Muneswar

Manager, Environmental Inorganic Services

# BARRINGER LABORATORIES

Stoney Creek, ON L8J 1X5

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Mississauga, Ontario

L4Z 1N9

5735 McAdam Road

Status:

# PARTICLE SIZE DISTRIBUTION

Particles finer than 425u 50u
0
7
9
25
0

Job approyed by:

Signed:

Manager, Environmental Inorganic Services Mike Muneswar



5735 McAdam Road Mississauga, Ontario L4Z 1N9 Tel: (905) 890-8566 Fax: (905) 890-8575 Wats: 1-800-263-9040

ULIENT: TARO AGGREGATES LTD.

MISA ANALYTICAL TEST GROUP 16

VOLATILE ORGANIC COMPOUNDS

DATE: 22-Mar-94

PROJECT REFERENCE: 94069

UNITS: MICROGRAMS/GRAM (UG/G) DRY WEIGHT

.O. # 94-1213V ATRIX: SOIL

Contaminated Soils

MISA ANALTHICAL TEST GROOF TO								
	M.D.L.	REAGENT	01	01	02	03	04	05
CONT. CONT.	UG/G	BLANK		DUP.				
	0.1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	0.1	ND	ND	NO	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	0.1	ND	ND ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	0.1	ND	ND	ND:	NĎ	ND	ND	ND
1,1-DICHLOROETHYLENE	0.2	ND	MD	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	0.1	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE		ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	0.1		ND .	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.1	ND	0.4	0.3	0.2	ND	ND	ND
BROMODICHLOROMETHANE	0.1	ND .	ND	ND	ND	ND	ND	ND
BROMOMETHANE	1.0	ND		ND	ND	ND	ND	ND
BROMOFORM	0.2	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	0.1	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	0.1	ND	ND		0.1	ND	ND	ND
CHLOROFORM	0.1	. ND	0.2	0.2	ND	ND	ND	ND
CHLOROMETHANE	1.0	ND	ND	NO	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPYLENE	0.1	ND	ND	ND	,	ND	ND	ND
DIBROMOCHLOROMETHANE	0.1	ND	ND	ND	ND	ND	ND	ND
ETHYLENE DIBROMIDE	0.1	ND	ND	ND	ND	ND	ND .	ND
METHYLENE CHLORIDE	0.5	ND	ND	NO	ND		ND	ND
TETRACHLOROETHYLENE	0.1	ND	ND	ND -	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHYLENE	0.1	ND	ND	NO	ND	ND		ND
TRANS-1,3-DICHLOROPROPYLENE	0.1	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHYLENE	0.1	ND	ND	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	1.0	ND	ND	ND	ND	ND	ND	ND
MISA ANALYTICAL TEST GROUP 17				•				
BENZENE	0.05	. ND	0.3	0.1	NĐ	ND	ND	ND
ETHYLBENZENE	0.1	ND	1.2	1.0	0.2	ND	0.3	0.7
STYRENE	0.1	ND	ND	ND	ND	ND	ND	ND
TOLUENE	0.1	ND	0.6	0.5	0.2	ND	0.2	5.3
O-XYLENE	0.1	NO	5.2	5.2	0.5	ND	0.6	2.3
M-XYLENE + P-XYLENE	0.1	ND	13.3	14.8	1.2	ND	0.9	4.5
MISA ANALYTICAL TEST GROUP 18								
ACROLEIN	5.0	ND	ND	ND	ND	ND	ND	ND
ACRYLONITRILE	5.0	ND	ND	ND	ND	ND	ND	ND
SURROGATE STANDARD RECOVERIES:	AMOUNT	CONT	ROL LIMITS:	60-140%				
BENZENE-D6	1.3	92%	91%	94%	88%	93%	98%	79%
1,2-DICHLOROBENZENE-D4	3.1	93%	128%	121%	106%	109%	89%	82%
I'E-NICHFORODFHEFUE BA								



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CLIENT: TARO AGGREGATES LTD.

PROJECT REFERENCE: 94069

W.O. # 94-1213V

VOLATILE ORGANIC COMPOUNDS

DATE: 22-Mar-94

UNITS: MICROGRAMS/GRAM	(UG/G)	DRY	WEIGHT
------------------------	--------	-----	--------

W.O. # 94-1213V	114					_	_	
MATRIX: SOIL	contai	minated 1	Defue	co Amon	oved	Dofusco	Basic	
MISA ANALYTICAL TEST GROUP 16	S	ails	Mix	sco Appn sed Was	les	Oxugen	Furnac	e oridos
					1	10	11	12
COMPOUND	M.D.L.	06	07	08	09	10		12
	UG/G				•			
		. NO	MD	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	0.1	ND ND	NO	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE		ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	0.1	NO NO	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHYLENE	0.1	ND	ND ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	and the first of the second	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	0.1	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	0.1	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	0.1	ND	NO	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.1	ND	NO	ND	ND	ND	ND .	ND
BROMODICHLOROMETHANE	0.1		ND	ND	ND	. ND	ND	NO
BROMOMETHANE	0.1	ND ND	ND	ND	ND	ND	ND	ND
BROMOFORM	0.1		ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	0.1	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND	ND
CHLOROFORM	0.1	ND		ND	ND	ND	ND	ND
CHLOROMETHANE	0.1	ND	ND	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPYLENE	0.1	ND	ND	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	0.1	ND	ND	ND	ND	ND	ND	ND
ETHYLENE DIBROMIDE	0.1	NO	NO		ND	ND	ND	ND
METHYLENE CHLORIDE	0.1	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHYLENE	0.1	ND	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHYLENE	0.1	ND	ND	ND .	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPYLENE	0.1	ND	NO	ND '	ND	ND	ND	ND
TRICHLOROETHYLENE	0.1	ND	ND	ND		ND	ND	ND
TRICHLOROFLUOROMETHANE	0.1	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	0.1	ND	ND	ND	. ND	ND	NO	
MISA ANALYTICAL TEST GROUP 17								
·	0.05	ND	ND	ND	ND	ND	ND	ND
BENZENE	0.1	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	0.1	ND	ND	ND	ND	ND	ND	ND
STYRENE	0.1	ND	0.2	ND	ND	ND	ND	ND
TOLUENE	0.1	ND	ND	ND ND	ND	ND	ND	ND
O-XYLENE	0.1	ND	0.2	0.1	ND	ND	ND	ND
M-XYLENE + P-XYLENE	0.1		0.2					
MISA ANALYTICAL TEST GROUP 18								
ACROLEIN	5.0 ·	ND	ND	ND	ND	ND	ND	ND
ACRYLONITRILE	5.0	ND	NO	ND	ND	ND	ND	ND
SURROGATE STANDARD RECOVERIES:	AMOUNT	CONTI	ROL LIMITS:	60-140%				
	. ~	1010	113%	95%	107%	113%	119%	114%
BENZENE-D6	1.3	101% 85%	119%	72%	109%	115%	123%	113%
1,2-DICHLOROBENZENE-D4	3.1	07%	1176	120	,0,74			



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CLIENT: TARO AGGREGATES LTD.
ROJECT REFERENCE: 94069

.o. # 94-1213V

VOLATILE ORGANIC COMPOUNDS

DATE: 22-Mar-94

HISA ANALYTICAL TEST GROUPS 16, 17 & 18

LEGEND: M.D.L. = METHOD DETECTION LIMIT

ND = NOT DETECTED

DUP. = DUPLICATE

### ANALYTICAL METHOD:

The soil samples were preextracted in methanol as per US EPA SW-846 methodology. The extracts were analysed by purge & trap gas chromatography/mass spectrometry using the internal standard method of quantitation.

### REPORT DISCUSSION:

The surrogate standard recoveries were within the control limits for the analytical method for all samples.

JOB APPROVED BY:

SIGNED:

RONALD CORKUM, M.Sc., C.Chem. MANAGER, MASS SPECTROMETRY SECTION CHARTERED OF CHEMIST



5735 McAdam Road Mississauga, Ontario L4Z 1N9 Tel: (905) 890-8566 Fax: (905) 890-8575

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MISA TEST GROUP #19 - BASE/NEUTRAL EXRACTABLES

DATE: 23-Mar-94

CLIENT: TARO AGGREGATES LTD. W.O. # 94-1213B MATRIX: SOIL

		5.2				!	UNITS: MICRO	GRAMS/GRAM	(UG/G)
MAIRIX	: SOIL	• •		Cor	<b>1</b> tamina	ited Soi	13		••
	COMPOUND	M.D.L.	REAGENT	94069/01	94069/02	94069/03	94069/04	94069/05	94069/06
		UG/G	BLANK		DF=5	DF=5	DF=5	DF=5	DF=5
							110	ND	ND
1	ACENAPHTHENE	0.2	ND	0.3	NO NO	ND NO	ND	ND ND	ND
, 2	5-NITROACENAPHTHENE	0.5	MD	NO	NO NO	, ND	ND ND	ND	ND
3	ACENAPHTHYLENE	0.2	NO	*0.1	NO NO	. NO	ND	ND	ND
4	ANTHRACENE	0.2	ND	*0.1	ND ND	MD +0.6	*0.6	*0.8	ND
5	BENZ(A)ANTHRACENE	0.3	ND	*0.1	MD.	ND	ND	*0.7	ND
.6	BENZO(A)PYRENE	0.3	NO	ND ND	NO.	*0.6	*0.6	*1.0	ND
7	BENZO(B) FLUORANTHENE	0.3	ND ND	ND	ND	ND	ND	ND	ND
8	BENZO(G, H, I)PERYLENE	0.3 0.3	· · · · · ND ·	ND ND	ND	ND	ND	ND	ND
9	BENZO(K) FLUORANTHENE	0.2	ND	0.4	ND	ND	ND	ND	ND
10	BIPHENYL	1.0	ND	ND	ND	ND	ND	ND	ND
11	CAMPHENE	0.2	ND	ND	ND	ND	ND	ND	ND
12	1-CHLORONAPHTHALENE	0.2	ND	ND	ND	ND	ND	ND	ND
13	2-CHLORONAPHTHALENE	0.3	ND	*0.2	ND	*0.6	*0.7	*0.8	ND
14	CHRYSENE	0.3	- ND	ND	ND	ND	ND	ND	ND
15	DIBENZ(A, H)ANTHRACENE	0.2	ND	0.5	1.0	1.3	1.3	1.5	*0.5
16	FLUORANTHENE	0.2	ND .	0.6	ND	ND	ND	ND	ND
17		0.3	ND	ND	ND	ND	ND	ND	ND
18	INDENO(1,2,3-CD)PYRENE	0.2	ND	ND	ND :	ND	ND ·	ND	ND
19 20	INDOLE 1-METHYLNAPHTHALENE	0.2	ND	3.9	1.0	ND	*0.8	ND	ND
21	2-METHYLNAPHTHALENE	0.2	ND	4.2	1.5	ND	*0.9	ND	ND
21		0.2	ND ND	1.6	*0.8	ND	*0.9	ND	ND
23		0.3	ND	ND	ND	ND	ND	ND	ND
<i>ڪ</i> 24		0.2	ND	1.9	1.1	1.3	1.6	1.0	ND
25		0.2	ND	0.6	*0.8	1.1	1.3	1.4	ND
26		0.2	ND	ND	ND	ND	ND	ND	ND
27		0.5	ND	ND	ND	ND	. 2.5	ND	ND
28		0.5	ND	ND	ND	ND	ND	ND	ND
29		0.5	ND	ND	ND	ND	ND	ND	ND
30		. 0.5	ND	ND	ND	ND	ND	ND	ND
31	· · ·	0.5	ND	ND	ND	ND	ND	ND	ND
32		0.5	NO	ND	ND	ND	ND	ND	ND
33	· · · · · · · · · · · · · · · · · · ·	0.2	ND	ND	ND	ND	ND	ND	ND
34		0.2	ND	0.4	ND	ND	ND	ND	ND
35		0.5	ND	ND	ND	ND	ND	ND	ND
	2,6-DINITROTOLUENE	0.5	ND	ND	ND	ND	ND	ND	ND -
	BIS(2-CHLOROETHOXY)METHANE	0.2	ND	ND	ND	ND	ND	ND	ND
	DIPHENYLAMINE & N-NITROSODPA	0.5	ND	ND	ND	ND	ND	ND	ND
	N-NITROSODI-N-PROPYLAMINE	1.0	ND	ND	ND	ND	ND	ND	ND
SURRO	GATE STANDARD RECOVERIES:	AMOUNT	1	CONTROL LIN	11TS: 30 - 1	140%			
	ACENAPHTHENE-D10	2.0	76%	66%					
	BENZO(A)PYRENE-D12	2.0	91%	362	<b>. 77</b> 7	X 81	% 823	ζ 742	73%



LIENT: TARO AGGREGATES LTD.

Page: 2

5735 McAdam Road Mississauga, Ontario L4Z 1N9 Tel: (905) 890-8566 Fax: (905) 890-8575 Wats: 1-800-263-9040

HISA TEST GROUP #19 - BASE/NEUTRAL EXRACTABLES

DATE: 23-Mar-94

	TARO AGGREGATES LTD. 94-12138		IISA IESI GRU						
"ATRIX:			<b>~</b> ^	٨	- 1 01	. ( ( ) U	NITS: MICROGR	AMS/GRAM (U	i/G)
********			Dolusco	<b>Hppro</b>	sed Unixe	ed wash		brusco s	
	COMPOUND	M.D.L.	94069/07	94069/08	94069/08	94069/09	94069/09 1 9		4069/11
		UG/G	DF=10	DF=5	DUP.	DF=5	DUP.	cygen fu	rnace
					DF=5		DF=5 *	'bucles	I
_		0.2	ND.	NO	ND	ND	ND	ND	ND
1	ACENAPHTHENE 5-NITROACENAPHTHENE	0.5	ND	ND	ND	, ND	ND	ND	ND
2	ACENAPHTHYLENE	0.2	4.3	ND	ND	ND	ND	ND	ND
3 4	ANTHRACENE	0.2	5.9	*0.7	*0.9	ND	ND	0.2	*0.1
5	BENZ(A)ANTHRACENE	0.3	7.3	*1.4	1.9	ND	*1.2	0.6	0.5
6	BENZO(A)PYRENE	0.3	5.8	1.8	2.3	. ND	*1.2	*0.1	*0.1
7	BENZO(B) FLUORANTHENE	0.3	7.9	2.3	3.0	*0.7	1.6	0.6	0.5
8	BENZO(G,H,I)PERYLENE	0.3	3.2	*0.8	*1.0	ND	ND	*0.1	ND
9	BENZO(K) FLUORANTHENE	0.3	3.0	*0.9	*1.0	ND	*0.7	*0.1	*0.1
10	BIPHENYL	0.2	ND	NO	ND	ND	ND	ND	ND
11	CAMPHENE	1.0	ND	ND	ND	ND	ND	ND	ND
12	1-CHLORONAPHTHALENE	0.2	. ND	ND	ND	ND	ND	ND	ND
13	2-CHLORONAPHTHALENE	0.2	ND	ND	ND	ND	ND	ND	ND
14	CHRYSENE	0.3	7.4	1.8	2.3	*0.7	1.6	1.0	0.9
15	DIBENZ(A,H)ANTHRACENE	0.3	ND	ND	ND	ND	ND	ND	ND
16	FLUORANTHENE	0.2	19.2	3.6	4.4	*0.7	1.7	2.4	1.9
17	FLUORENE	0.2	4.3	*0.8	*0.9	ND	ND	0.2	0.2
18	INDENO(1,2,3-CD)PYRENE	0.3	*2.6	*0.9	*1.2	ND	ND	ND	ND
19	INDOLE	0.2	ND	ND	ND	ND	ND	ND	ND
20	1-METHYLNAPHTHALENE	0.2	ND	ND	ND	ND	ND	ND	ND
21	2-METHYLNAPHTHALENE	0.2	· ND	*0.5	*0.6	ND	ND	*0.1	*0.1
22	NAPHTHALENE	0.2	2.5	5.2	5.4	*0.7	*0.6	0.2	0.2
23	PERYLENE	0.3	*2.2	*0.7	*0.9	ND	ND	ND	ND 1.2
24	PHENANTHRENE	0.2	20.5	5.1	5.8	0.9	1.6	1.4	1.2
25	PYRENE	0.2	14.4	3.0	3.6	*0.8	1.7	1.4	
26	BENZYL BUTYL PHTHALATE	0.2	ND	ND	ND	ND	. ND	ND	ND ND
27	BIS(2-ETHYLHEXYL)PHTHALATE	0.5	ND	NO	ND	ND	ND	ND	ND
28	DI-N-BUTYL PHTHALATE	0.5	ND	ND	ND	ND	, ND	ND	ND
29	DI-N-OCTYL PHTHALATE	0.5	ND	ND	ND	ND	ND	ND ND	ND
30	4-BROMOPHENYL PHENYL ETHER	0.5	ND	ND	ND	ND	ND	ND ND	ND
31	4-CHLOROPHENYL PHENYL ETHER	0.5	ND	ND	ND	ND	ND		ND
32	BIS(2-CHLOROISOPROPYL)ETHER	0.5	ND	ND	ND	ND	. ND ND	ND ND	ND
33	BIS(2-CHLOROETHYL)ETHER	0.2	ND	NO	ND	ND		ND	ND
	DIPHENYL ETHER	0.2	ND	ND	ND	ND	ND ND	ND	ND
	2,4-DINITROTOLUENE	0.5	ND	ND	ND	ND	ND	ND	ND
	2,6-DINITROTOLUENE	0.5		ND	NO	ND	ND ND	ND	ND
	BIS(2-CHLOROETHOXY)METHANE	0.2		ND	ND	ND	ND ND	ND	ND
	DIPHENYLAMINE & N-NITROSODPA	0.5		ND	ND	ND ND	ND ND	ND	ND
39	N-NITROSODI-N-PROPYLAMINE	1.0	ND	ND	ND	NU	NU	NU	NO
SURRO	GATE STANDARD RECOVERIES:	AMOUN	τ	CONTROL LI	MITS: 30 -	140%	•		
	ACENAPHTHENE-D10	2.0	782	. 87	% 88	% 937	<b>95%</b>	87%	80%
		2.0					4 73%	48%	42%
	BENZO(A)PYRENE-D12	2.0		, ,	54				



5735 McAdam Road Mississauga, Ontario L4Z 1N9 Tel: (905) 890-8566 Fax: (905) 890-8575 Wats: 1-800-263-9040

UNITS: MICROGRAMS/GRAM (UG/G)

MISA TEST GROUP #19 - BASE/NEUTRAL EXRACTABLES

DATE: 23-Mar-94

W.O. # 94-1213B MATRIX: SOIL

CLIENT: TARO AGGREGATES LTD.

Dofusco Basic Orygen funnace Oxides

	COMPOUND	M.D.L. UG/G	94069/12			
1	ACENAPHTHENE	0.2	ND	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	5-NITROACENAPHTHENE	0.5	ND			
_	ACENAPHTHYLENE	0.2	ND -			•
4	ANTHRACENE	0.2	*0.1			
-	BENZ(A)ANTHRACENE	0.3	. 0.4			
	BENZO(A)PYRENE	0.3	*0.1	100		#
_	BENZO(B)FLUORANTHENE	0.3	0.4			
8	BENZO(G, H, I)PERYLENE	0.3	ND			
9	BENZO(K) FLUORANTHENE	0.3	*0.1			
10	BIPHENYL	0.2	ND			
11	CAMPHENE	1.0	ND		14 6	
12	1-CHLORONAPHTHALENE	0.2	ND			
13	2-CHLORONAPHTHALENE	0.2	ND		1 :	
14	CHRYSENE	0.3	0.7			
15	DIBENZ(A, H)ANTHRACENE	0.3	ND			
	FLUORANTHENE	0.2	0.8			
17	FLUORENE	0.2	*0.1			
18	INDENO(1,2,3-CD)PYRENE	0.3	. ND			
	INDOLE	0.2	ND			
20	1-METHYLNAPHTHALENE	0.2	ND			
21	2-METHYLNAPHTHALENE	0.2	*0.1			
22	NAPHTHALENE	0.2	0.3			
23	PERYLENE	0.3	ND			
24	PHENANTHRENE	0.2	1.0			
25	PYRENE	0.2	0.9			
26	BENZYL BUTYL PHTHALATE	0.2	ND			
27	BIS(2-ETHYLHEXYL)PHTHALATE	0.5	ND			
28	DI-N-BUTYL PHTHALATE	0.5	ND	ŧ		
29	DI-N-OCTYL PHTHALATE	0.5	ND			
30	4-BROMOPHENYL PHENYL ETHER	0.5	ND			
31	4-CHLOROPHENYL PHENYL ETHER	0.5	ND			
32	BIS(2-CHLOROISOPROPYL)ETHER	0.5	ND			
33	BIS(2-CHLOROETHYL)ETHER	0.2	ND			
34	DIPHENYL ETHER	0.2	ND			
35	2,4-DINITROTOLUENE	0.5	ND			
36	2,6-DINITROTOLUENE	0.5	ND			
	BIS(2-CHLOROETHOXY)METHANE	0.2	ND			
38	DIPHENYLAMINE & N-NITROSODPA	0.5	ND			
39	N-NITROSCOI-N-PROPYLAMINE	1.0	ND			
SURRO	GATE STANDARD RECOVERIES:	AMOUNT	Ī	CONTROL LIMIT	s: 30	- 140%
	ACENAPHTHENE-D10	2.0	82:	X		

2.0 45% BENZO(A)PYRENE-D12



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CLIENT: TARO AGGREGATES LTD.

W.O. # 94-1213B MTRIX: SOIL MISA TEST GROUP #19 - BASE/NEUTRAL EXRACTABLES

DATE: 23-Mar-94

# QUALITY CONTROL SPIKE RECOVERIES

	COMPOUND	AMOUNT UG/G	REAGENT SPIKE 1	REAGENT SPIKE 2	
1	ACENAPHTHENE	2.0	86%	77%	
-	5-NITROACENAPHTHENE	4.0	93%	85%	
3	ACENAPHTHYLENE	2.0	85%	76%	
4	ANTHRACENE	2.0	90%	78%	
5	BENZ(A)ANTHRACENE	2.0	91%	78%	
6	BENZO(A)PYRENE	2.0	99%	75%	1.1
7	BENZO(B) FLUORANTHENE	2.0	97%	74%	
8	BENZO(G,H,I)PERYLENE	2.0	101%	49%	
9	BENZO(K) FLUORANTHENE	2.0	100%	75%	
10	BIPHENYL	2.0	83%	80%	. • •
11	CAMPHENE	4.0	50%	54%	
12	1-CHLORONAPHTHALENE	2.0	78%	81%	
13	2-CHLORONAPHTHALENE	2.0	84%	73%	•
14	CHRYSENE	2.0	99%	86%	
15	DIBENZ(A, H)ANTHRACENE	2.0	101%	54%	
16	FLUORANTHENE	2.0	93%	75%	
17	FLUORENE	2.0	89%	77%	
18	INDENO(1,2,3-CD)PYRENE	2.0	102%	56% 89%	
19	INDOLE	2.0	86% 81%	79%	
20	1-METHYLNAPHTHALENE	2.0		74%	
21	2-METHYLNAPHTHALENE	2.0	81% 80%	75%	
22	NAPHTHALENE	2.0	90%	76%	
23	PERYLENE	2.0	93%	78%	
24	PHENANTHRENE	2.0 2.0	97%	80%	
25	PYRENE	2.0	97%	89%	•
26		2.0	94%	84%	
27		2.0	97%	83%	
28		2.0	98%	82%	
29		2.0	92%	78%	•
30		2.0	89%	75%	
31		2.0	78%	77%	
32		2.0	78%	81%	
33		2.0	82%		
34		2.0	94%		
35		2.0	91%		
36		2.0	85%		
37	BIS(2-CHLOROETHOAT)HETHARE  BIS(2-CHLOROETHOAT)HETHARE  BIS(2-CHLOROETHOAT)HETHARE	2.0	111%		
	N-NITROSODI-N-PROPYLAMINE	2.0	66%		
39	N-MIIKOSODI-M-KKOLITYWINE	2.0			
SURRO	OGATE STANDARD RECOVERIES:			CONTROL LIMITS	s: 30 - 140%
	ACENAPHTHENE-D10	2.0	867	84%	
	BENZO(A)PYRENE-D12	2.0	1032		
	DENZU(A)FIRENE-UIZ	2.0			



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CLIENT: TARO AGGREGATES LTD.

W.O. # 94-1213B MATRIX: SOIL MISA TEST GROUP #20 - ACID EXRACTABLES

DATE: 23-Mar-94

.,UNITS: MICROGRAMS/GRAM (UG/G)

WIKIX	: SOIL			Cont	aminate	ed Soil	2	·	
	COMPOUND	M.D.L. UG/G	REAGENT BLANK	94069/01	94069/02 DF=5	94069/03 DF=5	94069/04 DF=5	94069/05 DF=5	94069/06 DF=5
		Od/ d	DEANK						
1	2,3,4,5-TETRACHLOROPHENOL	0.5	ND	ND	ND	ND	. ND	ND	ND
2	2.3.4.6-TETRACHLOROPHENOL	0.5	ND	NO	ND	ND	ND ·	ND	ND
3	2.3.5.6-TETRACHLOROPHENOL	0.5	ND	ND	ND	ND	ND	ND	ND
4	2,3,4-TRICHLOROPHENOL	0.2	ND	ND	ND	ND	ND	ND	ND
5	2,3,5-TRICHLOROPHENOL	0.2	ND	ND	ND	ND	ND	ND	ND.
6	2,4,5-TRICHLOROPHENOL	0.2	ND	ND	ND	ND	ND	ND	ND
7	2.4.6-TRICHLOROPHENOL	0.2	ND	ND ND	ND	ND	ND	ND	ND
8	2,4-DIMETHYLPHENOL	0.2	ND	ND	ND	ND	ND	ND	ND
9	2,4-DINITROPHENOL	5.0	ND	ND	ND	ND	ND	ND	ND
10	2.4-DICHLOROPHENOL	0.2	ND	ND	ND	ND	ND	ND	ND
11	2.6-DICHLOROPHENOL	0.2	ND	ND	ND	ND	ND	ND	ND
12	4,6-DINITRO-O-CRESOL	2.0	ND	ND	ND	·ND	ND	ND	ND
13	2-CHLOROPHENOL	0.2	ND	ND ND	ND	ND	ND	ND	ND
14	4-CHLORO-3-METHYLPHENOL	0.2	ND	ND	ND	ND	ND	ND	ND
15	4-NITROPHENOL	2.0	ND	ND	ND	ND	. ND	ND	ND
16	M-CRESOL & P-CRESOL	0.2	ND	ND	ND	ND	ND	ND	ND
17	O-CRESOL	0.2	ND	ND	ND	ND	ND	NĐ	ND
18	PENTACHLOROPHENOL	1.0	ND	ND	ND	ND	ND	ND	ND
19	PHENOL	0.2	ND	ND	ND	ND	ND	ND	ND
SURRO	GATE STANDARD RECOVERIES:	AMOUNT		CONTROL LIP	(ITS: 30 - 1	140%			
	A,A,A-TRIFLUORO-N-CRESOL	4.0	687	k 451	k 797	<b>x</b> 58 <b>x</b>	823	817	79%
	2,4,6-TRIBROMOPHENOL	4.0	777	k 697	<b>5</b> 45	x 687	687	677	66%



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CLIENT: TARO AGGREGATES LTD.

Y.O. # 94-1213B MATRIX: SOIL

MISA TEST GROUP #20 - ACID EXRACTABLES

DATE: 23-Mar-94

.0. #	94-1213B					ere e e e e e e e e e e e e e e e e e e	NITE - MICPOGE	AMS/GRAM (UC	i/G)	
ATRIX: SOIL			Dofusco Approved Mixed Wask.					MICROGRAMS/GRAM (UG/G) DC/FUSCO BC(9°C) 69/09 94069/10 94069/11		
	COMPOUND	M.D.L. UG/G	94069/07 DF=10	94069/08 DF=5	94069/08 DUP. DF=5	94069/09 DF=5	94069/09 DUP. DF=5	oxygen fil Oxygen	irnace	
4	2,3,4,5-TETRACHLOROPHENOL	0.5	ND	ND	ND	ND	ND	ND	ND	
1	2,3,4,6-TETRACHLOROPHENOL	0.5	ND	ND	ND	ND	ND	ND	ND	
7	2,3,5,6-TETRACHLOROPHENOL	0.5	ND	ND	NO	ND	ND	ND	ND	
	2,3,4-TRICHLOROPHENOL	0.2	ND	ND	ND	ND	- 1ND	ND	ND	
-	2,3,5-TRICHLOROPHENOL	0.2	ND	ND .	ND	ND	ND	ND	ND	
, ,	2.4.5-TRICHLOROPHENOL	0.2	ND	ND	ND	NO	ND	ND	ND	
7	2,4,6-TRICHLOROPHENOL	0.2	ND	ND	ND	NO	ND	ND	ND	
8	2.4-DIMETHYLPHENOL	0.2	ND	ND	ND	NO	ND	ND	ND	
9	2,4-DINITROPHENOL	5.0	ND	ND .	ND	ND	ND	ND	ND	
10	2.4-DICHLOROPHENOL	0.2	ND	ND	ND	NO	ND	ND	ND	
11	2,6-DICHLOROPHENOL	0.2	ND	ND .	ND	NO	ND	ND	ND	
12	4.6-DINITRO-O-CRESOL	2.0	ND	ND	ND	NO	ND	ND	ND	
13	2-CHLOROPHENOL	0.2	ND	ND	ND	ND	ND	ND	ND	
14	4-CHLORO-3-METHYLPHENOL	0.2	ND	ND	ND ND	ND	. ND	ND	ND	
15	4-NITROPHENOL	2.0	ND	ND	ND	ND	ND	ND	ND	
16	M-CRESOL & P-CRESOL	0.2	ND	ND	ND	ND	ND	ND	ND	
17	O-CRESOL	0.2	ND	ND	ND	ND	ND	ND	ND	
18	PENTACHLOROPHENOL	1.0	ND	ND	ND	NO	ND	ND	ND	
19	PHENOL	0.2	ND	10.0	10.0	1.7	1.8	*0.1	0.2	
SURRO	GATE STANDARD RECOVERIES:	AMOUNT	C	CONTROL LIM	ITS: 30 - 1	140%				
	A,A,A-TRIFLUORO-M-CRESOL	4.0	76%	44%	482	-		82%	74%	
	2,4,6-TRIBROMOPHENOL	4.0	53%	21%	217	<b>,</b> 257	23%	80%	73%	



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CLIENT: TARO AGGREGATES LTD.

W.O. # 94-12138 MATRIX: SOIL

MISA TEST GROUP #20 - ACID EXRACTABLES

DATE: 23-Har-94

Dobusco Basic Oxygen fumace Oxides

UNITS: MICROGRAMS/GRAM (UG/G)

COMPOUND	M.D.L. 9	4069/12
e de la companya de l	UG/G	
2,3,4,5-TETRACHLOROPHENOL	0.5	NO 1 de la companya del companya de la companya del companya de la
2,3,4,6-TETRACHLOROPHENOL	0.5	ND
2,3,5,6-TETRACHLOROPHENOL	0.5	ND
2.3.4-TRICHLOROPHENOL	0.2	ND ·
2,3,5-TRICHLOROPHENOL	0.2	ND :
2.4.5-TRICHLOROPHENOL	0.2	ND
2,4,6-TRICHLOROPHENOL	0.2	ND
	0.2	ND
•	5.0	ND
	0.2	ND
•	0.2	ND
•	2.0	ND
•	0.2	ND
	0.2	ND
	2.0	ND
	0.2	ND
	0.2	ND
•	1.0	ND ·
· =	0.2	0.2
1 1121192		
GATE STANDARD RECOVERIES:	AMOUNT	CONTROL LIMITS: 30 - 140%
A.A.A-TRIFLUORO-M-CRESOL	4.0	74%
2,4,6-TRIBROMOPHENOL	4.0	68%
	2,3,4,5-TETRACHLOROPHENOL 2,3,4,6-TETRACHLOROPHENOL 2,3,5,6-TETRACHLOROPHENOL 2,3,5-TRICHLOROPHENOL 2,3,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4-DIMETHYLPHENOL 2,4-DINITROPHENOL 2,4-DICHLOROPHENOL 2,6-DICHLOROPHENOL 4,6-DINITRO-O-CRESOL 2-CHLOROPHENOL 4-CHLORO-3-METHYLPHENOL 4-NITROPHENOL M-CRESOL & P-CRESOL O-CRESOL PENTACHLOROPHENOL PHENOL GATE STANDARD RECOVERIES: A,A,A-TRIFLUORO-M-CRESOL	UG/G         2,3,4,5-TETRACHLOROPHENOL       0.5         2,3,4,6-TETRACHLOROPHENOL       0.5         2,3,5,6-TETRACHLOROPHENOL       0.2         2,3,5-TRICHLOROPHENOL       0.2         2,4,5-TRICHLOROPHENOL       0.2         2,4,6-TRICHLOROPHENOL       0.2         2,4-DIMETHYLPHENOL       0.2         2,4-DINITROPHENOL       5.0         2,4-DICHLOROPHENOL       0.2         2,6-DICHLOROPHENOL       0.2         4,6-DINITRO-0-CRESOL       2.0         2-CHLOROPHENOL       0.2         4-CHLORO-3-METHYLPHENOL       0.2         4-NITROPHENOL       0.2         M-CRESOL & P-CRESOL       0.2         0-CRESOL       0.2         PENTACHLOROPHENOL       1.0         PHENOL       0.2         GATE STANDARD RECOVERIES:       AMOUNT         A,A,A-TRIFLUORO-M-CRESOL       4.0



Page: 8

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CLIENT: TARO AGGREGATES LTD.

1.0. # 94-1213B 4ATRIX: SOIL

# MISA TEST GROUP #20 - ACID EXRACTABLES

# DATE: 23-Mar-94

# QUALITY CONTROL SPIKE RECOVERIES

	COMPOUND	AMOUNT UG/G	REAGENT SPIKE 1	REAGENT SPIKE 2	
4	2,3,4,5-TETRACHLOROPHENOL	4.0	89%	74%	• •
	2,3,4,6-TETRACHLOROPHENOL	4.0	84%	78%	
	2,3,5,6-TETRACHLOROPHENOL	4.0	81%	76%	
	2,3,4-TRICHLOROPHENOL	4.0	86%	81%	
	2,3,5-TRICHLOROPHENOL	4.0	88%	79%	
	2,4,5-TRICHLOROPHENOL	4.0	83%	77%	
	2.4.6-TRICHLOROPHENOL	4.0	86%	76%	
-	2,4-DIMETHYLPHENOL	4.0	84%	76%	
_	2.4-DINITROPHENOL	4.0	61%	54%	
-	2.4-DICHLOROPHENOL	4.0	89%	79%	
	2.6-DICHLOROPHENOL	4.0	86%	81%	
	4,6-DINITRO-O-CRESOL	4.0	80%	65%	
	2-CHLOROPHENOL	4.0	86%	79%	
	4-CHLORO-3-METHYLPHENOL	4.0	93%	84%	
	4-NITROPHENOL	4.0	90%	82%	
	M-CRESOL & P-CRESOL	4.0	88%	89%	
	O-CRESOL & P-CRESOL	4.0	88%	87%	
• • •	PENTACHLOROPHENOL	4.0	60%	65%	
	• =	4.0	88%	85%	
19	PHENOL	7.0		•	
SURRO	GATE STANDARD RECOVERIES:		C	CONTROL LIMITS: 30	- 140%
	A,A,A-TRIFLUORO-M-CRESOL	4.0	89%	85%	
	2,4,6-TRIBROMOPHENOL	4.0	95%	76%	



Page: 9

5735 McAdam Road Mississauga, Ontario L4Z 1N9 Tel: (905) 890-8566 Fax: (905) 890-8575 Wats: 1-800-263-9040

CLIENT: TARO AGGREGATES LTD.

W.O. # 94-1213B MATRIX: SOIL MISA TEST GROUPS #19 AND #20

DATE: 23-Mar-94

BASE/NEUTRAL AND ACID EXRACTABLES

LEGEND:

M.D.L. = METHOD DETECTION LIMIT

ND = NOT DETECTED DUP. = DUPLICATE DF = DILUTION FACTOR

\* = DETECTED BELOW M.D.L. BUT PASSED COMPOUND IDENTIFICATION CRITERIA

#### ANALYTICAL METHOD:

The soil samples (10 grams wet weight) were mixed with sodium sulfate and extracted with a 1:1 mixture of dicloromethane/acetone. The concentrated extracts were analysed by gas chromatography/mass spectrometry using the internal standard method of quantitation.

#### REPORT DISCUSSION:

Some of the samples were run at a dilution factor due to high levels of nontarget compounds present which would cause contamination of the equipment if run undiluted. The detection limits for these samples are higher than the M.D.L.'s indicated above for the undiluted samples by a factor of DF. The amounts reported have been corrected for the dilution factor that was used.

The surrogate standard recoveries were within the control limits for the analytical method except for samples 94069/08 & 94069/09 which had low recoveries of 2,4,6-tribromophenol. The low recoveries were likely due to the interaction of the compound with the matrix of the samples.

The target compound quality control spike recoveries were in the normal range for the analytical method.

JOB APPROVED BY:

SIGNED:

RONALD CORKUM, M.Sc., C.Chem.
MANAGER, MASS SPECTROMETRY SECTION

CHARTERED OF Ronald J. Corkum & CHEMIST

31-File + \$020-1040 Fa: (416) 880-8576 Tat (416) 860-8606

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Attn: Mr. Jay Jackson Project:

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21213							Status	Final
			Soil samples	ples		٠		
	- - - -	TKN Titr.	NH3-N Titr.	Phenols 4-AAP	F. C.	cl- IC	SO4= IC ppm	
Sample Id  93081/01Dofusco Basic Oxygen PO 93081/02 Aluminum Processiry Blank QC Standard (actual) QC Standard (expected) Repeat 93081/01	FO 1.62 ( 1.35 ( 0.05 1.00 1.62	390 10800 460 2180 2000 340	390 8270 730 250 286 390	1.22 0.100 0.005 0.040 0.910	15 170 30 30	115 450000 2080 2080 2000	539 196 203 200 592	
	oil & Grs. Grav. ppm	Oil & Grs(M) Grav.	rs(M) oil	oil & Grs(A) Grav. ppm	AS HGAAS DDM	Se HGAAS DDM	Sb ндаля рря	Hg
	152		1280	240	11.2	8.0	uc	0.072
	180	<b>.</b>	<b>4100</b>	<100 <100 <100	0°0 0°7	40.2 40.2 60.2	0°2	<0.002
•	101>			) t ) 1 4 1	27.7	0.3	<0.3	0.262
(actual)	777	<b>-</b>		1	20.0	0.3	0.0	0.270
QC Standard (expected)	0891		1320	260	11.9	8.0	7.7	0.075
•	•							

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931233		
Jobi		

Cr ICAP DDR	228. 160. <0.3 40.9 271.	N.1 ICAP DDB	
CO ICAP.	0002%0	Na ICAP PPR	1310 244000 20 380 333 1370
cd ICAP PPIN	44000u	Mo ICAP PPM	000040
Ca ICAP PPM	49300 5770 30 5860 5330	Mn ICAP PDM	5930 336 <11190 1080 4890
Be ICAP DDM	0.50 0.51 0.03 0.76 0.61	Mg ICAP PPR	11900 4320 410 7660 7280
Ba ICAP DDR	14.4 146. <0.3 155. 153.	K ICAP DDM	150 690 <10 2530 2350 160
A1 ICAP PPIR	1670 83100 10 16500 16300	Fe ICAP DDM	506000 2210 <10 29800 28000 472000
Ag ICAP PDM	60.3 60.3 61.1 61.6	Cu ICAP PPM	121. 2620. 40.3 34.8 123.
Sample Id	93081/01 93081/02 Blank QC Standard (actual) QC Standard (expected)	Sample Id	93081/01 93081/02 Blank QC Standard (actual) QC Standard (expected) Repeat 93081/01

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Tet (416) 860-6566

TARO AGGREGATES LTD 341 lat Road West, Stoney Creek, ON 18J 1X5 Received: 22-Mar-93 11:02

Attn: Mr. Jay Jackson Project:

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7.h. 011211								
73484								
			soil sample	nples				
	P	Pb ICAP	Sr ICAP	Th ICAP PPM	T1 ICAP PDB	V ICAP PPM	Zn ICAP PPR	Zr ICAP PDM
Sample Id	MOO	TAX					.(	7
93081/01	. 510	417	50.4	<b>%</b> %	32 801	10.0	10600.	4
93081/02	01×	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	<0.3	; 73	<b>7</b>	<0·3	<0.3	7 7
Blank OC Standard (actual)	930	77	28.7	##	991 807	43.0	113.	ដេ
oc standard (expected)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	433	50.0	14	39	14.1	9600.	22
Repeat Asset/of	) )							

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And Supplement

Tet (416) 800-6566

LABORATORIES

AGGREGATES LTD. 341 1st Road West, Stoney Creek, ON 18J 1X5 TARO

Attn: Mr. Jay Jackson Project:

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Received: 22-Mar-93 11:02

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Job approved by

**Signed:** 

Hike Muneswar Hanager, Environmental Inorganic Services

A PHILIP ENVIRONMENTAL COMPANY

Table A2: Historic Data for Contaminated Soils and Rubble

Cada	CONS	CONS	CONS	CONS	CONS	CONS	CONS
Code Number	180	181	197	4	10	13	On the state of the sector to
Company Name	ABC Rail	Arnold Brothers Transport	CP Ref	Beaver Lumber ( 037 Parkdele Ave.	Canadian Pacific Rail Thermos Rd.	CN Real Estate 36 Abell St.	Columbian Chemicals Canada Ltd.
Address	4256 Carol St.	Mississeuge	Cambridge	Hemilton	Scarborough	Toronto	753 Parkdale Ave., Ham.
Amount (lonnes)	Niegara Falls 100	200	80	800	880	100	100
Date (yy/mm/dd)	92/02/20	92/01/26	92/03/31	91/10/16	91/11/15	91/10/16	92/02/27
Laboratory	Philip Envir.	Philip Envir.	Philip Envir.	Entech	BAS	Philip Envir.	Philip Envir.
Samples for Avg.				ł			
Reg 309 Acid Leach (mg/L) Aldrin & Dieldrin					*		
Aluminum						0.036	0.006
OinenA	0.010	0.005 0.16	<0.002 0.25	0.04 2.88	0.01 0.25	0.036	0.20
Barlum BOD	1,39	4.10	y.c.,				
Boron	<0.1	1.1	<0.1	0.10	<0.02 <0.002	0.3	1.5 0.006
Cadmium Carbaryl	0,014	<0.005	0.007	0.004			
Chlordane							
Chloride		0.06	<0.05	0.000	<0.01	<0.05	<0.05
Chromium Copper	<0.05	0.06	₹0.05	0.00	70.01		
Cyanide	0.24	<0.2	<0.2	<0.05		<0.2	<0.2 <1.9
Fluorides	<1.9	<1.9 <0.05	<1.9 <0.05	<0.5 0.05	<0.02	<1.9 <0.05	<0.05
Lead Manganese	<0.05	70.05	70.00				
Mercury	0.0004	0,0064	<0.0002	0.0008	<0.0001	<0.0002	<0.0002
Methoxychlor Methyl Parathion							
Nitrate & Nitrite							
Nitrate				3.29			
Nitrilotriacetic Acid Nitrite				<1			
Parathion					<0.0005		
PC8s Phenois			<del></del>				
Selenium	< 0.002	<0.002	<0.002	0.02	<0.002	<0.002 <0.01	
Silver	<0.01	0,028	<0.01	0.01	<0.005	<b>VO.01</b>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Silvex Toxaphene							
Trihalomethanes					<0.1		
Uranium Zino					70.1		
2,4-D							
Distilled Water Leach (mg/L)							
Aluminum							23.26
Ammonia	1.27 <0.002	<0.002	0.35 <0,002	<0.05	0.01	<0.002	
Arsenic Barium	<0.1		<0.1	0.06	0.05	<0.1	
BOO			<0.1	<1 0.02	<1 <0.02	17.4 <0.1	
Boron Bromoform	0.1	<0,1	20,1	0.02			
Cadmium	<0.005	<0.005	<0.005	< 0.005	<0.002	<0.005	<0.005
Carbaryl Chlordane		<del> </del>		-			
Chloride	0.00	9.9	1260.6	23.3	3.8	4.9	4.9
Chloroform		40.00	<0.05	<0.05	<0.01	<0.05	<0.05
Chromium Copper	<0.05	<0.05					
Cyanide	<0.2	<0.2	<0.2	0.22		<0.2	<0.2
DOT		<del> </del>					
Diazinon Endrin							
Fluorides	<1,9	<1.9	<1.9	0.5		<1.9	<1.9
Heptachlor & Hept. Epoxide Lead	<0.05	<0.05	<0.05	<0.05	<0.02		
Mercury	<0.0002				<0.0001	<0.0002	<0.0002
Methoxychlor Method Remthion			<del> </del>			<del> </del>	
Methyl Parathion Nickel		<u> </u>					
Nitrate & Nitrite				2.12		-	
Nitrate Nitrilotriacetic Acid				2.12			
Nitrite				<1		ļ	<del> </del>
Parathion		<del> </del>		<del> </del>	<del> </del>		
PC8s Phenois	<0.002					<0.00	
Selenium	< 0.002	<0.002	< 0.002				
Silver Silvex	<0.01	<0.01	<0.01	0.05	100	10,0	
Sulfate							
Sulfide		<b></b>	<del>                                     </del>	-		<del>                                     </del>	1
		+					
Toxaphene Uranium				. ——	,		1
Uranium Zinc				<del> </del>	<del> </del>	<del></del>	
Uranium Zinc 2,4-D							
Uranium Zinc							
Uranium Zinc 2,4-D 2,4.5-T							

Table A2: Historic Data for Contaminated Soils and Rubble

Number	CONS	CONS			CONS	CONS	CONS
	14	15	1(		17	23	24
	Consolidated Freightways	Converter's ink	Eneco		Estate of Norman Mitchell	Hemilton Mold Shop	ICI Canada Inc.
Address	5425 Dixie Rd.		Thompson & Sp		50 Anne St.	215 Hempstead Dr.	90 Sheppard Ave. E. North York
Amount (tonnes)	Mississauga 1000	Downsview 400	Smitt 50		Nepense 200	Hamilton 13	300
Date (yy/mm/dd)	92/04/14	92/02/20	92/0		91/10/06	91/11/06	91/10/16
Laboratory	Philip Envir.	Philip Envir.	Fine Analysis		Philip Environmental	Acres International	Philip Environmental
Samples for Avg.		,,	2 (Avg)				1
Reg 309 Acid Leach (mg/L)			-4				
Aldrin & Dieldrin							
Aluminum							
Arsenic Barlum	<0,002 0,30	<0.002 1.78	0.0005 <0.01		0.004 0.55	0.0026 <0.5	<0.002 0.29
BOO			30.01				
Boron	0.18	1.2	0.01		0.7	0.7	4.6
Cadmium	0.011	0.008	0.0025		0.004	0.01	0.008
Carbaryl Chlordane			l		<del></del>		<del>                                     </del>
Chloride	· ·						
Chromium	<0.05	0.06	<0.02		0.03	<0.05	<0.05
Copper					-0.0	20/5	
Cyanide Fluorides	<0.2 <1.9	<0.2 <1.9	0.025 1.04		<0.2 <1.9	0.045 0.13	<0.2 <1.9
Lead	0.19	0.06	0.025		<0.05	<0.05	0.16
Manganese	31,13						
Mercury	<0,0002	<0.0002	0.00055		<0.0002	<0,001	<0.0002
Methoxychlor							
Methyl Parathion Nitrate & Nitrite			<0.05			<0.01	<del> </del>
Nitrate		· · · · · · · · · · · · · · · · · · ·	~0.00			70.01	
Nitrilotriacetic Acid							
Nitrite			< 0.05			<0.01	
Parathion PCBs			<0.001				
Phenois			20.001			<0.001	·
Selenium	0.002	<0.002	< 0.001		0.003	<0.004	<0.002
Silver	<0.01	0.035	<0.01		0.007	<0,05	0.020
Silvex Toxaphene							
Trihalomethanes							
Uranium							
Zinc							
2.4-D							
Distilled Water Leach (mg/L)						T	·
Aluminum	1.68			<0.06	·····		
Aluminum Ammonia	1.68	<0.002		<0.05 0.003	<0.002	0,0061	<0.002
Aluminum Ammonia Arsenio Barium	1.68 <0.002 <0.1	<0,002 <0.1		<0.05 0.003 <0.1	<0.002	0,0061 <0.5	<0.002 <0.1
Aluminum Ammonia Arsenic Barium BOO	<0.002 <0.1	<0.1		0.003 <0.1	0.09 <5.0	<0.5 <100	<0.1 0.33
Aluminum Ammonia Arsenic Barium BOO Boron	<0.002			0.003	0.09	<0.5	<0.1
Aluminum Ammonia Arsenic Barium BOO	<0.002 <0.1	<0.1		0.003 <0.1	0.09 <5.0	<0.5 <100	<0.1 0.33
Aluminum Ammonia Arsenic Berium BOO Boron Bromclorm Cadmium Carbaryi	<0.002 <0.1 <0.1	<0.1 <0.1		0.003 <0.1	0.00 <5.0 <0.1	<0.5 <100 0.8	<0.1 0.33 2.2
Aluminum Ammonia Arsenic Barlum BOO Boron Bromoform Cadmium Carbaryi Chlordane	<0.002 <0.1 <0.1 0.005	<0.1 <0.05		0.003 <0.1 0.9 <0.005	0.09 <5.0 <0.1	<0.5 <100 0.8 <0.005	<0.11 0.33 2.2 <0.005
Aluminum Ammonia Arsenic Barium BOO Boron Bromoform Cadmium Carbaryi Chlordane Chloride	<0.002 <0.1 <0.1	<0.1 <0.1		0.003 <0.1	0.00 <5.0 <0.1	<0.5 <100 0.8	<0.1 0.33 2.2
Aluminum Ammonia Arsenic Barlum BOO Boron Bromoform Cadmium Carbaryi Chlordane	<0.002 <0.1 <0.1 0.005	<0.1 <0.05		0.003 <0.1 0.9 <0.005	0.09 <5.0 <0.1	<0.5 <100 0.8 <0.005	<0.11 0.33 2.2 <0.005
Aluminum Ammonia Arsenic Barium BOD Boron Bromcform Cadmlum Carbaryi Chlordene Chlorded Chloroform Chromium Copper	<0.002 <0.1 <0.1 0.005 4.9	<0.1 <0.05 9.9 <0.05		0,003 <0.1 0.9 <0.005	0.09 <5.0 <0.1 0.004	<0.5 <100 0.8 <0.005 <10	<0.11 0.33 2.2 <0.005 0 <0.005
Aluminum Ammonia Arsenic Barium BOO Boron Bromoform Cadmium Carbaryi Chlordane Chloride Chloroform Chromium Copper Copper	<0.002 <0.1 <0.1 0.005	<0.1 <0.05		0.003 <0.1 0.9 <0.005	0.09 <5.0 <0.1 0.004	<0.5 <100 0.8 <0.005	<0.1 0.33 2.2 <0.005
Aluminum Ammonia Arsenic Barium BOO Boron Bromclorm Cadmium Carbaryi Chiordane Chloroform Chromium Copper Cyanide DOT	<0.002 <0.1 <0.1 0.005 4.9	<0.1 <0.05 9.9 <0.05		0,003 <0.1 0.9 <0.005	0.09 <5.0 <0.1 0.004	<0.5 <100 0.8 <0.005 <10	<0.1 0.33 2.2 <0.005 0 <0.05
Aluminum Ammonia Arsenic Barium BOO Boron Bromoform Cadmium Carbaryi Chlordane Chloride Chloroform Chromium Copper Copper	<0.002 <0.1 <0.1 0.005 4.9	<0.1 <0.05 9.9 <0.05		0,003 <0.1 0.9 <0.005	0.09 <5.0 <0.1 0.004	<0.5 <100 0.8 <0.005 <10	<0.11 0.33 2.2 <0.005 0 <0.005
Aluminum Ammonia Arsenic Barium BOO Boron Bromcform Cadmium Carbanyi Chiordane Chloroform Chromium Copper Cyanide DOT Diazinon Endrin Fluorides	<0.002 <0.1 <0.1 0.005 4.9	<0.1 <0.05 9.9 <0.05		0,003 <0.1 0.9 <0.005	0.09 <5.0 <0.1 0.004	<0.5 <100 0.8 <0.005 <10	<0.11 0.33 2.2 <0.005 0 <0.005
Aluminum Ammonia Arsenic Barlum BOO Boron Bromclorm Cadmium Carbaryi Chiordane Chloridae Chlorotorm Chromium Copper Cyanide DOT Diazinon Endrin Fluorides Heptachlor & Hept, Epoxide	<0.002 <0.1 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.05 <0.2 <1.9		0.003 <0.1 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2	<0.5 <100 0.8 <0.005 <10 <0.005 <0.001	<0.1 0.33 2.2 <0.005
Aluminum Ammonia Arsenic Barium BOD Boron Boron Cadmium Carbaryi Chlordene Chloride Chloroform Chromium Copper Cyanide DDT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.06 <0.2 <1.9 <0.05		0,003 <0.11 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9	<0.05 <100 0.8 <0.005 <10 <0.005 <0.001  0.44 <0.005	<0.1 0.33 2.2 <0.005 0 <0.05 <0.05 <1.9 <1.9
Aluminum Ammonia Arsenic Barium BOD Boron Boron Bromdorm Cadrahum Carbanyi Chiordane Chioride Chioroform Chromium Copper Cyanide DDT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide Lead Mercury	<0.002 <0.1 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.05 <0.2 <1.9		0.003 <0.1 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2	<0.5 <100 0.8 <0.005 <10 <0.005 <0.001	<0.1 0.33 2.2 <0.005  0 <0.05 <0.2 <1.9
Aluminum Ammonia Arsenic Barium BOO Boron Boron Gromform Cadmium Carbaryi Chloridae Chloridae Chloride Chloridem Chromium Copper Cyanide DOT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide Lead Mercury Methoxychlor Methyl Parathion	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.06 <0.2 <1.9 <0.05		0,003 <0.11 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9	<0.05 <100 0.8 <0.005 <10 <0.005 <0.001  0.44 <0.005	<0.1 0.33 2.2 <0.005 0 <0.005 <0.05 <1.9 <0.05
Aluminum Ammonia Arsenic Barium BOD Boron Boron Bromdorm Cadrahum Carbanyi Chiordane Chioride Chioride Chioride Chioride Chioride DDT Diazinon Endrin Fluoridee Heptachior & Hept Epoxide Lead Mercury Methoxychior Methyl Parathion Nickel	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.06 <0.2 <1.9 <0.05		0,003 <0.11 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9	<0.5 <100 0.8 <0.005 <10 <0.001 <0.001 <0.001	<0.1 0.33 2.2 <0.005 0 <0.005 <0.05 <1.9 <0.05
Aluminum Ammonia Arsenic Barium BOO Boron Bromclorm Cadmium Carbaryi Chiordane Chloridae Chloroform Chromium Copper Cyanide DOT Diazinon Endrin Filuorides Heptachlor & Hept. Epoxide Lead Mercury Methoxychlor Methyl Parathion Nickel Nitrate & Nitrite	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.06 <0.2 <1.9 <0.05		0,003 <0.11 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9	<0.05 <100 0.8 <0.005 <10 <0.005 <0.001  0.44 <0.005	<0.1 0.33 2.2 <0.005 0 <0.05 <0.05 <1.9 <1.9
Aluminum Ammonia Arsenic Barium BOO Boron Boron Gromform Cadmium Carbaryi Chlordane Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Chloride Horolom Chromium Copper Cyanide DOT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide Lead Mercury Methoxychlor Methyl Parathion Nickel Nitrate Nitrate Nitrate	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.06 <0.2 <1.9 <0.05		0,003 <0.11 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9	<0.5 <100 0.8 <0.005 <10 <0.001 <0.001 <0.001	<0.1 0.33 2.2 <0.005 0 <0.005 <0.05 <1.9 <0.05
Aluminum Ammonia Arsenic Barium BOO Boron Bromclorm Cadmium Carbaryi Chiordane Chloride Chloroform Chromium Copper Cyanide DOT Diazhon Endrin Filuoridese Heptachior & Hept. Epoxide Leed Mercury Methoxychior Methyl Parathion Nickel Nitrate Nitrite Nitrites	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.06 <0.2 <1.9 <0.05		0,003 <0.11 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9	<0.5 <100 0.8 <0.005 <10 <0.001 <0.001 <0.001	<0.1 0.33 2.2 <0.005  0 <0.05 <0.2 <1.9 <0.005 <<0.2
Aluminum Ammonia Arsenic Barlum BOO Boron Boron Bromcform Cadmium Carbaryi Chlordane Chlordane Chlordorm Chordorm Chordorm Chorolum Copper Cyanide DOT Diazinon Endrin Fluorides Heptachior & Hept. Epoxide Leed Mercury Methoxychlor Methyl Parathion Nickel Nitrate Nitrate Nitrate Nitritie Parathion	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2	<0.1 <0.05  9.9 <0.06 <0.2 <1.9 <0.05		0,003 <0.11 0.9 <0.005 84.4 <0.05 <0.2	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9	<0.5 <100 0.8 <0.005 <10 <0.001 <0.001  0.44 <0.005 <0.001  0.12	<0.1 0.33 2.2 <0.005  0 <0.05 <0.02 <1.9 <0.002
Aluminum Ammonia Arsenic Barium BOD Boron Boron Bromdorm Cadralum Carbaryi Chlordane Chloride Chloride Chloroform Chromium Copper Cyanide DOT Diazinon Endrin Fluorides Heptachlor & Hept. Epoxide Leed Mercury Methoxychlor Methyl Parathlon Nitrate & Nitrite Nitrate Nitriticoetic Acid Nitrite Parathlon PCBs	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.1 <0.05  9.9 <0.05 <0.2 <1.9 <0.002		0,003 <0.1 0.9 <0.005 84.4 <0.05 <0.2 <1.9 <0.05	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9 <0.05 0.001	<0.5 <100 0.8 <0.005 <10 <0.001 <0.001  0.44 <0.005 <0.001  0.12 <0.001	<0.1 0.33 2.2 <0.005 0 <0.05 <0.02 <1.9 <0.002
Aluminum Ammonia Arsenic Barium BOO Boron Boron Bromdorm Cadmium Carbaryi Chiordane Chloroform Chromium Copper Cyanide DOT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide Lead Mercury Methyl Parathion Nickel Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Parathion PCBs Phenote	<0.002 <0.1 <0.1 0.005 0.005 4.9 0.05 <1.9 0.05 <1.9	<0.11 <0.05  9.9 <0.05 <0.05 <1.9 <0.05 <0.002		0,003 <0.1 0.9 <0.005 84.4 <0.05 <1.9 <1.9 <0.005	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9 <0.05 0.0001	<0.05 <10 <0.05 <10 <0.05 <0.001 <0.01 <0.05 <0.001 <0.01 <0.01 <0.01 <0.01	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.005 <0.005 <0.005 <0.0002
Aluminum Ammonia Arsenic Barium BOD Boron Boron Bromdorm Cadralum Carbaryi Chlordane Chloride Chloroform Chromium Copper Cyanide DOT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide Leed Mercury Methoxychlor Methyl Parathlon Nitrate & Nitrite Nitrate Nitriticaetic Acid Nitrite Parathlon PCBs Phenole Selerium Silver	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.1 <0.05  9.9 <0.05 <0.2 <1.9 <0.002		0,003 <0.1 0.9 <0.005 84.4 <0.05 <0.2 <1.9 <0.05	0.09 <5.0 <0.1 0.004 0.00 0.01 <0.2 <1.9 <0.05 0.001	<0.5 <100 0.8 <0.005 <10 <0.001 <0.001  0.44 <0.005 <0.001  0.12 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002
Aluminum Ammonia Arsenic Barium BOO Boron Boron Bromdorm Cadmium Carbanyi Chiordane Chloroform Chromium Copper Cyanide DDT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide Lead Mercury Methyl Parathion Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Parathion PCBs Phenole Selenium Silver Silver	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.05 <0.002 <0.001 <0.002		0,003 <0.11 0.9 <0.005 84.4 <0.05 <1.9 <0.05 0.0005	0.09 <5.0 <0.1  0.004  0.00  0.01  <0.2  <1.9  <0.05  0.0001  <0.001	<0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.001  0.44 <0.05 <0.001  0.12 <0.001 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002
Aluminum Ammonia Arsenic Barium BOO Boron Bromclorm Cadmium Carbaryi Chiordane Chloride Chiordorm Copper Cyanide DDT Diazinon Endrin Fluorides Heptachior & Hept. Epoxide Lead Mercury Methoxychior Mathyl Parathion Nickel Nitrate Nitritie Nitrate Nitritie Parathion PC8s Phenois Selerium Silver Silver Silver Silver	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.05 <0.002 <0.001 <0.002		0,003 <0.11 0.9 <0.005 84.4 <0.05 <1.9 <0.05 0.0005	0.09 <5.0 <0.1  0.004  0.00  0.01  <0.2  <1.9  <0.05  0.0001  <0.001	<0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.001  0.44 <0.05 <0.001  0.12 <0.001 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002
Aluminum Ammonia Arsenic Barium BOD Boron Boron Bromdorm Cadralum Carbaryi Chlordane Chloride Chloroform Chromium Copper Cyanide DOT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide Leed Mercury Methoxychlor Methyl Parathlon Nitrate & Nitrite Nitrate & Nitrite Nitrate & Nitrite Nitrate Nitriticatetic Acid Nitrite Parathlon PCBs Phenols Selerium Silver Silver Silver Suffate Suffite	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.05 <0.002 <0.001 <0.002		0,003 <0.11 0.9 <0.005 84.4 <0.05 <1.9 <0.05 0.0005	0.09 <5.0 <0.1  0.004  0.00  0.01  <0.2  <1.9  <0.05  0.0001  <0.001	<0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.001  0.44 <0.05 <0.001  0.12 <0.001 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.000 <0.000 <0.000 <0.0000
Aluminum Ammonia Arsenic Barium BOO Boron Bromclorm Cadmium Carbaryi Chiordane Chloride Chiordorm Copper Cyanide DDT Diazinon Endrin Fluorides Heptachior & Hept. Epoxide Lead Mercury Methoxychior Mathyl Parathion Nickel Nitrate Nitritie Nitrate Nitritie Parathion PC8s Phenois Selerium Silver Silver Silver Silver	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.05 <0.002 <0.001 <0.002		0,003 <0.11 0.9 <0.005 84.4 <0.05 <1.9 <0.05 0.0005	0.09 <5.0 <0.1  0.004  0.00  0.01  <0.2  <1.9  <0.05  0.0001  <0.001	<0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.001  0.44 <0.05 <0.001  0.12 <0.001 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.000 <0.000 <0.000 <0.0000
Aluminum Ammonia Arsenic Barium BOD Boron Boron Bromdorm Cadmium Carbaryi Chlordane Chloride Chlordorm Chromium Copper Cyanide DOT Diazinon Endrin Fluorides Heptachlor & Hept Epoxide Leed Mercury Methoxychlor Methyl Parathlon Nitrate & Nitrite Nitrate & Nitrite Nitrite Parathlon PCBs Phenole Selerium Silver Silver Suffate Suffide Toxaphene Uranium Zinc	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.05 <0.002 <0.001 <0.002		0,003 <0.11 0.9 <0.005 84.4 <0.05 <1.9 <0.05 0.0005	0.09 <5.0 <0.1  0.004  0.00  0.01  <0.2  <1.9  <0.05  0.0001  <0.001	<0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.001  0.44 <0.05 <0.001  0.12 <0.001 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.000 <0.000 <0.000 <0.0000
Aluminum Ammonia Arsenic Barium BOO Boron Boron Bromdorm Cadmium Carbanyi Chiordane Chiorde Chiorde Chiorde Chiorde Chiorde DOT Diazinon Endrin Fluoridee Lead Mercury Methoxychlor Methyl Parathion Nitrate Nitrate Nitrate Nitrate Parathion PCBs Phenois Selenium Silvex Suffate Suffice Toxaphene Uranium Zino 2,4-O	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.05 <0.002 <0.001 <0.002		0,003 <0.11 0.9 <0.005 84.4 <0.05 <1.9 <0.05 0.0005	0.09 <5.0 <0.1  0.004  0.00  0.01  <0.2  <1.9  <0.05  0.0001  <0.001	<0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.001  0.44 <0.05 <0.001  0.12 <0.001 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002
Aluminum Ammonia Arsenic Barium BOO Boron Boron Bromclorm Cadmium Carbaryi Chiordane Chloride Chlorider Chorolorm Copper Cyanide DDT Diazinon Endrin Filuorides Heptachlor & Hept. Epoxide Lead Mercury Methoxychior Methyl Parathion Nilrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Nitrate Parathion PCBs Phenols Selenium Silver Silver Sulfate Suffide Toxaphene Urarium Zino 2,4-D 2,4,5-T	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.05 <0.002 <0.001 <0.002		0,003 <0.11 0.9 <0.005 84.4 <0.05 <1.9 <0.05 0.0005	0.09 <5.0 <0.1  0.004  0.00  0.01  <0.2  <1.9  <0.05  0.0001  <0.001	<0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.001  0.44 <0.05 <0.001  0.12 <0.001 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002
Aluminum Ammonia Arsenic Barium BOO Boron Boron Bromdorm Cadmium Carbanyi Chiordane Chiorde Chiorde Chiorde Chiorde Chiorde DOT Diazinon Endrin Fluoridee Lead Mercury Methoxychlor Methyl Parathion Nitrate Nitrate Nitrate Nitrate Parathion PCBs Phenois Selenium Silvex Suffate Suffice Toxaphene Uranium Zino 2,4-O	<0.002 <0.1 <0.1 0.005 4.9 0.05 <0.2 <1.9 0.05 <0.0002	<0.05 <0.002 <0.001 <0.002		0,003 <0.11 0.9 <0.005 84.4 <0.05 <1.9 <0.05 0.0005	0.09 <5.0 <0.1  0.004  0.00  0.01  <0.2  <1.9  <0.05  0.001  <0.001	<0.05 <10 <0.05 <10 <0.05 <10 <0.05 <0.001  0.44 <0.05 <0.001  0.12 <0.001 <0.001	<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.002

Table A2: Historic Data for Contaminated Soils and Rubble

Code	CONS	CONS	00		CON		CONS 36	CONS 36	CONS
Number	27	26 Lancia Brabo	Love York		Newlens		Ontario Hydro	Ontario Hydro	Ontario Hydro
Company Name	Kraft General Foods 1440 Birchmount Rd.	58 Hook Ave.	201 N. Se		31 Aine		440 Unwin Ave.	440 Unwin Ave.	20 Blackburn St.
AUG. 65	Scarborough	Toronto	Burtin	1	Cambr		Toronto	Toronto	Toronto
Amount (tonnes)	100	96	10		500 92/4		10 to 15	73 92/02/21	200 92/01/13
Date (yy/mm/dd)	92/02/17	92/02/12 Philip Environmental	92/0- Zecon (Aug.)		EPL (Avg.)		Philip Envir.	Philip Envir.	Philip Envir.
Laboratory Samples for Avg.	Philip Environmental	FIND CHARGING	4	, ,	2				
Reg 309 Acid Leach (mg/L)									,
Aldrin & Dieldrin									
Aluminum Arsenic	0.025	0.006	0.002		<0.01		<0.002	<0.01	0.004
Barlum	0.268	9.77	0.89		0.64		1.21	2.0	1,65
BOO	0.072	<0.1	0.051		0.015		1.4	0.08	0.3
Boron Cadmium	0.013	<0.005	0.0055		0.0065		0.007	0.4	0.012
Carbaryl									
Chloride Chloride									
Chromium	<0,005	<0.05	0.0038		<0.01		<0.06	<0.005	<0.05
Copper	<0.02	<0.2	<0.0002		<0.002		<0.2	<0.002	0.27
Cyanide Fluorides	<0.02	<1.9	0.39		0.14		<1.9	0.3	<1.9
Leed	<0.01	0.16	<0.02		0.46		0.14	0.13	<0.05
Manganese Mercury	<0.001	0.0027	0,00025		<0.0002		0.007	<0.00005	<0.0002
Methoxychlor	10.501								
Methyl Parathion		<del> </del>	0.038		1,29		<u> </u>	0.05	
Nitrate & Nitrite Nitrate	<0,1		V.W8						
Nitrilotriacetic Acid			A 600-		<0.25		<del> </del>	0.009	<del> </del>
Nitrite Parathion	<0.1		0.0053		<b>VU.23</b>				
PC8s			<0.00005					<0.5	
Phenois	<0.002	0.002	<0.001		<0.01		<0.002	0.002	
Selenium Silver	<0.01		<0.01		<0.003		0.031	0.005	0.024
Silvex						<u> </u>			<del> </del>
Toxaphene Trihalomethanes			<del>                                     </del>						
Uranium					<0.02			ļ	
Zinc 2.4-D		ļ	<del> </del>	<del> </del>					
Aluminum Ammonia Arsenic Barlum	<0.05 0.028 0.090	<0.002		0.51 <0.002 <0.1		<5.0 <0.002 <0.1	<0.002 <0.1	0.14	0.005 <0.1
BO0						<0.1	6.1		
Boron Bromgform	0,080	<0.1		<0.1					
Cadmium	<0.003	<0.005		<0.005		< 0.005	<0.005	<0.005	<0.005
Carbaryl Chlordane	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<u> </u>		<u> </u>		
Chloride	19.8	0.0		9.0		4.23	4.9	9.0	<del> </del>
Chloroform	0.017	<0.05		<0.05		<0.05	<0.05	<0.05	<0.05
Chromium Copper	0,017								<0.2
Cyanide	<0.02	<0.2		<0.2		<0.2	<0.2	<0.2	<u> </u>
DOT Diazinon	<del> </del>		<del>                                     </del>						
Endrin						<1.9	<1.5	<1.9	<1.9
Fluorides Heptschlor & Hept, Epoxid	<0.4	<1.9	-	<1.9	ļ	×1.9			
Lead	0.090			<0.05		< 0.05	<0.05		
Mercury	<0.001	< 0.0002		<0.0002	<u> </u>	<0.0002	<0.0002	<0.0002	<u> </u>
Methoxychlor						<b></b>			
	+	<del></del>		<u> </u>		1			
Methyl Parathion Nickel									<del> </del>
Methyl Parathion Nickel Nitrate & Nitrite	<01								
Methyl Parathion Nickel Nitrate & Nitrite Nitrate Nitrotecetic Acid	<0.								
Methyl Parathion Nickel Nitrate & Nitrite Nitrate Nitrate Nitritoriacetic Acid Nitrite	<0.								
Methyl Parathlon Nickel Nitrate & Nitrite Nitrate Nitriotriacestic Acid Nitrite Parathlon									4.0
Methyl Parathlon Nickel Nitrate & Nitrite Nitrate Nitrate Nitrite Nitrite Parathlon PCBs Phenols	<0.00	1 <0.002		<0.001		<0.00			< 0.001
Methyl Parethlon Nickel Nitrate & Nitrite Nitrate Nitriotriacestic Acid Nitrite Parethlon PC8s Phonols Selenium	<0.00 <0.00 <0.002	1 <0.002	?	<0.001 <0.002 <0.01		<0.00° <0.00° <0.0°	< 0.000	< 0.002	<0.001 2 <0.002
Methyl Parathlon Nickel Nitrate & Nitrite Nitrate Nitrate Nitrite Nitritotriacetic Acid Nitrite Parathlon PCBs Phenois Selenium Silver Silver	<0.00	1 <0.002	?	<0.002		<0.002	< 0.000	< 0.002	<0.001 2 <0.002
Methyl Parathlon Nickel Nitrate & Nitrite Nitrate Nitriotriacestic Acid Nitrite Parathlon PC8s Phonois Selenium Silver Silvex Sulfate	<0.00 <0.00 <0.00 <0.00	1 <0.002	?	<0.002		<0.002	< 0.000	< 0.002	<0.001 2 <0.002
Methyl Parathlon Nickel Nitrate & Nitrite Nitrate Nitriotriacestic Acid Nitrite Parathlon PCBs Phenols Selenium Silver Silvex Suffate Suffate	<0.00 <0.00 <0.00 <0.00	1 <0.002	?	<0.002		<0.002	< 0.000	< 0.002	<0.001 2 <0.002
Methyl Parethion Nickel Nitrate & Nitrite Nitrate & Nitrite Nitriotricostic Acid Nitrite Parathion PC8s Phenots Setenium Silver Silvex Suffate Suffice Toxaphene Uranium	<0.00 <0.00 <0.00 <0.00	1 <0.002	?	<0.002		<0.002	< 0.000	< 0.002	<0.001 2 <0.002
Methyl Parethion Nickel Nitrate & Nitrite Nitrate & Nitrite Nitriotricostic Acid Nitrite Parethion PCBs Phenols Selenium Silver Silvex Surfate Surfate Surfice Toxaphene Uranium Zinc	<0.00 <0.00 <0.00 <0.00	1 <0.002	?	<0.002		<0.002	< 0.000	< 0.002	<0.001 2 <0.002
Methyl Parethion Nickel Nitrate & Nitrite Nitrate & Nitrite Nitriotricostic Acid Nitrite Parathion PC8s Phenots Setenium Silver Silvex Suffate Suffice Toxaphene Uranium	<0.00 <0.00 <0.00 <0.00	1 <0.002	?	<0.002		<0.002	< 0.000	< 0.002	<0.001 2 <0.002
Methyl Parathlon Nickel Nitrate & Nitrite Nitrate & Nitrite Nitritate Nitritoriacestic Acid Nitrite Parathlon PC8s Phenois Selenium Silver Silvex Surfate Surfate Surfide Toxaphene Uranium Zinc 2,4-0	<0.00 <0.00 <0.00 <0.00	1 <0.002	?	<0.002		<0.002	< 0.000	< 0.002	<0.001 2 <0.002

Table A2: Historic Data for Contaminated Soils and Rubble

Code	CONS	CONS	CON	8	CONS	CONS	CONS	CONS
Number	38	39			210	40	41	42
Company Name	Ontario Hydro	Ontario Hydro	Ontario I		Peperboard Indust.	Paperboard Indust	Paperboard Indust	Paperboard Indust.
Address	20 Blackburn St.	Bayview	1050 Million		8 Oriole Dr. Holland Landing	6 Oriole Dr. Holland Landing	8 Oriole Dr. Holland Landing	8 Oriole Dr. Holland Landing
Americal Accesses	Toronto 10	Toronto 100	Toron 60		noming carroing	500	?	?
Amount (tonnes) Date (yy/mm/dd)	92/03/03	92/02/07	91/09/	27	91/09/24	91/09/24	91/09/24	91/09/24
Laboratory	Philip Envir.	Philip Envir.		Philip Envir.	Philip Envir.	Philip Envir.	Philip Envir.	Philip Envir.
Samples for Avg.			(ecg)					
Reg 309 Acid Leach (mg/L)								
Aldrin & Dieldrin								
Aluminum Arsenic	0.003	0.003	0.005		<0.002	<0.002	<0.002	<0.002
Barlum	0.74	0.65	0.12		0.17	2.95	1.95	1.42
BOD							3.8	4.1
Boron Cadmium	<0.1 0.024	0.3 0.034	0.02 <0.002		<0.1 <0.005	0.5 <0.005	0.007	<0.005
Carbaryl	0.024	0.004	\u.u.e		70.000	,		
Chlordane								
Chloride	10.00	<0.05	<0.01		<0.06	<0.05	<0.05	<0.05
Chromium Copper	<0.05	<u.us< td=""><td><b>&lt;0.01</b></td><td></td><td>~~~</td><td>~w.w</td><td></td><td></td></u.us<>	<b>&lt;0.01</b>		~~~	~w.w		
Cyanide	<0.2	0.33	< 0.002		<0.2	<0.02	<0.02	<0.02
Fluorides	<1.9	<1.9	0.21		<1.9 <0.06	<1.9 1.36	<1.9 0.19	<1.9 <0.05
Leed Manganese	<0.05	0.10	<0.02		<u.us< td=""><td></td><td>- Valv</td><td></td></u.us<>		- Valv	
Mercury	0.0033	<0.0002	<0.0001		< 0.0002	<0.0002	<0.0002	< 0.0002
Methoxychlor								<del> </del>
Methyl Parathion Nitrate & Nitrite			0.022					
Nitrate			V.V-2					
Nitrilotriacetic Acid						3		
Nitrite Parathion			0.022	<u> </u>				
Parathon PCBs			<0.00002					
Phenois								
Selenium	<0.002	<0.002	<0.01 <0.005		<0.002 <0.01	<0.002 <0.01	<0.002 0.031	<0.002 0.046
Silver Silvex	<0.01	0.039	20.00			3001		<b>,,,,</b>
Toxaphene								
Trihalomethanes								
Uranium Zinc								
2.4-D								
Distilled Water Leach (mg/L) Aluminum Ammonia	<0.05							
Arsenic	<0.002	<0.002		< 0.002	<0.002	0.002	0.001	0.001
Barlum BOD	<0.1	<0.1		0.1 <5.0	0.11 6.6	0.1 8.3	8.3	3.3
Boron	<0.1	<0.1		1.8	<0.1		0.1	0.2
Bromoform								0.00
Cadmium	<0.005	<0.005		< 0.005	<0.005	< 0.005	0.001	0.00
Carbaryl Chlordane	<del> </del>							
Chloride	4.96	14.8		9.9	109.0	4.9	4,9	4,1
Chloroform				-0.05	<0.05	<0.05	0.01	<0.0
Chromium Copper	<0.05	<0.05		<0.05	<b>~0.05</b>	20.00		10.0
Cyanide	<0.2	<0.2		<0.2	<0.2	<0.2	0.026	0.03
DOT								
Diazinon Fodda				<del> </del>		<del> </del>	<del> </del>	<del> </del>
Endrin Fluorides	<1.9	<1.9		<1,9	<1.9	<1.9	0.162	0.15
Heptachlor & Hept, Epoxide							<0.05	0.00
Lead Mercury	<0.05 0.0009	<0.05 <0.0002		<0.002	<0.05 <0.0002			
Methoxychiar	0.000			- 30.000	10,000			
Methyl Parathion								<del> </del>
Nickel					ļ		<del> </del>	
Nitrate & Nitrite Nitrate		<u> </u>		<del> </del>				
Nitrilotriacetic Acid								
Nitrite					ļ	<del> </del>	<del> </del>	
Parathion PCBs		l			<del></del>	<del>                                     </del>		
Phenois	<0.001			<0.001				
Selenium	<0.002	<0.002		<0.002	<0.002			
Silver Silvex	<0.01	<0.01	<b> </b>	<0.01	<0.01	<0.01	<0.01	0.00
Sulfate	<u> </u>							
Sulfide								
Toxaphene			ļ	<del> </del>	<b></b>	ļ.,	<del> </del>	<del> </del>
Uranium Zinc			<del> </del>	1	<del> </del>	<del> </del>	<del>                                     </del>	
2,4-D								
2.4.5-T							ļ	<del> </del>
Bulk Analyses (mg/kg)	,	1	İ	1	1	1	1	1
PC8s		L	1	1	l .	•	1	1

Table A2: Historic Data for Contaminated Soils and Rubble

Code	CONS	CONS	CONS	CONS	CONS	CONS 46	CONS 46
Number			43	44 Philip Enterprises	45 Philip Enterprises	Philip Enterprises	Ross Wernp Motors
Company Name	Paperboard Indust.	Perm-Lite	Philip Enterprises 77 Brant St.	77 Brant St.	77 Brant St.	77 Brent St.	360 Rendele Blvd.
Address	8 Oriole Dr.	7	Hemilton	Hemilton	Hemilton	Hemilton	Residele
Amount (tonnes)	Holland Landing		200	3000	5000	500	400
	91/09/24	1965	90/12/07	91/06/23	92/05/01	91/12/18	92/02/12
Date (yy/mm/dd) Laboratory	Philip Envir.	7	Philip Envir.	Philip Envir.	Philip Envir.	Philip Envir.	TSL
Samples for Avg.	rimp Elwi.						
Reg 309 Acid Leach (mg/L)							
Aldrin & Dieldrin		ļ					
Aluminum							10 000
Amenic	< 0.002		0.21	0.003	0,002	0.004	<0.006 0.06
Barium	2.40		0.61	0.69	0.00	1.19	
BOD	2.1		<0.1	5.7	0.15	1.1	<0.5
Cadmium	0.020		0.03	0.091	0.07	0.026	<0.006
Carbaryl							ļ
Chlordana							<del> </del>
Chloride			<0.06	29.8	<0.06	<0.06	<0.02
Chromium		<del></del>					
Copper Cyanide	<0.2		<0.26	0.006	<0.2	<0.2	<0.05
Fluorides	<1.9		<1.9	1.83	<1.9	<1.9	0.14
Lead	0.16		0.22	0.99	0.29	0.22	<0.05
Manganese				2000	0.0002	<0.0002	0.001
Mercury	<0.0002		<0.0002	0.0005	u.w.e	70,000	
Methoxychlor							
Methyl Parathion Nitrate & Nitrite							
Nitrate						<b></b>	<del></del>
Nitrilotriacetic Acid							ļ
Nitrite		I					
Parathion							
PCBs Phenois				<0.0001			
Selenium	<0.002		< 0.002	0.001	<0.002	<0.002	
Silver	0.029		<0.01	0.003	<0.01	0.013	<0.05
Silvex						<del> </del>	<del> </del>
Toxaphene							
Trihalomethanes							
Uranium Zinc		<del></del>					
2.4-D							
						ļ	
Distilled Water Leach (mg/L					<b> </b>	1	
Aluminum					1.07		
Ammonia Arsenio		<del></del>	0.009	0.001	< 0.002		
Barium			<0.1	0.07	<0.1		
BOD			12.5	<5.0		<5.0	
Boron			<0.1	<0.1	<0.1	<0.1	<0.5
Bromoform		<0.01	<0.006	<0.005	<0.005	<0.005	< 0.005
Cadmium Carbaryi	<u> </u>	<0.01	<b>~U.UU</b>	74.00	30.00	10.00	
Chlordane							
Chloride	9.9			1,49	54.5	9.9	4.9
Chloroform						1000	<0.02
Chromium		<0.01	<0.05	0.04	< 0.05	<0.05	~0.02
Copper	<del> </del>		<0.26	0.023	<0.2	<0.2	<0.05
Cyanide	1	<del>                                     </del>	<u> </u>	4423			
Diazhon							ļ
Endrin					<u></u>	J	0.03
Fluorides			<1.9	1.24	<1.9	<1.5	<u> </u>
Heptachlor & Hept, Epoxide	9	0.04	<0.1	<0.05	<0.05	<0.00	< 0.05
Lead Mercury	<del> </del>	0.04	<0.0002	<0.0002			
Methoxychlor	1						
Methyl Parathion						<del></del>	
Nickel					<del> </del>	<del> </del>	
Nitrate & Nitrite	<del> </del>			<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>
Nitrate Nitrilotriacetic Acid	<del> </del>	<del> </del>		<del>                                     </del>	<del> </del>	1	
Nitrite Nitrite	<del> </del>	t					
Parathion							
PC8s					ļ		< 0.001
Phenois		0.002	<0.001				
Selenium	<del> </del>	<u> </u>	<0.002 <0.01				
Silver Silvex		<del> </del>	- 4,01		7		
Sulfate	<del> </del>	1		105.71			
Sulfide				17.11			
Toxaphene					<del> </del>	<del> </del>	+
Uranium	ļ	ļ	ļ	<b></b>	<del> </del>	<del> </del>	
Zinc	1	<del> </del>	<del> </del>	<del> </del>	<del>                                     </del>	<b>†</b>	
0.4.0			1	1			<del></del>
2,4-D	<del></del>			T	<u> </u>		
2.4.5-T							

Table A2: Historic Data for Contaminated Soils and Rubble

Code		NS	CONS	CONS	CONS	CONS	CONS	CONS	CONS
Number		0	50	Toronto Board	57				
Company Name	RoyalO		Taylor Steel	of Education	York Blook & Building	Mandan	Alledon	A	Name -
Address	225 East		477 Arvin Ave.	840 Eastern Ave.	9385 Yonge St. Richmond Hill	Meximum	Minimum	Average	Number of Data Points
AA	Herr 200	Miton	Stoney Creek 60	Toronto 24	300				Pear on the
Amount (tonnes) Date (yy/mm/dd)	92/0		91/10.02	92/02/24	92/02/12		1		l
Laboratory	TSI	<del></del>	Philip Envir.	Philip Envir.	Barringer			ŀ	i
Samples for Avg.	CS-1.SS-1	MW-4	T Tang Cital	1 1449 (24104)					
Reg 309 Acid Leach (mg/L)	,	88-3,88-4							
Aldrin & Dieldrin									
Aluminum									
Arsenic	< 0.005	<0.006	0.003	0.004	<0.001 0.866	0.21 2.96	0	0.011	35 33
Barium BOD			1.64	2.38	0.000	2.50			<del></del>
Boron			3.2	1.4	0.05	5.7	. 0	1.02	33
Cadmium			< 0.005	0,058	<0.006	0.4	0	0.03	33
Carbaryi						<del></del>		<del></del>	<del></del>
Chlordane Chloride						29.8	29.8	29.8	1
Chromium			<0.05	0,06	<0.01	0.06	0	0.007	32
Copper									
Cyanide	<0.05	<0.05	<0.2 <1.9	<0.2 <1.9	<0.003 0.26	0.33 1.83	0	0,020 0,15	34
Fluorides Leed	0.38	0.13	0.12	2.45	<0.05	2.45	ŏ	0.23	34 33
Manganese									
Mercury	<0.001	<0.001	<0.0002	0.0025	<0.00005	0.007	•	0.0005	35
Methoxychlor Methyl Parathion							<del>                                     </del>	-	<del> </del>
Nitrate & Nitrite						1.29	0	0.23	6
Nitrate						3.29	•	1.65	2
Nitrilotriacetic Acid								0.005	<del> </del>
Nitrite						0.022	0	0.005	8
Parathion PCBs		<del></del>				0	0	0	
Phenols						0	0	0	2
Selenium			0.004	<0.002	0.001	0.02	0	0.001	
Silver			0.021	0.034	<0.005	0.046		- 0.011	33
Silvex Toxaphene							<b></b>		<del> </del>
Trihalomethanes									
Uranium		9.				0	0	0	2
Zino		ļ				<b></b>		ļ	<del> </del>
2.4-D		<del> </del>				ļ	<del> </del>	<u> </u>	<u> </u>
Distilled Water Leach (mg/L)					-		i		1
Aluminum		ļ							<del> </del>
Ammonia Arsenio	<0.005	<0.005	<0.002	0.002	<0.001	23.26	0	2.86 0.0022	10 34
Barlum	70.005	<b>\0.003</b>	0.16	<0.1	0.046	0.2	ō	0.05	32
BOO			<5.0			17.4	0	4.11	17
Boron			2.0	<0.1	0.04	2.2	0	0.29	32
Bromoform Cadmium			<0.005	<0.005	<0.005	0.006	0	0.0004	33
Carbaryl			70.000		3.030				
Chlordane									
Chloride	11	23	19.8	4.9	1.5	100	0	14.5	33
Chloroform Chromium	<del> </del>	<del>                                     </del>	<0.06	<0.06	<0.01	0.06	0	0.004	33
Copper				~~~					
Cyanide	<0.05	<0.05	<0.2	<0.2	< 0.003	0.22	0	0.000	33
DOT		ļ					<del>                                     </del>	ļ	<del> </del>
Diazinon Endrin		<del>                                     </del>					<del> </del>	<b> </b>	
Fluorides	0.23	0.38	<1.9	<1.9	0.16	1,24	0	0.10	33
Heptachlor & Hept. Epoxide							ļ		
Lead			<0.05	0.00	<0.05 <0.0006	0.000	0	0.0005	
Mercury Methoxychlor	<0.001	<0.001	<0,0002	<0.0002	<0.00005	4.0000	<del>                                     </del>	4.000	34
Methyl Parathion									
Nickel									
Nitrate & Nitrite		<b></b>				0.12	0.12	0.12	
Nitrate Nitrilotriacetic Acid		<del> </del>	ļ ———	-		2.12	0	1.06	<del>                                     </del>
Nitrite	<u> </u>					0	0	0	3
Parathion									
PC8s						0000		00001	1 24
Phenois Selenium	<0.001	<0.001	<0.001 <0.002	<0.001 <0.002	0.0015 <0.001	0.002		0.0001 0.0001	
Silver	<del> </del>	<del> </del>	<0.002	<0.01	<0.005	0.000	ŏ	0.0003	32
Silvex							I		
Sulfate						105,71		105.71	
Sulfide	<del>                                     </del>	<del>                                     </del>	<b> </b>	<del> </del>		17.11	17.11	17.11	<del> 1</del>
Toxaphene Uranium	<del> </del>	<del> </del>	<del> </del>	<del>                                     </del>		<del>                                     </del>	†		<del>                                     </del>
Zino									
2,4-D		<u> </u>					T		
2.4.5-T						ļ	<u> </u>	ļ	ļ
	1	1	1	l	1 .	1	I	I	1
Bulk Analyses (mg/kg) PCBs	1	1	1	1	1	0			

Table A2: Historic Data for Contaminated Soils and Rubble

					1000	3101-17	NHEM	NHEM	NHEM	NHEM
Code	NHEM	NHEM 60	NHEM 61	NHEM 62	NHEM 69	NHEM 64	MACM		THE NAME OF THE PERSON OF THE	141.0
Number Company Name	TTC	πc	TTC	TTC	πc	TTC	1			
Company Name Address							Mesdmum	Minimum	Average	Number of
	Toronto	Toronto	Toronto	Toronto	Toronto	Toronto	1			Data Points
Amount (fonnes)	7	?	?	?	7	7	l			
Date (yy/mm/dd)	88/04/06	88/04/18	86/04/16	86/09/07	86/09/07	80/02/27	1			
Laboratory	Philip Envir.	Philip Envir.	Philip Envir.	Philip Envir.	Phillip Envir.					
Samples for Avg.										l I
Reg 309 Acid Leach (mg/L)	i					· ·	i		1	
Aldrin & Dieldrin								<del> </del>		<del></del>
Aluminum				0.10	<0.05		0.1	0	0.05	2
Arsenic Barlum		1.00	0.79	0.00	0.73		1	0.69	0.80	4
BOD									0.26	4
Boron		<0.1	<0.1	<0.1	1.0		0.105	0.019	0.051	1 4
Cadmlum		0.031	0.019	0.049	0.105		1	40.5	4.55	The state of the s
Carbaryl Chlordane										
Chloride										4
Chromium		0.06	<0.05	<0.05	0.11		0.11	0	0.04	
Copper									<del> </del>	<del> </del>
Cyanide	ļ						1			
Fluorides Leed		<0.06	0.06	<0.06	<0.06		0.06	0	0.02	4
Manganese										
Mercury				<b></b>	ļ		<del> </del>	<del> </del>		<del> </del>
Methoxychlor				<b> </b>	<del> </del>		<del>                                     </del>	<del> </del>		
Methyl Parathlon			<u> </u>	<del> </del>	<del> </del>					
Nitrate & Nitrite Nitrate										
Nitrilotriacetic Acid									ļ	<del> </del> -
Nitrite							<del> </del>	<del> </del>	<del>                                     </del>	<del> </del>
Parathion			<del> </del>	<del> </del>	<del> </del>	<del> </del>	+		<del>                                     </del>	
PC8s	ļ						<del> </del>	1		
Phenois Selenium	<del> </del>									ļ
Silver		< 0.05	< 0.05	< 0.05	<0.06			0	0	4-4
Silvex					<u> </u>		<del> </del>		<del> </del>	<del> </del>
Toxaphene			<u> </u>					<del>                                     </del>	1	
Trihalomethanes					<del> </del>	1				
Uranium Zino									ļ	<u> </u>
24-0								<del> </del>	1	<del> </del>
				ļ	<u> </u>	-	<del></del>	<del> </del>	+	<del> </del>
Distilled Water Leach (mg/L	4	2.00	<0.10	0.16	1	ł	1 4		1.54	4
Aluminum Ammonia	4.0	200	10.10	<u> </u>	<u> </u>					
Arsenic				< 0.05			0			
Barlum	<0.05	< 0.05	0.16	< 0.05			0.16	0	0.04	4
BOO			ļ	10.4	ļ <u> </u>		<del>                                     </del>	-		4
Boron	<0.1	<0.1	<0.1	<0.1	-	<del> </del>	<b>-</b>	1		
Bromoform Cadmium	<0.005	< 0.005	< 0.005	< 0.005		<0.005	5 0	0		5
Carbaryl	10.000								<b></b>	<del> </del>
Chlordane									<del> </del>	-
Chloride	<del> </del>	<del> </del>	<del> </del>				-	<del>                                     </del>	<del>                                     </del>	
Chloroform	<0.05	<0.05	<0.05	<0.05		<0.0	2 0	0		
Chromium Copper	<0.05						0.03		0,000	4
Cyanide					<u> </u>	<del>                                     </del>		+	+	+
DOT		ļ	<b></b>		1	<del> </del>	+	+	+	+
Diazinon	1	<del> </del>	<del> </del>	<del> </del>	<del> </del>	1	<del></del>	1		
Endrin Fluorides	<del> </del>	<del> </del>	<del>                                     </del>							
Heptachlor & Hept. Epoxid	d	1								<del>. </del>
Lead	< 0.05	< 0.05	< 0.05	< 0.05		<0.0	5	4		5
Mercury		<b></b>	<del> </del>	ļ.———	<del> </del>	+	+	+	+	<del>                                     </del>
Methoxychlor	+	<del> </del>	-	+	+	+	1		1	
Methyl Parathion Nickel	<0.05	<0.05	<0.05	0.20	)		0.2		0.0	5 4
Nitrate & Nitrite									.	<del> </del>
Nitrate						ļ	+	<del> </del>	+	+
Nitrilotriacetic Acid		4	<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>	+	+	+	<del>                                     </del>
Nitrite	<del></del>	<del> </del>	1	1	<del> </del>	<del> </del>				
Parathion PCBs	1	<del> </del>	<del> </del>	<del>†</del>	1					
Phenois	1			1		<0.00	1	2	1	)
Seienium								+	<u>,                                     </u>	0 4
Silver	< 0.05	<0.05	< 0.06	< 0.00	<del>'</del>	<del> </del>	<del></del>	9	<u>'</u>	<u></u>
Silvex		<del> </del>	<del> </del>	<del></del>	+	<del>                                     </del>		+	1	
Sulfate Sulfide	<del> </del>	+	<del> </del>	+	1					
Toxaphene	1									
Uranium										1
Zinc	<0.01	<0.0	0.011	0.074	·		0.07	•	0.02	4
2.4-D		-		+	+	<del> </del>		-		
2.4.5-T Bulk Analyses (mg/kg)	+	+	+	+	1	1				
Buik Analyses (mg/kg) PCBs	1	1	1			_l				
						1		1		

Table A2: Historic Data for Contaminated Soils and Rubble

Code	PBSO	PBSD	F	BSD	PBSD	PBSD		PB:		
Number	6	65		67	66	60 To Stord		22		
Company Name Address	Blythe Matthey 195 Heart			i-Don ling 8t. W.	Goodyeer	Tire Plant			rear Tire Symington	
Address	Bram			oronio	Etobie	ooke		Tor		
Amount (tonnes)	150	360		500	58300	79600		2500		
Date (yy/mm/dd)	92/03/20	92/05/01		09/09	90/01/29	90/02/21		90/12		DLW- C (-
Laboratory	Philip Envir.	Philip Envir.	Zenon (Avg.)	Philip Envir.	Berringer (Avg.)	TSL (Avg.)	? (Avg.) 5	EPL (Avg.) 12	A & L Cenede 5 (AVG.)	Philip Enw.
Samples for Avg. Reg 309 Acid Leach (mg/L)			•		"			12	3 prod.)	
Aldrin & Dieldrin										
Aluminum					0,57		0.004.0		<0.001	
Arsenio Barlum	0.002 0.37	<0.002 0.50	0.002	<del></del>	0.002	<0.06 0.34	0.0013		0.53	
BOO					15.3					
Boron Cadmium	<0.1 0.045	<0.1 0.315	0.093		0.020	<0.5 0.002	0.034 0.045		0.014 <0.001	
Carbaryl	0.045	0.315	444		0.000				70.001	
Chlordane										
Chloride Chromium	<0.05	<0.05	0.006	<del></del>	<0.01	<0.05	0.01		<0.01	
Copper	70.00	7000			0.003					
Cvanide	<0.2	<0.2	nd			<0.05 0.29	0.0064		<0.02 0.33	
Fluorides Leed	<1.9 <0.05	<1.9 1.30	1.96 0.36		0.04	<0.05	0.14 0.117		<0.01	
Manganese					0.09	2.55				
Mercury Methoxychlor	0.0006	0.0013	nd	<u> </u>	0.00003	<0.001	0.00036		<0.0005	
Methyl Parathion										
Nitrate & Nitrite			0.17				1.24		6.24	
Nitrate Nitrilotriacetic Acid		<b></b>		<b> </b>				<b></b>		
Nitrite									< 0.03	
Parathion PCBs							0.000046		<0.00002	ļ
Phenois			<u> </u>		0.0013		4.444		<u> </u>	
Selenium	0.002	<0.002	nd			<0.01	0.001		<0.0005	
Silver Silvex	<0.01	<0.01	nd		0.0006	<0.05	0.005		<0.01	<del> </del>
Toxaphene										
Trihalomethanes										
Uranium Zinc		<del> </del>		<b></b>	0.03					
2.4-D										
Distilled Water Leach (mg/L)			ļ							
Aluminum										
Ammonia	4.62							<0.002		
Arsenio Barlum	0,002	<0.002 <0.1		<0.002 0.12		<0.05 0.08		0.034		
BOD		L		10.7		1.1				5.8
Boron Bromdorm	<0.1	<0,1	<u> </u>	0.2		<0.5		0.0017		
Cadmium	<0.005	<0.005		<0.006		<0.005		<0.002		
Carbaryl										
Chlordane Chloride	14.9	9.9		9.9						<del></del>
Chloroform										
Chromium	<0.05	<0.05	ļ	0.01		0.09	L	0.0018 0.0028		<del> </del>
Copper Cyanide	<0.2	<0.2		<0.2		<0.05		<0.02		
DOT										
Diazinon . Endrin		<del> </del>			<b> </b>			<del> </del>		<del>                                     </del>
Fluorides	<1.9	<1.9		<1.9		0.3		0,14		
Heptachior & Hept. Epoxide										
Lead Mercury	<0.05 0.0016	0.06	<b></b>	0.04	<del> </del>	<0.05 <0.001	<0.0002	<0.025 <0.0004		<del>                                     </del>
Methoxychlor	5,55,10									
Methyl Parathion								<del></del>		<del> </del>
Nickel Nitrate & Nitrite		<u> </u>								
Nitrate								0.12		
Nitrilotriacetic Acid Nitrite	<del> </del>	-	<b> </b>	<del> </del>	<del> </del>	<del> </del>		<del>                                     </del>	<b></b>	<b> </b>
Parathion										
PCBs						0.000				
Phenois Selenium	<0.001 <0.002	<0.002 <0.002	<del> </del>	<0.001 <0.002		0.002 <0.01		0.00025 <0.002	<b></b>	
Silver	<0.01			<0.01		<0.05		<0.003		<b></b>
Silvex		` .			1	ļ		<b> </b>		<del> </del>
Sulfate Sulfide	<del>                                     </del>									
Toxaphene								ļ		
Uranium Zino	<del> </del>	<del> </del>	<del> </del>	<u> </u>	<u> </u>	<del> </del>	<del> </del>	0.0023		<del> </del>
2.4-D		<u> </u>		<u> </u>						
2.4.5-T										
Bulk Analyses (mg/kg) PC8s	1	1	1	1	1	l	l	1	1	1
TPH		<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	1	<del>}</del>	<del>                                     </del>

Table A2: Historic Data for Contaminated Soils and Rubble

Code	PBS		PBS			380	PBSO	PBSD	PBSD	PBSO
Number	24		25			70 neportation		l l		
Company Name	Goody			er Tire		I Golf Course	Medmun	Minimum	Average	Number of
Address	Bloor & Sy Toron		Bloor & Sy Toroi			ronto				Deta Points
Amount Assess	100		400			000		]		
Amount (tonnes)  Date (yy/mm/dd)	91/11	/18	91/11	/18		06/01		1	i	1
Laboratory	Barringer (Avg.)		Barringer (Avg.)	Philip Envir.	EPL (Avg.)	Philip Envir.				
Samples for Avg.	3		3		2			1 1		
Reg 309 Acid Leech (mg/L)							Ī	1		]
Aldrin & Dieldrin						<del>-</del>	0.57	0.57	0.57	1
Akıminum Arseniç	0.001		<0.001		<0.01		0.002	0	0.001	10
Barlum	0.443		0.272		0.36		0.95 15.3	0.017 15.3	0.41 15.3	10
BOD			0.037		0.066		0.093	10.5	0.036	10
Boron Cadmium	0.067 0.07		0.037		0.029		0.315	0	0.0542	10
Carbaryl	0.07									
Chlordane										
Chloride	<0.01		<0.01	<del> </del>	<0.01		0.01	0	0.002	10
Chromium Copper	70.01						0,003		0.003	1 9
Cyanide	< 0.003		< 0.003		<0.01		0.0064 1.98		0.36	8
Fluorides	0.23 0.017		0.086 <0.06	<del> </del>	3.24		3.24	0	0.51	10
Leed Manganese	0.017						0.09	0.09	0,003	10
Mercury	<0.0005		<0,0005		0.0004	<b> </b>	0.0013		4.003	1 10
Methoxychlor Methoxychlor	ļ	ļ. —	<del> </del>							
Methyl Parathion Nitrate & Nitrite					2.21		6.24		2.47	4 2
Nitrate	0.07		<0.20		ļ	<b> </b>	0.07	0	0.04	<del>                                     </del>
Nitrilotriacetic Acid			<0.20	ļ	<0.25	<del> </del>	0	0	0	4
Nitrite Parathion	<0.20	<del> </del>		t					0.00004-	-
PC8s	<0.00002		< 0.00002				0.000048		0.000012	
Phenois		L	<0.001		<0.01		0.0013			9
Selenium Silver	<0.001 <0.005	<del> </del>	< 0.005		<0.006		0.005		0.0006	10
Silvex	1000							ļ ——		<del> </del>
Toxaphene				<del> </del>	<del> </del>		+	-	<del> </del>	
Trihalomethanes		<del> </del>		<del> </del>	· · · · · · · · · · · · · · · · · · ·	<u> </u>				
Uranium Zino	<del> </del>	1					0.03	0.03	0.03	1
2.4-D						<del> </del>	<del> </del>			<del> </del>
		<del> </del>		<del> </del>	<del> </del>	<del>                                     </del>	<del>                                     </del>			
Distilled Water Leach (mg/l Aluminum	4	1							ļ	
Ammonia						<0.005	0.000			
Amenic		0.004		0.006		0.20				8
Barlum BOD	<del> </del>	11.3		7.9		<10	11.3	0		
Boron		0.1		0,1		<0.5	0.3	•	0.06	8
Bromoform		<0.005		<0.005	ļ	<0.005		0	- 0	
Cadmium Carbaryi	<del> </del>	₹0.00	-	10.000						
Chlordane							40	4.9	12.37	, 6
Chloride		14.6		4.9	<del> </del>	19.6	19,1	,	12.5	'
Chloroform	<del> </del>	<0.0		< 0.05	<del></del>	0.0	0.0			
Chromium Copper							0.002			
Cyanide		0.2		<0.2	4	<0.0	5 0.2	2 0	0.00	<u>,                                    </u>
DOT		<del></del>		<del></del>	<del>                                     </del>					
Diazhon Endrin	<del>- </del>	<del>                                     </del>								<del>,  </del>
Fluorides		<1.9		<1.9	4	0.2	<u> </u>	3 0	0.00	9
Heptachlor & Hept, Epoxic	ie	1 -00	<del>. </del>	<0.05		0.0	7 0.0	7 0	0.0	
Lead Mercury	<del> </del>	<0.000	2	<0.000		<0.00				4
Methoxychlor						<del> </del>	+		1	
Methyl Parathion		<del> </del>	<del> </del>	<del></del>	<del> </del>	-				
Nickel Nitrate & Nitrite		+	<del> </del>							
Nitrate & Nitrate							0.1	2 0.12	0.1	2
Nitrilotriacetic Acid		-		<del></del>	<del> </del>	+	+			
Nitrite Parathion		+	+							
Paratrion						1	1 0.00	2 0	0.000	3
Phenois		<0.00		<0.00 <0.00		<0.00 <0.0			0.000	
Selenium		<0.00 <0.0		<del>&lt;0.002</del>		<0.0				o l
Silver Silvex										
Sulfate							+			+
Sulfide				+	-	+	+			
Toxaphene Uranium	+			+						
Zinc							0.002	3 0.002	3 0.002	3
2,4-D					<del></del>		+			
2.4.5-T				<del></del>		+	+		1	1
				1				1		
Bulk Analyses (mg/kg) PCBs	ļ	1								

Table A2: Historic Data for Contaminated Soils and Rubble

Code	I EM	EM	EM	=1	EM.	EV I
Number		47				
Company Name	Philip Enterprises Inc.	Philip Enterprises Inc.				
Address	237 Brent St.	237 Brant St.	Maximum	Minimum	Average	Number of
	Hamilton	Hemilton 15000				Deta Points
Amount (tonnes) Date (yy/mm/dd)	200 91/06/06	91/06/06				1 1
Laboratory	Philip Environmental	Philip Environmental				
Samples for Avg.						
Reg 300 Acid Leach (mg/L)						1 1
Aldrin & Dieldrin			<u> </u>			
Aluminum Arsenic	<0.002	0.15	0.15	0	0.075	2
Barkum	0.06	<1.0	0.06	Ö	0.030	2
800			0.5	0	0.250	2
Boron Cadmium	0.5	<5.0 <0.007	0.009	0	0.005	2
Cerbenyl			,,,,,			
Chlordane	ļ					
Chloride Chromium	<0.05	<0.05	0	0	0.000	2
Copper						
Cyanide	<0.2	0.2	0.2	0	0.100	2
Fluorides Lead	<1.9 0.04	<2.4 <0.05	0.04	0	0.000	2 2
Manganese						
Mercury	0.0006	<0.001	0.0006	•	0.000	2
Methoxychlor Methyl Parathion	<del> </del>		<del>                                     </del>			
Nitrate & Nitrite						
Nitrate						<b> </b>
Nitrilotriacetic Acid Nitrite		<del></del>	<del></del>			<del> </del>
Parathion						
PCBs						
Phenois Selenium	0.0001	0.05	0.05	0.0001	0.025	2
Silver	0.002	<0.05	0.002	0	0.001	2
Silvex						
Toxaphene Trihalomethanee			<del> </del>	<del></del>		
Uranium						
Zinc						
2.4-0			<u> </u>	<b> </b>		<b> </b>
Distilled Water Leach (mg/L Aluminum Ammonia						
Ammonia	<0.002	<0.05	0	0	0.000	2
Barlum	0.03	1.0	1	0.03	0.515	2
BOD Boron	<5.0 <0.1	<5.0	0	8	0.000	1 2
Bromoform		<b></b>	<u></u>	<u>_</u>		
Cadmium	< 0.005	<0.005	0	0	0.000	2
Carbaryl Chlordane	<b> </b>				<del> </del>	
Chloride	<b> </b>			<u> </u>		
Chloroform						
Chromium	<0.05	<0.05	0		0.000	3
Copper Cyanide	<0.2	<0.2	0	0	0.000	2
DOT						
Diazhon					ļ	<b> </b>
Endrin Fluorides	<1.9	<2.4	0	0	0.000	2
Heptachlor & Hept. Epoxide						
Lead	0.02	<0.05	0.02	0	0.010	
Mercury Methoxychlor	0,0003	<0.001	0,0003	•	0.000	2
Methyl Parathion	L			<u> </u>		
Nickel					ļ	
Nitrate & Nitrite Nitrate	<u> </u>	<del> </del>		<del> </del>	<del> </del>	
Nitrilotriacetic Acid	t					
Nitrite						
Parathion PCBs	<b></b>	<del> </del>			<del>                                     </del>	<del> </del>
Phenois	<0.001	0.002	0.002	0	0.001	2 2
Selenium	<0.002	<0.01	0	0	0.000	2
Silver Silvex	<0.01	<0.05	0	0	0.000	2
Sulfate		<u> </u>				
Sulfide						ļ
Toxaphene Uranium	ļ	<del> </del>	<del> </del>	-	<del> </del>	<del> </del>
Zinc						
2.4-D						
2.4.5-T Bulk Analyses (mg/kg)	<del>                                     </del>	-	<u> </u>		<del>                                     </del>	<del> </del>
PCBs	1	1	1		1	1
ros						

Table A2: Historic Data for Contaminated Soils and Rubble

Code	ES	0	ESD	ESO	ESD	ESO	ESD	UTE	WSD
Number		31	217					203	214 Sister industries inc.
Company Name		hon Reelly	United Co-Op Ges Ber				N	ITT Flygt Canada 106 Sigway	319 Sherman Ava. N.
Address		ohn St.	Devis Rd.	Meximum	Minimum	Averege	Number of Data Points	Mississauga	Hamilton
		ronto 5000	Newmerket 1800				<u> </u>	200	70
Amount (tonnes) Date (yy/mm/dd)		10/16	91/09/20					91/12/30	91/09/09
Laboratory		lin (Avg.)	Philip Environmental	<del> </del>				Philip Environmental	Philip Environmental
Samples for Avg.	10	16							
Reg 309 Acid Leach (mg/L)				1					
Aldrin & Dieldrin	nd								
Aluminum	0.0015		<0.01	0.0015	0	0,001	2	<0.002	0.003
Arsenic Barlum	0.49		0.30	0.40	0.3	0.395	2	1.52	0.84
BOD								2.7	0.6
Boron	0.013		<0.01 <0.002	0.013	0	0.007	2 2		0.101
Cadmium Carbarvi	0.014 nd			0.014					
Chlordane	nd								
Chloride						0,000	2	<0.06	0.00
Chromium	<0.05		<0.01	0	0	0.000	-		
Copper Cyanide			<0.01	0	0	0.000	1	<0.2	
Fluorides			0.29	0.29	0.29	0.290			
Lead			<0.002	0	0	0.000	1	0.15	0.15
Manganese			<0.001	0	0	0.000	1	<0.0002	<0,0002
Mercury Methoxychlor	nd	<del></del>	~ww!						
Methyl Parathion	nd	ļ						<b> </b>	
Nitrate & Nitrite	0.06				<del> </del>	<del> </del>	<del> </del>	<u> </u>	
Nitrate Nitrilotriacetic Acid	0.36	<del></del>			<del> </del>				
Nitrite	0.0064								
Parathion	nd						<del> </del>	<u> </u>	
PC8s	nd			<del> </del>	<del> </del>		<del> </del>		
Phenois Selenium	0.0007	<del>                                     </del>	<0.01	0.0007	0	0.000	2	<0.002	
Silver	< 0.05		<0.01	0				0.034	0.004
Silvex	nd			ļ	<u> </u>			<b> </b>	<del> </del>
Toxaphene	nd nd			<del> </del>	<del> </del>	<del> </del>	<del> </del>	1	
Trihalomethanes Uranium	<0.02			<u> </u>					
Zino	70.05								
2.4-D	nd	-				<del> </del>	<del> </del>	<u> </u>	<del> </del>
Distilled Water Leach (mg/L)					<del>                                     </del>	<del>                                     </del>			
Aluminum				1	l	<u> </u>	<u> </u>	1	
Ammonia							<del></del>	<0.002	0.007
Arsenic		0.013	<0.01 <0.01	0.013 0.11					
Barlum BOD		0.11	4.0				2	4.2	<5.0
Boron		0.041	<0.01			0.021	2	<0.1	0.6
Bromdorm		nd	-0.000	1	- 0	0.000	2	<0.005	0.005
Cadmium Carbaryi		<0.005		0	<del> </del>		-	1	
Chlordane		nd							
Chloride			<1.0				<del> </del>	0.0	9.9
Chloroform		nd		0.013		0.007	- 2	<0.05	< 0.01
Chromium		0.013	<0.01	0.013	<del>                                     </del>	1 400	†		
Copper Cyanide		<0.01	<0.10	0	0	0.000	2	<0.2	<0.2
DOT		nd				ļ	<del> </del>	<b> </b>	<del> </del>
Diazinon		nd			4	<del> </del>	+	<del> </del>	
Endrin Fluorides		0.28		0.26	0	0.140	1	2.61	1.2
Heptachior & Hept, Epoxide		nd							
Lead		0.0019	<0.002						
Mercury		0.00007		0.00007	0	0.000	<u> </u>		70,000
Methoxychior Methyl Parathion		nd nd		<del></del>	<del> </del>				
Nickel									
Nitrate & Nitrite		0.27			<del></del>	<del> </del>			
Nitrate Nitrilotriacetic Acid		<0.05	<del> </del>	<del>                                     </del>	<del>                                     </del>	+	-	1	
Nitrite		0.04							
Parathion		nd						-	
PC8s		ļ	<0.001	<del> </del>	-	0.000	,	<0.00	1 <0.001
Phenois Selenium		0.00031						<0.00	2 <0.002
Silver		<0.02						<0.0	
Silvex		nd							-
Sulfate		<b> </b>		+	<del></del>	+	<del></del>	#	+
Sulfide	ļ	nd	<del> </del>	+	+	+	+	1	
Toxaphene Uranium		<0.2		1					
Zinc									
2,4-D		nd		4	1	4		<b></b>	<del> </del>
2.4.5-T	<del>                                     </del>	nd	-	+	+	+	+		
Bulk Analyses (mg/kg) PCBs		1	1	1					
TPH	<del> </del>	<del></del>						1	

Code	FCS0	FQ50	PCSD 77	FCSD	FC-ED .	PCSD	PCED		PC80	PCSD 65	FCS0
Humber Company Name	76 Esco/feuco	76 Esso/femage	77 Esse/ferese	70 Esco/Toracco	70 Essa/Rausso	Esse/Foresco	Esse/I		Essa/Foresso	Essa/Tomaso	Esso/Texase
Address	410 Pillian Rd.	216 Burnambago Ad.	Ituy #10	77-65 Front St.	Huy SO & CERN	Character & Marino	Konto A G	rend Reside	446 Mails St. W.	King & Statland	Royal York & Chapman Elektrosio
4	3000	16adecauge 3000		Toronto 8000	Wheels 800	Terente 3000	1000	b Yest	PortCobame 300	Terente 1800	800
Amount (tornes)  Date Annimités	91/09/12	91/02/27	99/09/17	88/01/13	60,00,00	81/04/0Z	91/11/		91/11/20	90/02/07	91/10/08
Date (///www/dd) Laboratory	Jacques Whiterd	164		Philip Emir.	YeL	Philip Envir.	Philip Envir.	Zenon COMIZE	Philip Envir.	TSL.	TOL
No. Semples for Arg. Reg 300 Acid Leach (mgL)			i I		1 1			·	1	í	
Aldrin & Diskdale											
Aluminum Antimony		0.1	41								
Amenio	0.001	<0.06	<0.00	0,026	<4.00 L16	- <b>406</b>	<0.002	<0.000	<0.05	<0.005	
Berline Berdium	0.64	<0.006	<0.005	1.3	2.10						
Bores Cadmium	<0.006	<0.6 0.000	<0.6 <0.006	<0.004	400	<b>49.5</b>	<0.070	<b>₹8,046</b>	44	<0.6 <0.006	
Calolym	<b>49.005</b>	1300	383								
Curbanyl a-Chlordene											
q-Chlordene											
Chloride Chromium	<0.01	<0.03	<0.08	9.00	<0.02	<0.00	44	0,000	<0.00	<0.02	
Cobalt		<0.03	<0.02								
Copper Cyenide	<0.001	<0.08	<0.06	<b>493</b>	<0.01	<0.04		<0.000€	<0.06	<0.06	
Dieztron											
Endrin Fluorides	0.27	0.18	0.06	<1.0	0.00	0.67	626	629	0.27	0.21	
Heptschlor & Hept, Eposide Iron		14	<0.1								
Lead	0.005	<0.05	<0.06	6.30	<0.06	<0.08	<0.06	8	6.20	<0.05	
Lindene Megneskunt	<del>                                     </del>	14	39								
Manganese		6.4	1.4	<0.002	<0.001	<0.001	<0.0008	<0.0002	<0.001	<0.001	
Meroury Methoxychior	<0.0001	<0.001	<0.001								
Methyl Perathion		£0.09	<0.02			<b></b>	-			<u> </u>	
Molybdenung Nokel		<0.02 <0.02	<0.02								
Nitrate & Nitrite Nitrate	<0.02	<0.6	<0.06		<b> </b>	<0.5		6.22			
Nitrilotrisoetic Acid						<0.5		0.000			
Nitrite Perathign	<0.002	<0.5	<0.5								
PC8s	0,0001	<0.003 4 0.10	<0.003			<0.003	-	<0.00008			
Phosphorus Potassium		<50	6								
Selenium Silicon	<0.0006	<0.01	<0.01	<0.002	<0.01	<0.01	<0.002	<0.0008	<0.01	<0.01	
Silver	<0.06	<0.05	<0.06	0.024	<0.08	<0.06	<0.01	<0.01	<0.05	<0.06	
Strontum Strontum	<del> </del>	1.9	13								
Sulphur											
Thefium Tin											
Titenium		<0.01	<0.01								
Totephene Tribetomethenes	6,0006										
Uranium Vanadium		<0.02	<0.02		<del></del>		<del> </del>				
Zno		0.18	0.14								
Ziroonium 24-0		<0.2	<0.2								
4.4-DOT											
2.4.5-TP Distilled Water Leach (mg.L)				-							
Aluminum Ammonia		0.5	ļ	<del> </del>	0.73	<del> </del>	<del>                                     </del>				0.2
Arsenig	<0.001	<0.06	<0.006	0.017	<0.006	<0.001	0.001		<0.002	<0.006	<0.006
Berium 800	<0.006	<0.01 <10	0.24	0.04	0.40	16.67	0.014		<0.1 <6.0	0.10	<0.033 <10
Beryllium		<0.006			I				<0.1	<0.5	<0.006 <0.5
Boron Bromide	0.30	<0.5	<0.1	0.6		14					
Cadmium	<0.006	0.010		<0.006	<0.006	<0.006	<0.005		<0.006	<0.006	<0.006
Calcium Chloride	610	22	7.4	4.0			42.0		4.94	14	1.3
Chromium Cobelt	<0.01	<0.02 <0.01	<0.02	<0.06	<0.05	0.02	<0.06		<0.06	<0.02	<0.03
<u> </u>											
Copper Cyanide	<0.002	<0.06	<0.06	<0.2	<0.06	<0.2	0.002		<0.2	<0.06	<0.05
Fluorides	0.27	0.17	0.29	<1.9	14	<1.9	1.1		<1.9	0.00	0.18
iron Leed	<0.06	<0.08	<0.06	<0.06	0.16	<0.06	<0.08		<0.05	<0.06	<0.05
Megnestum	ļ	2.7							<del> </del>	<del> </del>	16
Manganese Meroury	<0.0001	<0.001	<0.001	<0.0002	<0.001	<0.0002	<0.0008		<0.0002	<0.001	<0.001
Molybdenum Nickel		<0.02				<del> </del>	<del> </del>	<del> </del>	<del> </del>		<0.02
Mirate		7.00									
Nitrite PC8s	<del> </del>	<del> </del>	<del></del>	<1.0	<del> </del>	<del></del>				<u> </u>	
Phenois	0.000	<0.001	<0.001	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
Phenol (retest/) Phosphate	1	<del> </del>		<del></del>	<del></del>	<u> </u>	<del></del>		<u> </u>		
Phosphorus		0.06						$\vdash$		<del>                                     </del>	<0.1
Potessium Selenium	<0.0006	<60 <0.01	<0.01	0.000	<0.01	<0.0002	6,000		0.006	<0.01	<0.01
Silicon	1			<0.01	<0.05	<0.01	<0.01		<0.01	<0.05	<0.06
Silver Socium	<0.006	<0.06	<0.06								<0.5
Strontum Sulfate	+	0.06	<del>                                     </del>	<del> </del>	+	<del> </del>	<del> </del>	<del> </del>	<del>                                     </del>		24
Supplus					<del></del>						
Thelium Titerium	<del>                                     </del>	<0.01		<del> </del>	<del> </del>	<del>                                     </del>	<del></del>		<u></u>	<u> </u>	<0.01
Vanedium		0.02	<b></b>				$\overline{}$	$\Box$			<0.02 <0.02
Zine Zirconium		<0.02	<u> </u>		<u> </u>	<del></del>					<0.02
Bulk Analyses (mg/kg)											
Bergene Ethybergene	<del> </del>	<u> </u>		t	<u>t                                      </u>						
PCBs Toluens		ļ				<del>                                     </del>	+	+	<del></del>	<del>                                     </del>	<del> </del>
TPH											<u> </u>
		44.3	210								

nd Not Detects

<sup>#</sup> Relast done by Philip Environments

Reg 200 leach test done by TSL, distilled water leach done by Philip Environment

Part											
Column   C	Code	FCSO		FOR	PCSD.		FCSD	PCSD S4	PCS0 97		
Martin   M	Number				East/Tourse		Esso/Taxano	Eco/Tourse	Essa/Tunase	Esse	/Texase
The column   The	Address	Albien & Martingrove	Hey 8 & Late St.	Index Pd.	STOLandedown St.					et we	Maryland St.
Company   Comp				Pert Credit	Peterborough 6000				1200	1800	
The part is brown and part is a part is part is a part is a part is a part is a part is a part is a part	Date Antonial			91/19/20	91/11/14	91/11/67	61/00/OS	91/89/16			
March   Marc	Laboratory			Zenon	Philip Envir.	Philip Envir.	-	to end led	Princip Crieds	riano Elivo.	
Marie   Mari	No. Semples for Avg.								1	1	
March   Marc	Aldrin & Dieldrin										
April	Aluminum								-8.898	AAAA	<0.00I
Separation   Color	Areento	<0.006	6,069	<0.00	0.001				346	8401	200
Color	Berlett	<0.006							491	801	<0.043
Company	Soren		CO.005	<0.004	<0.004	0.00			610	0.000	<0.005
Company   Comp	Calolum	1200									
Crosses	Carbaryl aChlordene										
Company	e-Chiordene										
Control   Cont	Chromium	<0.08	<0.05	<0.004	1,004	400			405	0.000	44.01
Control   Column	Cobalt	<0.01							-00	0.0002	<0.003
Color	Ovenide	<0.05	<0.2	<6.000€	ess	40.2	<b></b>				
Part   Part	Endrin								419	0.01	0.12
Part	Pluorides	0.24	<1.9	9.24	9.8						
Light   Section   Light   Li	Iron				-0.08	417			0.19	0.02	<0.06
Heatened   1	Long								<del></del>		
March   Marc	Megneelym	13				<del></del>					-0.00
Memorate   Memorate	Meroury	<0.001	<0.0002	<0.001	<0.0002	<0.001			<0,002	0.0002	<4.00.00
Ministration   Color	Methoxychlor	<del> </del>						Ţ <u></u>			
Strict   1875	Molyodenum					<del> </del>		<del> </del>			
High   150									<del> </del>	<del>                                     </del>	<0.2
Priest	Nitrate	<0.5									co.
Chief	Nitrite	<0.5						<del></del>	<u> </u>		
Prosecution	Parathion PCBs	<0.003									<0.02
Special   Subble	Phosphorus	<0.1			ļ	-					
Misself	Selenium		<0.002	<0.001	<0.008				<0.002		
Person	Silicon	<0.06	<0.01	<0.01	<0.01	<0.01			9.01	0.01	<0.006
Section   Sect	Sodium	<0.6									
The content	Strontum	13									
Timelore	• Thelium				<del> </del>						
Tribition   Trib	Titanium	0.00									
Version   Cold											
Description   Color	Uranium						<del>                                     </del>				
24-07 5-1-07 Datised Water Leach regic) American	Zno	0.64					F				
School   S		<02	<del> </del>								
Depther   Name	4.4-007										
Abresies	Distilled Water Leach (mg/L)					1					
Armen's GL COST COST COST COST COST COST COST COST	Aluminum	-	<del> </del>								
September   Sept	Arsenio		0.002	<0.001	0.000	<0.06					
Berrian   Col.   D.P.   D.O.D.   Col.   D.O.D.	BOO		<6.0		<0.0	<0.0				4	<del> </del>
Reminde	Beryllium		-01	0.04	9,015	0.00	·			<b>d</b>	
Cederium   C0009   C	Bromide					1	<b>#===</b>			+	1
Crienties	Cadmium		<0.006					1			
Chroman   Cours   Co	Chloride		49	- 10 M	20 MA	400	4		<0.05		
CODE   CODE	Cobalt						4		-	-	<u> </u>
Cyenide			<del> </del>		<del></del>					<b>T</b>	-
Leed	Cyanide		<0.2	0.00	<0.2		+====	1			
Lead   Qub   Cquare   Management   Management   Cquare   Management   Cquare   Cqu	lron		1	i	1	1				+	<u> </u>
Mercyany   40,0002   40,000   40,0008   40,0	Lead		6.09	<0.08		·	<u> </u>			-	Ţ
Mercany   Caudage   Mercany   Merc	Manganese					<b>60.00</b>		+	<0.0002	$\pm =$	
Notes	Meroury Mohibdenum	1	40,000								+==
Nerrig	Nickel	<b></b>	<del> </del>			<del> </del>	<b>-</b>				
Phenote	Nitrite			ļ	T		-			<del>                                     </del>	1
Press Extends	PCBs Phancis	<del>                                     </del>	<0.001	0.00	<0.001	<0.001			<0.001		
Prospection	Phonol (retest/2)		<b></b>		<del>                                     </del>	+	<del>                                     </del>				+-
Prisonal	Phosphorus	<u> </u>			$\bot$		<b>T</b>			1	+
Selection   Sele	Potessium		<0.000	<0.00d	<0.002		<del></del>		<0.002		
Sheet	Silicon								<0.01		
Strontum   Surfee   Substant	Silver		<0.01	<0.01	- <9.01						
Substay   The Num   The	Strontum						+	1			
Therape	Suffete										+
Venedam   Zire	Theffurn	<del>                                     </del>				1					+=
Zing	Vanadium			<b></b>							+=-
Bulk Analyses (mg/rd)	Zho				+	<u> </u>					
Embersone	Bulk Analyses (mg/kg)										
PCGs Tolume TPH 2.9	Benzene	<del>- </del>		t							_
TPH 2.9 TPH 2.	PC86		_				+				
TMI 29	TPH					<b>T</b>					
	TVH										

Code Number										
	FGSD.	FC%D 100	FC8D 102	FC80 109	FCSD 104	FCSD 108	PCSD 108	FC80	FCSD 108,109	FCSD 116
Company Name	Essa/Tours	Ecot/Tonaco	East/Tunne	Ecos/Toronto	Base/Fausse	Ecos/Foresco	Good/Torrado	Eco/Tones	Essa/Tenses	Ease/Forese
Address	1010 Wilson Ave.	207 Contenuis Plans.	Hay 10 & Contrack	10 Marianaga Pul.	10 Mesissangs Pd.	10 Manisonage Fed.	10 Mississauga Pel.	10 Maximuya Pd.	10 Mosissanga Pal.	10 Masianaga Ad.
	North Yerk	Hamilton 400	Pk_Toronto	PortCredt	PortCredit	PortCredit 1	PertCredit	Pert Credit 6000	Pert Credit 10000, 12000	Port Credit 8000
Amount (tornes) Date (yy/mm/dd)	2000 91/09/01	91/10/03	81/10/05	89/07/16	89/11/08	89/01/04			90/12/11, 90/11/25	90/11/05
Laboratory	Philip Envir.	Zanon	184.	TOL	TOL.	18.	91/02/11 Zanon (Call 3C)	7 (0=134)	7 (Call 38)	1 (Call SV)
No. Semples for Avg.		02342094							10	•
Reg 309 Acid Leash (mgL) Alden & Dieldes	į	68342191				· ·			<0.00000	
Aluminum							9.27			
Antimone	0.008	≪0.00€	<0.005				439		8,0008	
Arenie Berum	0.12	0.038	43				4.0	0.33	0.16	0.20
Bereitett							<0.001	400	0.08	0.00
Contribute	<0.1	<0.008 0.000	<0.5 <0.005				0.03 0.0013	6.003	<0.00	0.02
Bores Cadrilum Calclum Carbaryi									<0.0005	
a-Chlordene									<0.00002	
g-Chiordene									<0.00002	
Chloride	<0.05	<0.004	<0.08				<0.004 4	0.006	<0.004	0.005
Chromkes Cobell							0.04			
Cooper Cyanide	<0.2	<0.0002	<0.04				<0.006		0.0002	
Distince									<0.0002	
Endrin	<1.9	0.23	0.30				9.17	0.10	<0.00002	0.19
Fluorides Hentschior & Hent Engride									<0.00002	
tron			40.00				<0.08		-mm	
Leed Lindene	0.02	<0.02	<0.08						<0.02	
Megnesium							24.17			
Manganese Mercury	<0.0008	<0.001	<0.001				7.26 <0.0008	N.	<0.0002	M
Methosoroblor									<0.00006	
Methyl Parathios Molybdenum							<0.08		<0.0002	
Niokel							0.02		<0.2	
Nitrate & Nitrite Nitrate							9.076	N.		nd.
Nitritotriacetts Asid							<0.000		<0.2	nel
Nitrite Parathion									<0.0002	
PC8s							<0.06		<0.001	
Phosphorus Potestum					-		1.1			
Selenium	<0.002	<0.001	<0.01				<0.001		0.0006	- Md
Silicon	0.002	<0.01	<0.06				<0.01	-	<0.01	nd .
Sodium							22			
Strontum							1.06			
Suphur Thellum							<0.00			
Tin Titunium							0.007			
Toxephene									<0.002	
Trihalomethenes									<0.001	
Uranium Vanadium							<0.006			
Zno							<b>Q.048</b>			ļ
Zroonium 2.4-0									<0.0002	
4.4-00T 24.5-TP									<0.0002 <0.0001	<del> </del>
Distilled Water Leach (mg/L)										
Aluminum							<0.09			
Ammonia Arserio	0.003									
Berlum		<0.002	<0.005				<0.001	md .	<0.001	, ad
BCO Beryllum	0.56	<0.002	<0.005				0.047	nd 0.22	0.077	
De years	0.66	0.013 <20	<0.005 0.26 <10				<5 <0.001	0.22	0.077 1.A	0.22
Boron	0.06	0.013	0.25				40,007 <0,001 0,0007	0.22 0.04	0.077	84 0.22 0.24
Boron Bromide	0.56	0.013 <20	<10 <0.6	0.006	<0.008	<0.008	<5 <0.001	0.22	0.077 1.A	0.22
Boron Bromide Cadmiure Calolum	9003 67	0.013 <20 0.043 <0.002	<0.008	0.008	4,08	<0.008	0,047 <4 <0,001 0,0067 <0,8 0,0017 28.6	0.22 0.04	0,077 1,4 0,09 <0,002	0.22 0.04
Boron Bromide Camium Caloum Chloride	0.56 0.2 0.003	0,813 <20 0,043 <0,002	0.28 <10 <0.8 <0.006				0,057 <\$1,001 <0,001 0,0067 <0.8 0,0017 28.8 2.96	0.22 0.04	0.077 1.4 0.00	0.22
Bronnide Cadmium Calcium Choride Chromium Choride Chromium Cobat	9003 67	0.013 <20 0.043 <0.002	<0.008	0.006	<0.005	<0.006	4.067 4.067 4.0087 4.0017 2.0.5 4.0014 4.0014	0.22 0.04	0,077 1.A 0,000 <0,000	0.22 0.04
Boron Bromide Cadmium Catolum Chloride Chromium Cobell Coco	0.56 0.2 0.003	0,813 <20 0,043 <0,002	0.28 <10 <0.8 <0.006				4.067 4.067 4.0067 40.8 6.0017 20.5 4.004 4.004 4.004 4.004 4.004 4.004 4.004 4.004 4.004 4.004 4.004	0.22 0.04	<0.000 <0.000 <0.000 16.1	0.22 0.04 md 0.0007
Boron Bromide Cadmura Calolum Choride Cromium Choride Cromium Cobert COD Copper Copper Copper	0.56 0.30 0.000 4.96 <0.05	40.003 40.003 40.003 40.004	<10. <10. <10. <10. <10. <10. <10. <10.				4047 <\$   \$0000000000000000000000000000000000	0.24 0.04 msl 0.006	0.077 1.4 0.002 <0.002 16.1 <0.0004	0.22 0.04 ms 0.0007
Beron Bromide Cadmium Calchum Calchum Chtoride Chromium Cobell COO Copper Cyunide Plurides	0.00 0.000 0.000 <0.005	<0.003 <0.002 <0.002 <0.003	<0.008 <0.008 <0.008				4047 <\$   \$0000000000000000000000000000000000	0.24 0.04 msl 0.006	0,977 1.6 0,000 <0,0000 16,1 <0,0000 0,0000	0.22 0.04 md 0.0007
Boron Bromide Cadmium Calchum Calchum Chtoride Chromium Cobell COO Copper Cyunide Fluorides Iron Lend	0.56 0.30 0.000 4.96 <0.05	40.003 40.003 40.003 40.004	<10. <10. <10. <10. <10. <10. <10. <10.				40.07 <0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.005	0.24 0.04 msl 0.006	0.077 1.4 0.002 <0.002 16.1 <0.0004	0.22 0.04 md 0.0007
Bronn Bromide Cadmium Cathum Cathum Chloride Chromium Cobert COP Copper Comide Fluorides Iron Lend Magnesium	0.00 0.000 0.000 <0.05	0.013	<10 <10 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.0	0.02	488	40.08	4047 -5 -60,001 -60,007 -20,5 -60,001 -60,	0.24 0.04 msl 0.006	0.000 1.4 0.002 <0.002 16.1 <0.000 0.000 0.40 <0.000	0.22 0.04 md 0.0007
Beron Bromide Cadmium Calchum Calchum Chloride Chromium Cobell Copell Copell Copell Copell Comide Fluorides Iron Lend Magneshm Menoamese	0.00 0.000 0.000 <0.05	0.013	<10 <10 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.0	0.02	488	40.08	9,047 <3 0,0007 20,5 0,0017 20,5 40,001 40,001 40,001 40,000	0.24 0.04 msl 0.006	9,977 1.4 9,000 <9,000 16,1 <0,000 9,000 9,000	0.22 0.04 md 0.0007
Berein Bromkde Cadmium Calchum Calchum Chloride Chromkun Cobert Coper Coper Coper Comide Fundes Iron Lend Magneslum Mercury Mohdenum	0.56 0.20 0.000 <0.05 4.89 <0.25 8.8	49.698 49.698 49.698 49.698 49.698 49.698 49.698 49.698	<10 <10 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00<	0.02	488	40.08	4967 73 73 74 74 74 74 74 74 74 74 74 74 74 74 74	0.22 0.04 Rel 0.005	0.000 1.4 0.000 <0.0004 0.0004 0.0004	0.22 0.04 md 0.0007 0.0007 0.000 1.1 0.86
Berein Bromide Cadmium Cabuum Cabuum Chloride Chromium Cobest CCO Copper Cyenide Fluorides Iron Leed Megneetum Menoarrese Mecury	0.56 0.20 0.000 <0.05 4.89 <0.25 8.8	49.698 49.698 49.698 49.698 49.698 49.698 49.698 49.698	<10 <10 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00<	0.02	488	40.08	487 78 78 78 78 78 78 78 78 78 78 78 78 7	0.22 0.04 mel 0.005 1.1	0.000 1.4 0.000 <0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004	0.22 0.04 md 0.0007 0.0007 0.000 1.1 0.45
Breen Brownie Brownie Cadmium Cabuum Chloride Chronide Chronide Chromium Cobest CCO Copper Cyrnide Fluorides Iron Leed Megneehen Menoersee Merour Mohdemm Nokel Nokel Nokel	0.56 0.20 0.000 <0.05 4.89 <0.25 8.8	49.698 49.698 49.698 49.698 49.698 49.698 49.698 49.698	<10 <10 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00<	0.02	488	40.08	9,047 -(3) -(4),000 -(4	0.22 0.04 noi 0.000	0.000 1.4 0.000 <0.0002 18.1 <0.0004 0.000 0.31 <0.0002	0.22 0.04 md 0.00 0.0007 0.0007 0.0005 0.0005
Beron Bromide Cadmium Calobum Calobum Chloride Chromium Cobest Coco Copper Copper Cyenide Fluorides Iron Leed Magnesium Menoarese Meroury Mohdenum Nokel	0.56 0.20 0.000 <0.05 4.89 <0.25 8.8	49.698 49.698 49.698 49.698 49.698 49.698 49.698 49.698	<10 <10 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00<	0.02	6.02	40.08	487 78 78 78 78 78 78 78 78 78 78 78 78 7	0.22 0.04 mel 0.005 1.1	0.000 1.6.1  <0.0002  -0.0002  -0.0000  0.000  0.000  0.000  0.000  -0	0.22 0.04 0.6 0.007 0.0007 0.0005 1.1 0.465 0.46
Berein Bromide Cadmium Calobum Calobum Chloride Chromium Cobest CCO Copper Copper Copper Parrides Fron Leed Megneshyn Mercere Mesoury Mohodeman Note Note Note Note Note Note Note Note	0.56 0.20 0.000 <0.05 4.89 <0.25 8.8	40.004 40.004 40.004 40.004 40.004 40.004	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.02	6.02	<0.02	487 78 78 488 78 488 783 783 783 783 783 783 783 783 783 7	0.22 0.04 md 0.005 1.1	0.000 11.4 0.000 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004	0.22 0.04 0.6 0.007 0.0007 0.0005 1.1 0.465 0.46
Beron Bromide Cadmium Calobum Calobum Chloride Chromium Cobest CCO Copper Comide Phorides Rori Leed Magneshyn Meroseee Mesoury Mohodeman Notol Nitribe Phorides Phorides Nitribe PCBs Phorides	0.56 0.20 0.000 <0.05 4.89 <0.25 8.8	40.004 40.004 40.004 40.004 40.004 40.004	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.02	6.02	<0.02	487 788 888 788 788 888 78	0.22 0.04 md 0.005 1.1	0.000 1.6.1  <0.0002  -0.0002  -0.0000  0.000  0.000  0.000  0.000  -0	0.22 0.04 0.6 0.007 0.0007 0.0005 1.1 0.465 0.46
Breen Bremide Cadmium Catolum Catolum Chloride Chronide Cromium Cobert Coper Coper Coper Coper Comide Inon Leed Magnesium Minosmese Merour Mohodeman Noted Noted Phonole Phonole Phonole Phonole Phosphonu Prosphonu Posselum	0.56 0.003 0.003 <0.05 0.002	0.013	<0.000	<0.02	6.02	<0.02	4007 400	0.22 0.04 md 0.005 1.1	0.000 1.6.1 0.000	0.22 0.04 0.0 0.007 0.0007 0.0007 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006
Boron Boronide Cadmium Cabuum Cabuum Chloride Chromium Cobest CCO Copper Connide Fluorides Iron Lend Megnestum Megne	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	4007 400	0.22 0.04 noi 0.0 0.005 1.1 noi 0.004 0.005	0.000 1.6 0.000  <0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	0.22 0.04 0.0 0.0 0.007 0.0007 0.0005 1.1 0.005 md 0.004
Berein Bromide Cadmium Calchum Calchum Chloride Chromium Cobest CCO Copper Certide Phorides Ron Lessi Megreshirp Mercury Mohodemmi Noted Intrine Phorides Phorides Mercury Mohodemmi Noted Intrine PCBs Phonolosis Phonolosis Phonolosis Phonolosis Phosphonus Potesshum Beterium	0.56 0.003 0.003 <0.05 0.002	0.013	<0.000	<0.02	6.02	<0.02	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.22 0.04 0.0 0.005 1.1	0.000 1.6.1 0.000	0.22 0.04 0.0 0.007 0.0007 0.0007 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006
Boren Bromide Cadmium Cabuum Cabuum Chloride Cromium Cobest Cromium Cobest Copper Cyenide Fluorides Iron Leed Megneshem Menoarises Menoarises Menoarises Menoarises Menoarises Phonole Phonole Phonole Phonole Phonole Phonole Phonole Phonole Phonole Phonole Phosohonu Belonium	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	40007 (400007	0.22 0.04 0.00 0.000 1.1 md	0.000 1.6 0.000  <0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	0.22 0.04 0.0 0.0 0.007 0.0007 0.0005 1.1 0.005 md 0.004
Boren Bromide Cadmium Cabuum Cabuum Chloride Cromium Cobest Cromium Cobest Copper Cyentde Fluorides Iron Leed Megneshem Menoarsee Menoar Monoarsee Menoar Monoarsee Phonoi	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02		0.22 0.04 nol 0.0 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6 0.000  <0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	0.22 0.04 0.0 0.0 0.007 0.0007 0.0005 1.1 0.005 md 0.004
Boron Boronde Cadmium Catchum Catchum Chloride Chromium Cobest CCO Copper Cyentele Pluorides I ton Lessi Megneshup Mesorese Mesory Merody Mesorese Mesory Mondemun Noted I terrie I ter	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	480 480 480 480 480 480 480 480 480 480	0.22 0.04 nol 0.0 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6 0.000  <0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	0.22 0.04 0.0 0.0 0.007 0.0007 0.0005 1.1 0.005 md 0.004
Boren Boren Bromide Cadmium Calchum Calchum Chloride Chromium Cobest CCO Copper Cyentde Fluorides I ton Leed Megneshup Mesoreshup Me	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	18 18 18 18 18 18 18 18 18 18 18 18 18 1	0.22 0.04 nol 0.0 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6 0.000  <0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	0.22 0.04 0.6 0.0007 0.0007 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008
Boren Borende Cadmium Cabuum Cabuum Chloride Cromium Cobed Cromium Cobed Copper Comium I.ced Inon I.ced Magnesham Menoarises Phosohote Phosohote Phosohote Phosohote Phosohote Phosohote Phosohote Selenium Selen	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02		0.22 0.04 nol 0.0 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6.1 0.000 <0.0004 0.0009 0.0009 0.000 0.0009 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.22 0.04 Mi 0.0007 0.0007 0.0006 1.1.1 0.45 Mi 0.004 Mi 0.004 Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi
Boren Borende Cadmium Cabuum Cabuum Chloride Cromium Crobert Coper Commun Cobert Coper Coper Comide Fluorides Inon Lend Meanestum Menosriese Mercury Mothodeman Notal Notal Notal Prosporte Phonol Pho	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	18 18 18 18 18 18 18 18 18 18 18 18 18 1	0.22 0.04 nol 0.0 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6 0.000  <0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000	0.22 0.04 0.0 0.0 0.007 0.0007 0.0005 1.1 0.005 md 0.004
Boron Boronde Cadmium Catchum Catchum Chloride Chromium Cobest CCO Copper Cyentele Pluorides I ton Leed Megneshirp Mesoreshirp	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0.22 0.04 nol 0.0 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6.1 0.000 <0.0004 0.0009 0.0009 0.000 0.0009 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.22 0.04 Mi 0.0007 0.0007 0.0006 1.1.1 0.45 Mi 0.004 Mi 0.004 Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi
Boron Bromide Cadmium Catolum Catolum Chloride Chromium Cobert Copper Comium Cobert Copper Comide Fluorides Inon Leed Magnesium Minoamese Merour Monoamese	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0.22 0.04 nol 0.0 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6.1 0.000 <0.0004 0.0009 0.0009 0.000 0.0009 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.22 0.04 Mi 0.0007 0.0007 0.0006 1.1.1 0.45 Mi 0.004 Mi 0.004 Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi
Boron Bromide Cadmium Catolum Catolum Chloride Cromium Cobert Coper Commun Cobert Coper Comide Fluorides Inon Leed Magnesium Menoamese Merour Mohodeman Noted Noted Noted Phronic Phosolonus Proselum Belonus Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Proselum Belonus Boronus Bor	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0.22 0.04 nol 0.0 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6.1 0.000 <0.0004 0.0009 0.0009 0.000 0.0009 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.22 0.04 Mi 0.0007 0.0007 0.0006 1.1.1 0.45 Mi 0.004 Mi 0.004 Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi
Boron Boronde Cadmium Calchum Calchum Chloride Chromium Cobert Copper Copper Cyanide Fluorides Fruorides F	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0.22 0.04 nol 0.09 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6.1 0.000 <0.0004 0.0009 0.0009 0.000 0.0009 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.22 0.04 Mi 0.0007 0.0007 0.0006 1.1.1 0.45 Mi 0.004 Mi 0.004 Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi
Boren Brorride Cadmium Cabuum Cabuum Chloride Cromium Cobes Cromium Cobes Copper Cyentde Fluorides Iron Leed Megnesham Menoarises Merour Mohodeman Noted Noted Princip Prosphona Princip Prosphona Princip Prosphona Princip Belon B	<0.05 <0.05 <0.05 <0.05 <0.05 <0.002	0.013	<0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00	<0.02	6.02	<0.02	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0.22 0.04 nol 0.09 0.006 1.1 nol 0.006 nol 0.006 nol 0.006 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	0.000 1.6.1 0.000 <0.0004 0.0009 0.0009 0.000 0.0009 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.22 0.04 Mi 0.0007 0.0007 0.0006 1.1.1 0.45 Mi 0.004 Mi 0.004 Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi Mi

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Code	PCSO	FC80 112	113	PC80 114	116	7080 116	117	116	119	PC80 120
Number Company Name	111 Esso/Tousso	Esse/Foration	Esse/Toronto	Essa/forese	Essa/Russe	Esso/Torano	Eme/femate	Essa/Tousse	Esse/Tousse	Eme/Toward
Address	10 Mesissanga Pel.	O Mindresuga Phil. 1	O Mindressign Pal.			Pert Credit	10 Manissauga Rd. Part Cradit	10 Mexiconya Ad. Pert Credit	10 Mexicomps Ad. Port Credit	18 Mesisangs Rd. Part Credit
	Pert Credit 760	Port Credit 700	Pert Credit Si00	Pert Credit 5000	Port Credit Side	1000	1000	1000	3000	2000
Amount (tormes) Date (typhreyldd)	92/01/03	90/01/03	90/01/98	91/13/10	91/12/04	91/11/89	91/11/20	01/11/20	91/11/27	91/11/81 Philip Envir.
Laboratory	Philip Envir.	Philip Envir.	Philip Emir.	Philip Envir.	Philip Envir.	No constitution	Zenort	Zenon	Philip Envir.	riap cine.
No. Samples for Avg. Reg 200 Asid Leash (mg/L)			l			della.				
Aid in & Disidite										
Aluminum										
Antimonic Areento	6.003	<0.002	0.002	<0.002	<0.004		<0.001 0.30	0,001	<0.000	0.00
Berlett	0.62	6.5	026		8.64					
Beryflyst Boron	0,006	0.000	9.094	0.000	0,14		9,001	9.079	<b>4847</b>	<0.00
Borest Cadmium	<0.006	<0.004		0,004	0,006					
Catolum Çarberyl										
a-Chlordene										
e-Chlordene Chloride							400	<0.004	9,010	6.00
Chromium	<0.06	<0.05	0,006		0.005		9.012			
Copper					0.001		<0.0008	0.21	<0.2	0.000
Cyeride Diszinos	<0.2	বাঃ	- di	<0.1	- CANA					
Endrin				0.20	A10		0.14	0.21	10	
Fluorides	011	6.17	0.34		013					
Heptschier & Hept. Eposide Iron					0.044		<0.02	<0.08	<0.08	0.02
Lead Lindene	<0.06	<0.08	<0.08	<b>A.13</b>						
Megneskint							-	<b></b>		<u> </u>
Mengenese Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.000€		<0.0001	<0.0001	<0.0002	<0.0002
Methographian							<del></del>	<del> </del>		
Methyl Parathion Mohybdenum										
Nickel							<del>                                     </del>	<del> </del>		
Nitrate & Nitrite										
Nitrate Nitriotiscelo Acid						<del></del>	<u> </u>		<u> </u>	
Nitrite Parathion										
PC84							<del>                                     </del>			
Phosphorus Potestum	<u> </u>							<0.001	<0.000	<0.002
Selentum	<0.002	<0.008	<0.005	<0.008	<0.00€		<0.001			
Silicon Sever	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
Sodum							1			
Stronture Sulphur									<del> </del>	
Theffurn										
Tin Thanken									<del> </del>	<del> </del>
Toxephene					<del></del>					
Trihalomethanes Uranium										<del> </del>
Vanedium							<del></del>		<del></del>	
2ne							Ĺ			
Ziroonkira										
Ziroonium 2.4-0										
2.4-0 4.4-007 2.45-TP										
24-0 24-0 44-001 245-TP Distilled Water Leach (mg/L)										
Zirognium 2.4-D 4.4-DOT 2.4.5-TP Distiled Water Leach (mg.L) Aluminum Armonia							6000	<b>am</b>	<0.002	9.00
Zivoonium 2.4-D 4.4-DOT 4.4-DOT 2.4.5-TP Disblied Water Leach (mg.L) Aluminum Arvenoria Arsenia	9.003	<0.002	<0.00E	<0.002	<0.008 0.007		<0.001 0.009	<0.001	<0.002	9.00
Ziroonkm 24-D 4.4-OOT 2.4.5-TP Disbled Water Leach (mg.L.) Alamisum Armonia Araenia Barkun BOO	9.002	<0.002	<0.008 0.001	<0.002 0.005 122	<0.008 0.007 7.0		<0.000 0.000	0,046	<0.002 0.002 <80.6	
Ziroenkm 24-0 4.4-007 2.4.5-TP Distilled Water Leach (mgA) Abmissm Armenta Arsenia Berkm BOO Berytism	0.082	0.00	0.001	0.006 12.2	0.067 7.0		0.009	4	0,027 <30,6	
Ziroenkra 24-0 44-007 245-TP Disbled Water Leach (mgA) Ahminum Armonia Arseria Berlum 800 Beryllum Boren Bromide	0.002	0.00	0.001	9.005 12.2 0.12	0.007 7.0 0.2		0.000	<b>0.046 0.13</b>	0.027 <20.0 0.16	9.1
Ziconium 24-D 44-DOY 44-DOY 24-S-TP Deblied Water Leach (mg.L.) Armonia Armonia Armenia BOO Beryllum Boren Bromide Cadmignt	0.082 0.41 0.000	0.00 0.12 <0.006	0.001 0.12 0.003	0.005 12.2 0.12	0.007 7.0 0.2 <0.004		0.000 6.4 0.072 <0.008	Q,046 ≪8 - 0,13 ≪0,002	0.027 <20.0 0.10 <0.006	<0.008
Ziroonkm 24-D 44-DOY 44-DOY 24 5-TP Disblied Weisr Leach (mgL) Ammonia Ammonia Arsenia Boto Benyllum Boron Bromide Cadman Calolum Calolum Chiefe	0.082 0.003	0.09 0.12 <0.008	0,001 0,003	0.005 12.2 0.12	0.007 7.0 0.2 <0.004		0.000 6.4 0.072 <0.008	Q,046 ≪8 - 0,13 ≪0,002	40.00 40.00 40.006	<0.008
Zigonium 24-0 44-00Y 24.5-TP Distilied Water Leach (mgA) Ammorite Ammorite Ammorite Berken BCO Berylaum Boren Bromide Cadrulum Calabum Calabum Chloride Chromium	0.082 0.41 0.000	0.00 0.12 <0.006	0.001 0.12 0.003	9.005 12.2 0.12	0.007 7.0 0.2 <0.004		0.000	Q,046 ≪8 - 0,13 ≪0,002	<0.005	<0.008
Zincenkm 24-0 44-00Y 44-00Y 24 5-TP District Water Leach (mgA) Armonia Armonia Armonia Berken Berken Brownia Brownia Brownia Brownia Brownia Cadolum Chidnia Choel Cryonniam Cobel Cooper	0.082 0.003	0.09 0.12 <0.008	0,001 0,003	0.005 12.2 0.12	0.007 7.0 0.2 <0.004		0,000 0,672 <0,000 0,000 0,000	0,040 <\$ 0,002 19.1 0,000	<0.008	<0.008
Ziroenkm 24-D 44-DOY 44-DOY 24 5-TP Disbled Welsr Leach (mg,L) Ammorita Ammorita Anseris Berlytism BOO Berlytism Boren Bromide Cacimism Calcium Chloride Chromium Cobett	0,082 9,41 0,003 11,0 0,009	40.004 40.004	0.091 0.000 11.0 <0.09	0,005 12.2 0,12 <0,005	40.005 		0.000 6.4 0.072 <0.008	Q,046 ≪8 - 0,13 ≪0,002	40.00 40.00 40.006	<0.008
Ziroonkm 24-D 44-DOY 44-DOY 24-5-TP Disblied Water Leach (mg,L) Ammonia Ammonia Ammonia BOO Benyllare Boren Bromide Cachaium Calolum Chloride Chrymnen Cobet Cocone Coper Coper Coper Coper Coper Coper Coper Coper Coper Coper	0.082 0.41 0.003 11.0 0.005	40.004 40.004	0.091 0.000 11.0 <0.09	0,005 12.2 0,12 <0,005	0.007 7.0 0.2 <0.008 7.0		<0.000 0.072 <0.000 0.000 0.000 0.000	40.002 	40.00 410 410 410 410 410 410 410 410 410 4	<0.008
Ziroenkm 24-D 44-DOY 44-DOY 24-5-TP Disblied Weisr Leach (mgA) Ammorita Ammorita Anseris Berhum BCO Benytium Boron Bromicle Cadmium Calcium Chloride Chromium Cobet Cooper Cooper Cooper Cooper Cooper Cooper Cooper Cooper	0,082 9,41 0,003 11,0 0,009	40.004 40.004	0.091 0.000 11.0 <0.09	0,005 12.2 0,12 <0,005	0.007 7.0 0.2 <0.008		0,000 0,672 <0,000 0,000 0,000	0,040 <\$ 0,002 19.1 0,000	<0.008	<0.008
Zigonium 24-0 44-007 24 5-TP Usblied Water Leach (mgA) Armonia Armonia Armonia Berhan Brone Bernide Cachum Cachum Crioride Cachum Crioride Chornian Cobell Copper C	0.092 0.41 0.003 11.0 0.009 0.002	40.004 40.004 40.004 40.004	0.091 0.000 11.0 <0.08	0,005 122 0,12 <0,005	0.007 7.0 0.2 <0.008 7.0 <0.008			-0.002 -0.002 -0.002 -0.002 -0.002	400 410 410 410 410 410 410 410 410 410	<0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.
Ziroenkm 2.4—D 4.4—COVY 2.4.5—TP Disblied Welsr Leach (mg.L) Ammorida Ammorida Anseris Berlyllum Boron Boron Boron Calcium Cal	0.092 0.41 0.003 11.0 0.009 0.002	40.004 40.004 40.004 40.004	0.091 0.000 11.0 <0.08	0,005 122 0,12 <0,005	0.007 7.0 0.2 <0.008 7.0 <0.008		<0.000 0.072 <0.000 0.000 0.000 0.000	40.002 	40.00 410 410 410 410 410 410 410 410 410 4	<0.008
Ziroenkm 2.4—D 4.4—COVY 2.4.5—TP Disblied Welsr Leach (mg.L) Ammorida Ammorida Anseria Boron Boron Boron Boron Calcium	0.092 0.41 0.000 11.0 0.000 0.47	0.08 <0.005 <0.005 0.004 0.004	0.001 0.000 0.000 11.0 <0.00 0.000	0.005 12.2 0.12 <0.005 8.6 0.005 0.000				-0.002 -0.002 -0.002 -0.002 -0.002	400 410 410 410 410 410 410 410 410 410	<0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.
Zigonkm 24-D 44-DOY 24.5-TP Usblied Water Leach (mgA) Ammoria Ammoria Ammoria Barkum BCO Beryllum Brownice Cadralym Calcium Charles Cooper Cooper Cooper Cooper Cooper Cooper Lead Mangeresum Mangeresum Mangeresum Molydodrum Molydodrum Molydodrum Molydodrum Nolide Nolide Nolide Nolide	0.092 0.41 0.000 11.0 0.000 0.47	0.08 <0.005 <0.005 0.004 0.004	0.001 0.000 0.000 11.0 <0.00 0.000	0.005 12.2 0.12 <0.005 8.6 0.005 0.000				-0.002 -0.002 -0.002 -0.002 -0.002	400 410 410 410 410 410 410 410 410 410	<0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.006 4 <0.
Zigonium 24-0 44-007 24.5-TP 0sbled Water Leach (mgA) Ammoria Ammoria Ammoria Both Brownia Bro	0.092 0.41 0.000 11.0 0.000 0.47	0.08 <0.005 <0.005 0.004 0.004	<0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000	0.006 122 0.12 0.12 0.106 0.007 0.0008	40.008 40.008 40.008 40.008 40.008		<0.0002 <0.0002 <0.0002 <0.0002		40.000 6.70 6.70 6.70 6.70 6.70 6.70 6.70	<0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0
Zigonium 24-0 44-007 24.5-TP 0sbled Water Leach (mgA) Ammonia Ammonia Ammonia BCO Benvillum BCO Benvillum BCO Benvillum Bcon Brontde Codminn Bcon Codminn Colorium Co	0.092 0.41 0.000 11.0 0.000 0.47	0.08 <0.005 <0.005 0.004 0.004	0.001 0.000 0.000 11.0 <0.00 0.000	0.005 12.2 0.12 <0.005 8.6 0.005 0.000				-0.002 -0.002 -0.002 -0.002 -0.002	40.000 6.70 6.70 6.70 6.70 6.70 6.70 6.70	<0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0.006 <0
Ziconium 24-D 24-D 44-DOY 24-5-TP Debled Water Leach (mgA) Ammonia Ammonia Americ Boron Boron Bromide Cadmium Calcium Calcium Calcium Calcium Calcium Calcium Calcium Calcium Choride Chromium Cool Cooper Cryonie Cooper Corenide Paroride Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Lead Iron Iron Lead Iron Iron Lead Iron Iron Lead Iron Iron Iron Iron Iron Iron Iron Iron	0.092 0.000 11.0 0.000 0.002 0.47 <0.008	0.08 <0.005 <0.005 0.004 0.43 <0.005	<0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000	0.006 122 0.12 0.12 0.106 0.007 0.0008	40.008 40.008 40.008 40.008 40.008		<0.0002 <0.0002 <0.0002 <0.0002		40.000 6.70 6.70 6.70 6.70 6.70 6.70 6.70	<0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0
Ziconham 24-D 44-DOY 44-DOY 44-DOY 245-TP Debled Water Leach (mgA) Ammonia Ammonia Americ Boron Bromide Cadmium Cololum  0.092 0.000 11.0 0.000 0.002 0.47 <0.008	0.08 <0.005 <0.005 0.004 0.43 <0.005	<0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000	0.006 122 0.12 0.12 0.106 0.007 0.0008	40.008 40.008 40.008 40.008 40.008		<0.0002 <0.0002 <0.0002 <0.0002		40.000 6.70 6.70 6.70 6.70 6.70 6.70 6.70	<0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.0002 <0.0002	
Zigonium 24-0 24-0 44-007 24-5-TP 0sbled Water Leach (mgA) Ammonia Ammonia Ammonia BCO Berytlum BCO Berytlum BCO Berytlum Coloride Charles Cha	0.092  0.41  0.000  11.0  0.000  0.000  0.000  40.000  <0.000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  0.0000  <0.0000  0.00000  0.00000	0.08  -0.005  -0.005  -0.005  -0.005  -0.005  -0.005  -0.0002	4.12 6.000 11.0 <0.00 40.000 <0.000 40.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.005 1.6 0.0000 0.0000	40.008 40.008 40.008 40.008 40.008		<0.0002 <0.0002 <0.0002 <0.0002		40.000 6.70 6.70 6.70 6.70 6.70 6.70 6.70	<0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0
Ziconham 24-D 44-DOY 44-DOY 44-DOY 245-TP Debled Water Leach (mgA) Ammonia Ammonia Americ Boron Bromide Cadmium Cololum  0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000	
Ziroonkm 24-D 24-D 44-COVY 24-S-TP Debled Waler Leach (mg,L) Ammonia Ammonia Ammonia Ammonia Anseria Boto Beryllum Boron Bromide Cacimium Cololum Colo	0.092  0.41  0.000  11.0  0.000  0.000  0.000  40.000  <0.000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  <0.0000  0.0000  <0.0000  0.00000  0.00000	0.08  -0.005  -0.005  -0.005  -0.005  -0.005  -0.005  -0.0002	4.12 6.000 11.0 <0.00 40.000 <0.000 40.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.005 1.6 0.0000 0.0000	0.007 7.8 0.2 <0.005		<0.0001 <0.0001 <0.0001 <0.0001 <0.0001 <0.0001	Q.044 48 40.002 19.9 9.003 40.003 40.003 40.0001	40.000 A16  40.000	<0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0008 <0.0
Zigonkm 24-0 24-0 44-007 24-5-TP 04-007 24-5-TP Disbled Water Leach (mgA) Ammonia Ammonia Ammonia BCO Benytlum BCO Benytlum BCO Benytlum Catchin Catch	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000
Zigonium 24-0 24-0 44-007 24-5-TP 04-007 24-5-TP Disbled Water Leach (mgA) Ammonia Ammonia Ammonia BCO Benfulum BCO Benfulum BCO Benfulum Catchie Catchie Catc	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000
Zigornkm 2.4—0 4.4—007 4.4—007 2.4.5—TP Usblied Water Leach (mgA.) Ammonia Ammonia Ammonia Bromis Bervillum BCO Bervillum Bcore Bromice Colomber Co	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.008 <0.008 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0
Ziroenkm 2.4—D 4.4—COVY 2.4.5—TP 4.4—COVY 2.4.5—TP Disbled Welsr Leach (mp.L) Ammorida Ammorida Arsenia Berlum BOO Berlum Boron Bromide Caciolum Calolum Firenia Firen	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000
Zigornkm 24-0 24-0 44-007 24-5-TP 04-007 24-5-TP Disbled Water Leach (mgA) Ammonia Ammonia Ammonia Bromis Berhum BCO Bernflum BCO Bernflum Catchinn	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.008 <0.008 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0
Zigonium  24-0  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  44-007  4-0	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.008 <0.008 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0.009 <0
Ziroonkm 24-D 24-D 44-COVY 24-S-TP Usbled Waler Leach (mg.L) Ammonia Ammonia Ammonia Ammonia Ammonia Anseria Boto Beryslam Boto Beryslam Calcium Calci	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000
Ziscentum 24-0 44-007 24-5-TP 44-007 24-5-TP Disbled Weisr Leach (mgA) Ammonia Ammonia Ammonia Asseris Berhum BCO Beryslam Boron Bromicle Cadhum Calolum Calolum Calolum Chloride Chrymnum Cololum Chloride Non Leed Meganeseum Meganeseum Meganeseum Meganeseum Meroury Mohodeman Nicital Nitrale Nitrale Nitrale PCBs Phenole Physiolum Prosphanus Poleseium Selcotum Selcotum Selcotum Selcotum Selcotum Titerbum Titerbum Titerbum Titerbum Titerbum Titerbum Titerbum Zine Zine Zine Zine Zine Zine Zine Zine	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000
Zigonium  24-0  44-007  24-5-TP  04-007  24-5-TP  Disbled Water Leach (mgA) Ammonia Ammonia Ammonia Berhum BOO  Bernflam Boron Bromicle Cachrium Catolum 0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.0001  <0.0001  <0.0001  <0.0001  <0.0001	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000	
Zigorikan 24-0 24-0 24-0 24-0 24-0 24-5-TP Desided Water Leach (mg,L) Adminisum Ammonia Armonia Armonia Boto Beryflum Boron Bromide Cadnium Catolum Firenties Fi	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.000	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000
Zironham  24-D  4,4-DOT  4,4-DOT  4,5-TP  4,5-TP  Cashied Waler Leach prop.L  Services  Brandise  Berylam  Berylam  Berylam  Berylam  Berylam  Caloham  Frontida  Intrie  Pose  Phorote  Berylam  Servan  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Bulk Analyses Implical  Caloham  PCBell  Toturne	0.092	0.08	4.000 4.12 4.000 4.000 4.000 4.0000 4.0000 4.0000	0.005 12.2 0.12 0.12 0.005 0.005 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	40.008 40.008 40.008 40.008 40.0008 40.0008		<0.000	- C.044 - C.052 - C	40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00	<0.09 <0.09 <0.09 <0.09 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000 <0.000

Code	FCS0	FCS0	FCS0	FCSD 124	FCS0 135	FC80	PC80	FC80	FC80
Number Company Name Address	Essa/Taxase 10 Mexicosuga Rd.	Ecos/Torano	120 Essa/Tavano 10 Masianauga Pel.	Ens/Tours	Esca/Torono 10 Marinanga Pal.	Ecos/Torono	Petro-Canada 480 Keer St.	Petro-Camada 2166 Din Mile Rd.	Potro-Canada 160 South Service ML
1	Pert Credit	Pert Credit	Pert Credit	Pert Credit	Port Credit	Pert Credit	Oaln@e 300-400	Mexicologic	1000
Amount (formed) Date (jyjimm/dd)	91/11/14	91/10/04	91/10/04	91/1Q/04	91/09/23	91/10/04	91/08/67 TSL	91/09/09	91/00/16
Laboratory No. Samples for Avg.	Philip Envir.	Philip Envir.	Philip Envir.	Philip Emir.	Philip Envir.	Philip Emir.	186	TRL	Philip Envir.
Reg 309 Acid Leach (mgL) Aldrin & Dioldrin									
Alminum Artiminu							41	<u>41</u>	
Arsenia Bartum	0.000 0.11	0.006 0.36	<0.00±	0.009 0.47	0.0071 0.34	0.006 0.34	<0.004 0.30	400	<0.006
Beretuse Boron Cadmiuse	0.066 0.004	0.007	0,040	0.14	0.047	9,006	<0.006	<0.05	<0.5
Calcium	0.004	6.013	<0.006	<0.006	40.000	400	800 900	49.005	<0.006
Carbeni a-Chlordene									
g-Chlordene Chlorde	<0.06	<0.06	9,006	0,006	<0.004	<0.06	<0.02	<0.08	<0.02
Chromium Cobell Copper							600	<0.01	
Ovenide Diszinos	<0.2	<0.2	6.001	0.001	<0.0002	<0.2	<0.03	<0.08	<0.06
Endrin Fluorides	1.1	0.17	0.2	6.21	A19	0.18	0.12	0.24	010
Heptachior & Hept, Epoxide Iron							<0.1	ده	
Lead Lindane	0.066	<0.06	0.006	0.060	<0.02	<0.06	<0.08	<0.08	<0.06
Magnesium Menganesa							17	16	
Mercury Methoxychior	<0.0002	<0.0002	<0.0002	<0.0008	<0.0002	<0.0002	<0.001	<0.001	<0.001
Methyl Parethigs Molybderum							<0.02	<0.02	
Nickel Nitrate & Nitrite							<0.02		
Nitriotispets Asid							<b>41</b>	<b>40.5</b>	
Nitrie Paratrion							<0.003		
PCBe Phosphorus							<0.1	<0.003 <0.1	
Potessium Selenium	<0.002	<0.002	<0.002	<0.002	0.0037	<0.000	<0.01	<0.01	<0.01
Silicon Silver Socilum	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.06	<0.08	<0.06
Strontum Sulphur							13	20	
Theform Tin									
Titenium Touphene							904	<0.01	
Trihelomethenes Uranium									
Vanedium Zino							<0.08	<0.02	
Ziroonium 2.4-0							<0.2	<0.2	
4,4-007 24.5-TP									
Distilled Water Leach (mg/L) Aluminum						<u> </u>			· · · · · · · · · · · · · · · · · · ·
Ammonia Arsenio Berlum	0.002 0.007	<0.002 <0.1	<0.002	0.008 0.017	<0.002	0.008 0.031	<0.006 <0.033		<0.006 <0.009
BOD Beryflum	<20.0	13.0	8.0		<6.0	13.0	<10	13	
Boron Bromide	0.090	<0.1	014	9.21	0.12	0.16	<0.5		40.5
Cadmium Catoium	<0.006	<0.006	<0.006	<0.006	<0.002	<0.006	<0.005		<0.006
Chloride Chromium	<0.06	<0.001 <0.05	<0.06	<0.06	<0.02	<0.001	<0.02	<0.02	<0.02
Cobest COD									
Copper Cyanide	<0.2	<02	6.003	0,004	<0.0008	0.004	<0.06	<0.05 0.10	<0.06
Pluorides Iron		<1.J	9.46	0.63		<0.06	<0.05	<0.06	<0.05
Lead Magnesium	<0.06	< 0.06	<0.06	<0.06	<0.02				
Manganege Mercury Mohdylers ye	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.001	<0.001
Mokodenura Niokal Nitrate									
Nitrito									
Phenois Phenois	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Phosphota Phosphorus									
Potestum Selenium	<0.002	<0.002	<0.002	0.001	<0.001	<0.001	<0.01	<0.01	<0.01
Silicon Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.06
Strontung									
Suifate Subhyr									
Thefium Thentum									
Vanedure Zno									<b></b>
Ziroonium Bulk Analyses (mg/kg)					<u> </u>				
Berzene Etnyberzene									
PC8s Toluens							<b>!</b>		
TPH TVH					<del> </del>		- 0	1960	
Xvienes	1	1		L	1	L			

Code	COU	PCSD 139 Petro-Cannata hands N.E. & Bear St. Writing SSSS 91/1922 Petrool WISIS-1 <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a href="#">A.6</a> <a< th=""><th>  COD     140     Feire - Coranillo     Colore - Colore     Colore - Col</th><th>  Harris Vest   185   18</th></a<>	COD     140     Feire - Coranillo     Colore - Colore     Colore - Col	Harris Vest   185   18
Company Name	### Beyvier Ave. Common Ave. Common Ave. Common Ave. Common Ave. Common Ave. Common Ave. Common Ave. Common Ave. Common Common Ave. Common Com	### ### ### ### ### ### ### #### ####	788 theopped Ana, M. Nerth Yest 1000 91 (20)94 Philip Endr.  <0.008  <0.008  <0.008  <0.008  <0.008  <0.008	Den Mit & Venterens North & Venterens North Vent St  61,09/27  178,  48,11  48,
Antiquest   Anti	New York   York   1600   1600   1600   1600   170,   170	Wellby 55505 91/1928 Persod Wild 6-1	Nurth Yout   1000   1	
Amount (permiss)   1000   30000   30000   30000   30000   30000   3000			### PHIS ENV.	61,0987 18.
Date trystoweride    91/00/28	18. 49.005 472 43.65 49.005 49.005 49.005 49.005 49.005 49.005	Percol   WOM 5-1   <0.001   5-1   <0.001   5-1   <0.002   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <0.003   5-1   <	C0.005	18
No. Semples for Arg.   Peg 500 Action	<0.5 <0.5 <0.05 <0.05 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <	4.64 - 4.65 - 4.	40.005 13 40.005 40.005 40.005 40.005	411 4126 4
Reg 309 Anist Learning   Implicit   Implic	40.6 40.	<0.001		
Addin a Deletide Abrimatis Antimatis	40.6 40.	4.40 4.00 4.00 4.00 4.00 4.00 4.00 4.00		
April	40.6 40.	4.40 4.00 4.00 4.00 4.00 4.00 4.00 4.00		
Argentic   Co.003	40.6 40.	4.40 4.00 4.00 4.00 4.00 4.00 4.00 4.00		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sentern   <0,003	<0.5 <0.005	4100 1000 1000 1000 1000 1000 1000 1000	40.005 40	
Server	<0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0.008 <0	<0.008 <0.008 <0.008 <0.008 <0.008	<0.008 <p>49.008 49.008 49.008 49.008 49.008</p>	\$355 \$25 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$3
Control		488. 6.02 6.1	<ul> <li>40.00</li> <li>40.00</li> <li>40.00</li> </ul>	
Carbornian   Car	<0.05 0.10	6.00 6.1 6.003	ব্যঞ	
### Chordens #### Chordens ####################################	<0.05 0.10	6.00 6.1 6.003	ব্যঞ	400 400 400 400 400 400 400 400 400 400
### Cherchans Choride Chromium	<0.05 0.10	6.00 6.1 6.003	ব্যঞ	400 400 400 400 400 400 400 400 400 400
Chromition   C0.08   C0.09   C0.09	<0.05 0.10	6.00 6.1 6.003	ব্যঞ	400 400 400 400 400 400 400 400 400 400
Cobest   C0.01   C0.02   C0.	G18	0.003	<0.19	40.05 40.1 40.05
Cremida	Ø19	0.003	<0.19	Q29 <q.1 <q.06< td=""></q.06<></q.1 
Discrimen   Endrith   California   Califor	40.08	448	40.08	<0.1 <0.06
Puorides   0.16   0.22   0.15   0.25   0.1	40.08	448	40.08	<0.1 <0.06
Her/sechor & Heat, Excelde   CQ.09				2
Leed   <0.06   <0.08   <0.09   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00   <0.00				2
Lindene   31   24	<0.001	<0.001	<0.004	22
Mercury	<0.001	<0.001	<0.001	
Mercury	GIII)			<0.001
Methyl Parathion				
Mohodenum <0.02 <0.02				
Note   0.06   <0.02				≪0.6
Niralp <0.5 <0.6				
Nitriotiscoto Add				<0.1
Person			<del> </del>	<0.001
PC06 <0,000 <0,000 <0,000				<01
Potentiare 10 10	<0.01	<0.01	<0.01	<0.01
Selentura <0.01 <0.01 <0.01 <0.01				
\$80000 <0,05 <0,05 <0,000 <0,000 <0,005	<0.06	<0.01	<0.08	<0.06 <0.6
Sodum 20 <0.5			İ	2.0
Strontum 2.1 2.7 Sulphur				
Theffun				
Tin 0.06 0.07				6.02
Tousphene				
Trihalomethanes <0.02				<0.03
Venedum <0.02 <0.02				0.10
Zre 1.9 0.28 Zreonium <0.2 <0.2				<02
24-0 4.4-007			<del>                                     </del>	
4.4-007 2.4.5-TP				
Distilled Water Leach (mg/L)				
Ahminum Ammonia				
Arearitz <0.006 <0.006 0.001 <0.008 <0.008	<0.005 0.16		<0.006	<0.006 <0.033
Bartum   0.20   0.18   0.08   <0.09   0.38     BCO   <10   0.48   <10.0   <10	<10		<10.0	<10
Bertium			<0.5	<0.5
Boron <0.5 <0.5 CUS	<0.5			
Bromide	<0.006		<0.006	<0.006
Cultivaria Anni Anni Anni Anni 7,7	12		· · ·	<0.5
Chloride	<0.05		<0.05	<0.02
Cobell	L	<u> </u>	t	
Cooper				<0.06
Cymride <0.05 <0.06 <0.0	<0.05		<0.06	90
Plurides 9.12 9.16 STD Water				
	<0.06		<0.06	<0.08
Magnesium				
Manganese	<0.001		<0.001	<0.001
Molybdenum	<del></del>			
Niskel Nitrale				<del> </del>
Nitro	<del></del>		<del></del>	
PCBs <0.001 <0.001 <0.001 <0.001 <0.001	<0.001		<0.001	<0.001
Planel Lyange	<del> </del>	<u> </u>		
Phosphorus Phosphorus				
Potestim	<0.01		<0.01	<0.01
Belefinan <0.01 <0.00 <0.00 September 5 Se				
Silver <0.06 <0.06 0.001 0.001	<0.08	<del> </del>	<0.08	<0.06
Sodum	<b></b>			
Strontum Bullints				+
Subrur		t		
Thefun Titerium				
Venedium	ļ. ———	<del> </del>		
Zno	†			
Zirconium Bulk Analyses (mg/kg)				1
Bergene	<del>                                     </del>	<u> </u>		
Etylograms PC86				
Totuene	<del> </del>	<del> </del>	+	
TPH 0.6 0.3				9
XVenes				

on the 2001 and the door by I stalled unity leach but done by Philip Endonmarks.

Compare   Personal										- VANA
Process   Proc	Code	FCSD 142	FCSD 143	PCS0 144	FCSD 146	PCS0 147	148	FC30	PCS0 164	FCSD 188
Trees	Company Name									Pobe-Canada 2046 Finah St. W.
The state of the column   100	A	Toronto	z/W Eginten Ave. Toronto						Egingate Dr., Ethib.	Elebirolm
	Amount (tenned)	1800	3000				6000		1800	1900
The content of the	Date (yy/mm/dd)									Philip Envir.
March   Closes   March   Mar	No. Samples for Avg.		, , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,					
April	Reg 300 Acid Leach (mgL)									
Property   Color   C	Aluminum	<0.1								
Part	Antimone	c0.008	0.000	<0.04	0.004	6,004	0,000	<b>0.100</b>	<0.05	0.014
Total	Berum		- 40	4.7	240	1.00	460	1.66	1.30	0.014 0.49
Contract   Contract		<0.00	1.7	0.04	1.0	23	<b>41</b>	<0.01	0.11	<0.1
- Control   Cont	Cadmium I	8	4,004	0.005	<b>⊲ra</b> a			400	<0.006	<0.006
- Consistent	Carbani									
Charlest   Charlest	e-Chlordene									
Color   Colo	Chloride									
Cocces	Chromium	<b>&lt;0.01</b>	<40.00			944			- 44.5	
Department   150   151	Copper	<0.02		-00	e09	di.	A)	<0.04	<0.05	<b>40.2</b>
Control   Cont	Discinos									
Section   Sect	Endrin	0.20	<1.0	64	<1.0	ব্য	<1.0	84	<0.6	বা
Letter   Cold	Heptschior & Hept, Eposide									
Limitary   1	lron	<0.05	0.06	0.006	0.23	<0.06	<0.05	013	<0.06	<0.06
Married   Marr	Lindene									
Married   Marr	Manganese	14 22								
March   Propriete   Color	Meroury	<0.001	<0.0002	<0.001	9,0011	<0.0008	9,0000	<0.001	<0.001	0.0012
Miss   Miss	Motivi Perattion									
Miss   1859	Molyodenum Nickel	<0.03								
Principation   Acid   Col.	Nitrate & Nitrite									
1875										
Property   Color   C	Nitrite	<0.5							<1	
Principles   GB	PCBs	<0.000								
Berein   GAR	Phosphorus	<0.1 <6								
Section   Color   Co	Selenium	<0.01	<0.002	<0.01	<0.002	<0.002	<0.000	<0.0	<0.01	<0.002
Scotter   CAS   Street   Str	Silver	<0.06	0.016	<0.01	0.037	0,021	<0.01	<0.03	<0.06	<0.01
Designary   Desi	Sodium	<0.6								
The contracts of the contract	Sulphur									
Timeler   Cold										
Tritestementaments	Titentum	<0.01								
Unright										
2009   2009	Uranium	£0.00							<del> </del>	
24-0 (4-107)  Dealbord Writer Leach (mpd.)  Armonolis (10) (20) (2009) (	Zine	<0.02								
Deside West Leach (mgL)	Ziroonium 24-D	<0.2						<u> </u>		
Distribution   American   Ameri	4.4-DOT									
American   American	Distilled Water Leach (mg/L)									
Arrente	Aluminum						1.04	1.13	200	
BOTO   CAL	Arsenia	<0.006	<0.002	<0.01	0.006	<0.002	<0.002	0.003	<0.06	<0.002
Beryland		<10	<0.1 <5.0	<0.01 <6.0	0.13	<0.1	<u> </u>	- 0.09		<0.1
Permiss	Berythum				-04		-01		900	<0.1
Cestratum	Bromide									
Criterists	Cadmium	<0.006	<0.00€	<0.002	<0.006	<0.006	<0.006	<0.005	<0.006	<0.006
Cromman   C0.02   C0.05   C0	Chloride	0.73	14.8		20.0	49	u	94	<1.0	14.9
Copper   C	Chromium	<0.02	<0.05	<0.01	<0.06	<0.05	<0.05	<0.02	<0.05	<0.06
Cornide   CA.06   CQ2   CQ.01   CQ2   CQ.2   CQ.2   CQ.2   CQ.2   CQ.3   CQ.3   CQ.3   CQ.4   CQ.5	<b>800</b>									
Puroficies   0,10   <1,9   0,2   <1,9   <1,9   <1,9   <1,9   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1,0   <1		<0.06	<0.2	<0.01	<0.2	<b>40.2</b>	<0.2	<0.01	<0.06	<0.2
Lead   C0.05   C0.05   C0.002   C0.003   C0.00	Fluorides							0.4	<0.5	বাঞ
Morphelian	Lead	<0.06	<0.06	<0.002	<0.08	<0.08	<0.06	<0.03	<0.06	<0.06
Mercury   <0,001   <0,0002   <0,0001   <0,0002   <0,0002   <0,0002   <0,0002   <0,0002   <0,0001   <0,0002   <0,0002   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0002   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,0001   <0,00	Megnesium								<u> </u>	<u> </u>
Noted   Noted	Mergury	<0.001	<0.0002	<0.001	0.0000	<0.0002	<0.0002	<0.001	<0.001	<0.0002
Nitrate	Molyodenum Nickel					<u> </u>				
PCSB   Primote   CQ,001   CQ	Mirele								7	<b></b>
Phenois   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001   <0,001	PCBs									
Phosphoris   Phosphoris   Protection   Phosphoris   Protection   Phosphoris   Protection   Phosphoris   Protection   Phosphoris   Phosphoris   Protection   Phosphoris   Pho	Phenois	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Princephonus	Phosphala									
Selection   COLOR	Phosphorus					<u> </u>				<u> </u>
Sever   CO.05   CO.01   CO.01   CO.01   CO.01   CO.02   CO.02   CO.03   CO.0	Selenium	<0.01	<0.002	<0.01	<0.002	<0.008	<0.002	<0.01	<0.01	<0.002
Socium   Stortum   Stort	Såver	<0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.06	<0.04
Suffet	Sodium								<del> </del>	ļ
Suphur Thefur Therium Vanodum Zeg	Sulfate									
Therham Vanodum Zng Zng	Subhur					<del></del>	<del> </del>	<u> </u>		
Zing Trooping	Titerium								1	
Zipponium										
But Analysis Insulati	Zroonium									
Bulk Analyses (mg/kg) Bengane	Berzene					<u> </u>		L		
Ethebergene PCBe	Ethytoenzene					<del>                                     </del>			<del> </del>	<b></b>
Toluene	Toluene									
TP4 111	TPH	111	<b> </b>	<b> </b>					<del> </del>	
Xians										

(h) Reg. 300 leach test done by Paracel, duffled water leach done by Philip environmental.

Code	FC	20	POSO	Kesto	FCSD	PCSO	FCSO	FCSD	FCSO	FCED
Code Number	FCI 16 Shell Con	e estad and	164 Shell Canada Ltd.	165 Shell Canada Ltd.	106 Shell Canada LML	167 Shell Canada Ltd.	100	100 Shal Canada Ltd.	170 Shell Canada LM.	171 Shell Canada Ltd.
Company Name Address	114514		Martham & Eleamore Md.	Aircref Bal & Strates	600 lesingtes Ave.	67 Careers St. N.	Airport Pal.	MA 1	Avenue Ad.	40 Queen St.
Amount (tenned)	Area 30		Somborough 1000	Marinomega 300	Statute etc.	Otracto-Mo 1800	Caledon 900		Teresto 800	Brangton 100
Date (yy/mm/dd)	91/0	9/11	01/00/20	91/09/30	91/09/26	91/10/02 M3	61/10/02 TEL	Personal	00/01/67	91/01/21
Laboratory No. Samples for Avg.	Pine Analysis 2 (AVG)	Primp ERMY.	<u> </u>	Philip Envir.	Philip Envir.					
Reg 300 Acid Leach (mg/L)							•			
Aldrin & Dieldrin Aluminum							<b>40</b> 1		<608 <608	41
Artimony Arsenia	0,0026		<0.01	0.000	8,004	8,006 8,496	440	- 441 141	<0.05	<0.06
Bendius	<u> </u>					l l	<b>48.00</b>		<b>V</b>	<0.00
Boron Cadmium	0.0013 <0.006		<b>0.05</b> ≪ <b>0.004</b>	72 8004	4.10 6.004	0.040	<0.5	0.13 0.000	<0.6	<0.00
Calolum Carbayi							2100		1900	1200
e-Chlordene										
g-Chloride Chloride				8.04	444	6.02	<0.00 t	<0.01	<0.02	<0.02
Coper Coper			<0.01				49.88 49.88		<0.02	
Copper Cyenide	<0.01		<0.02	40.2	<0.2		<0.06	<0.01	<0.01	<9.06
Diszinos Endris										
Fluorides Heptschior & Hept. Eposide	0.42		Q1	<1. <b>2</b>	<1.9	<u>a1</u>	0.12	- 44	612	0.18
lron	<0.06		<0.006	0.00	1/40	<0.06	<0.1 <0.05	0.026	<0.05 <0.05	<0.06 <0.06
Leed Undere									2	
Mengeneee Mengeneee						<0.00008	22 4.1 <0.001	<0.001	<0.001	15 6.4 <0.001
Meroury Methoxychilor	<0.0006		<0.001	0.0000	6.0008					
Methyl Parethios Molyodenum							<0.02		0.02	<0.02
Nickel Nitrate & Nitrite	1.72		9.4				<0.08		<0.08	<0.02
Nitrate Nitrate Nitrate Add						<0.2	40.5		<0.5	2.2
Nitrita	<0.05					<0.2	u		<0.5	<0.5
Persition PCBs	<0.0001		<0.001			<0.00002	<0.003		<0.003	<0.003 <0.06
Phosphorus Potassium							4		<0.01	
Selentum Silicon			<0.1	<0.003	0.006	<0.001	<0.01	<0.01		
Säver Bodium			<0.01	0.004	0.00	<0.008	<0.06 <0.6	<0.01	<0.08	<0.06 11 1.7
Storium Bublur							2.9		21	1.7
Thellium									0.00	
Tin Thenium							9,001		<0.01	<0.01
Toxephene Tribelomethenes										
Uranium Vanedium			<0.01				<0.02		<0.08	<0.02
Zino Ziroonium						0.16	Q14 <q2< td=""><td></td><td>0.1 0.4</td><td>0.30 &lt;0.2</td></q2<>		0.1 0.4	0.30 <0.2
24-0						-				
4.4-DOT 2.4.5-TP										
Distilled Water Leach (mg/L) Aluminum	<u> </u>	<u> </u>		ļ		ļ		ļ	<u> </u>	ļ
Ammonia Arsenio		0.001	0.001	0.001	0.004	<0.002	0.015	<0.01	0.013	9,004
Bartum BCO		<01 1.8	<0.1 <4.0	6.0	0.14 0.866	<5.0	<10	0.00	<0.1	<0.1
Benflum		01		9,5			<b>40.5</b>	0.06	4.0	<0.1
Boron Bromide			<0.006	<0.006	<0.006	<0.006	<0.006	<0.002	<0.006	<0.006
Cadmium Calcium	<u> </u>	<0.006								
Chloride Chromium	<u> </u>	<0.06	14.9	<0.05	<0.05	<0.06	<0.02	<0.01	<0.06	<0.05
Cobat										<del> </del>
Copper Cyrenide	<del> </del>	0.001	<0.2	<0.2	<0.2	<0.2	<0.01	<0.02	<0.2	<0.2
Fluorides	<b></b>	0.127	<1.9	<1.9	ব্	4.78	0.19	0.9	<1.9	<1.0
Iron Lead	<b></b>	<0.06	9.01	<0.06	<0.06	<0.06	<0.05	0.002	<0.06	<0.05
Megnesium Manganess Maroury						8,0006	<0.001	<0.001	<0.0002	<0.0002
Meroury Molybdenum		0.0007	<0.000	0.0001	<0.0008	1 200		~~~~	10000	
Nickel Nitrate					<del> </del>	<u> </u>				
Nitrite PCBs				<0.001	<b></b>					<del></del>
Phenols		<0.001	<0.001	<0.001 <0.001	<0.001	0.001	<0.001	<0.002	<0.001	<0.001
Phenol (retest/) Phosphale						<del> </del>			1	
Priosphorus Potessium									<b> </b>	1
Selentum Billiogn		<0.002	<0.002	<0.002	0.004	1	<0.01	<0.01	<0.002	<0.002
Silver Sodium		<0.01	<0.01	0.001	<0.01	<0.01	<0.06	<0.01	<0.01	<0.01
Strontium										1
Sulphyr		<b> </b>					-		+	<del>                                     </del>
Theftum Titerium				<del> </del>	<del>                                     </del>		<b> </b>		<b> </b>	
Venedum Zno				<u> </u>	<u> </u>	<del></del>				
Zirconium Bulk Analyses (mg/kg)						1	+		<del>                                     </del>	+
Benzene	<b> </b>	<del> </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>	<u> </u>		<b></b>
Ethybergene PCBs			ļ		<del> </del>	<del></del>	T	<del> </del>		
Toluene TPH									ļ	
TVH Xylenes	<u> </u>		<1	<del>                                     </del>	<u> </u>	<u> </u>	91	<u> </u>		176

Reg 309 leach test done by TSL, defiled water leach done by Philip Environmental.

<sup>(4)</sup> Reg. 300 leash test done by Barringer, distilled water leash done by Philip Environmental.

Address   Sept Config.   Sept Config	Code	1 1000				100	, a .	100	- A 9 1	40.00	FCSD
The column   Column	Code Number	PC80 173	174	176	FC90 176	FC80 177	1	2	162	i 163	196 196
	Company Name		Shell Canada Ltd.							2002 Western Rd.	6656 Harthwest Cr.
Column   C			Catrolla	Toronto	Terente	- Belleville	Toronto	Toronto	Wester	Toronto	Medeerige
The content		4000					<b>68</b>	1009			
The part of the	Laboratory		Entach			TRL	Philip Envir.	Philip Emir.			
APPL   Color	No. Samples for Avg.										
March   Marc	Reg 300 Acid Leash (mg/L)								i	1	
Martin	Alarm & Dreigner	·				4				<0.1	
Table	Antimone				- 4 4 4		484	A 766	8.00	<0.004	0,0016
Second   S	Arrento Berlum				0.17	4.30		- 4	0.241	4.00	1.3
Color	Beryllum					<0.006					10
Color	Cadmium	<0.005	0.01	<0.006		<0.006	<0.006	<0.00	0.016		0.11
Corporation   Corporation	Calcium									1799	
Crosses											
Company	q-Chlordene										
Control   Cont		<0.06	<0.05	<9.05	<0.2	444	<444	<0.45	<0.01		9.04
Coronin         SEM         SE	Cobelt					0.01				0.02	
Control   Color   Co		<0.06	<0.05	<0.1	<0.06	<0.06	<0.2	40.2	<0.003	<0.06	<0.1
Professor   Color	Discinos										
	Fluorides	<0.5	<0.5	<0.1	0.36	0.34	<1.0	ব্য	0.2	<0.6	ব
Table   Column   Co											
Linear   L	Leed	<0.06	0.00	120	<0.06	<0.05	400	<0.04	<0.06	<0.06	<0.00
March   Marc	Lindene					44					
Color	Megness/R Mengeness	<u> </u>				2.7					
Metal Protects   Meta	Mercury	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0002	<0.0008	0.00020	<0.001	<0.001
Mine   Mine	Metryl Peratrion	<u> </u>									
Second 1985	Motybdenum					<0.08				<0.02	
The column   Column	Nitrate & Nitrite	l									
1985	Nitrate	44	1.60	<0.1		<0.5	<del>-</del>		<0.9	<0.5	
Per Per Per Per Per Per Per Per Per Per	Nitrito	<1	ব	<b>49.1</b>		<b>44</b>			<0.2	<0.4	<0.2
Procedure	Paratrion			<0.000		<0.00a			<0.00000	<0.002	0,0006
September   Californ	Phosphorus			78000		<0.1				<0.1	
Minor	Potessium	<0.00	-0.CH	<00M	<0.04	<6	<0.000	<0.000	<0.004	<0.01	0.001
Section   Color   Co	Silicon	1									
Procedure	Silver	<0.05	<0.01	<b>V</b>	<0.06	<0.06	0.000	0.007	<0.006		<0.02
March	Strontum	<del> </del>				24				29	
The content of the co	Sulphur										
Trestorment		<u> </u>									
Tritterorderates	Thenium					<0.01				0.01	
United   U		<del> </del>									
Aproximation   April	Uranium					0.04				<0.02	
According	Zinc	t				<0.02				<0.02	
A-LOT   A-COT    Ziroonkim	<del> </del>				<0.2				<u>&lt;02</u>		
Desident region   Personal   Pe	4.4-DOT										
Abrilland   12   13   13   10   10   10   10   10   10	2.4.5-TP										
Arrent	Aluminum	l									
Berlan   Cal   C		1.34		~0.00e	<b>40.008</b>	e0 006		9,000	0.006	<0.002	0.001
SCO   S.12   CT   CT   CT   CT   CT   CT   CT   C	Barium		0.02	<9.1	0.17	0.06	<0.1	<0.1	<0.1	<0.1	0.07
Secret   Cab   C	Bendium			3.39	<10	<10		148			<6.0
Cateman   Cate	Boron	<6.0	0.13	<0.1	<0.6	401	41	49.1	<0.1	<0.1	0.5
Calcium Christie Chri		<0.006	<0.006	<0.006	<0.006	<0.006	<0.008	<0.005	<0.008	<0.006	0.002
Coperation   Cop	Calcium										
Color   Colo	Chromism	<0.05	<0.06	<0.08	<0.02	<0.02	<0.06	<0.05	<0.06	<0.06	9,9 <0.06
Copper   C	Cobat										
Cyanida   C.05   C.05   C.05   C.02   C.02   C.03   C.02   C.03		<del> </del>	<del> </del>	<del> </del>	<del>                                     </del>		<u> </u>				
First   Col.	Cyaride	<0.05	<0.06	<0.2	<0.08	<0.06	<0.2			<02	
Lead   CAD9		<0.5									
Mercy	Leed	<0.06	<0.06	<0.06	<0.06	<0.05	<0.06	<0.05	<0.06	<0.06	0.00
Mercury   <0.001   <0.001   <0.002   <0.001   <0.002   <0.001   <0.002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0002   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <0.0001   <	Mangeness	<u>                                     </u>			L						
Note	Mercury	<0.001	<0.001	<0.0003	<9.001	<0.001	<0.0002	<0.0008	<0.0002	<0.0002	0.0002
New   New	Motypgenum Nickel	<del> </del>	<del> </del>	<u> </u>	<b>!</b>						
Princip	Nitrate		ļ						$\vdash = =$		
Phosphore   Phos	PCSs	<del> </del>	<u> </u>	<u> </u>	L						
Prosphese   Pros	Phenois	<0.001	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Pricesoral		<del> </del>		<u> </u>	t		<u> </u>	<u> </u>			
Selection   <0,01   <0.01   <0.008   <0,001   <0.001   <0.008   <0.001   <0.008   <0.002   <0.002   <0.002   <0.002   <0.002   <0.002   <0.002   <0.002   <0.003   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001   <0.001	Phosphorus	-					ļ				
Select	Selenturg	<0.01	<0.01	<0.002	<0.01	<0.01	<0.008	<0.002	<0.008	<0.002	<0.002
Sodium   S	Silicon								<0.01	<0.01	<0.01
Strontum   Strontum	Sodium										
Submit   S		<del> </del>	<del></del>	<del> </del>	<del> </del>		<del>                                     </del>		<del>                                     </del>	<del> </del>	
Thereform	Sulphur	I									
Venedam   Ziro	Theffun		<del> </del>	<del> </del>	<del>                                     </del>			<del></del>	<del>                                     </del>	<del></del>	
Ziro   Ziro   Zironum	Vanedium										
Bulk Analyses (mg/ng)   9,5	Zno .	<del>                                     </del>	<b></b>		<b>+</b>				<del> </del>	<del></del>	
Bergere   Que	Bulk Analyses (mg/kg)	1	1	1	1				T T		
PCSs	Benzene	<del> </del>	<del> </del>	ļ	<del> </del>		<del> </del>	<del> </del>	<del> </del>		
TPH 19 19 1970 49 17H		<del> </del>	<del> </del>	<del>                                     </del>	<b>1</b>		1				
TVH 10 0.5	PC8e										
XManes	PC8s Toluene		<u> </u>					ļ	1300		
	PCSs Totuene TPH TVH					10			1370	44	I

<sup>(</sup>i) Reg 300 leach test done by TBL, defilled water leach done by Philip Einfronmental.
(ii) Reg. 300 leach test done by Sentinger, destilled water leach done by Philip Einfronmental.
(iii) Reg. 300 leach test done by Einfrol, destilled water leach done by Philip Einfronmental.

<sup>(</sup>vil) Reg. 309 leach test done by ACE Technology, defiled water leach done by Philip Environmental, (vil) Reg. 309 leach test done by Philip Environmental, detiled water leach done by Philip Environmental.

			(e.g.	POSO I	FCSD	FC3	5	FC80	100	7(30) 198
Code Number	PCSD 100	PCSD 190	PC80	PG80 102	FCSD 193 Casifire Products	Capital City		12 CIBC	Conducto Corp.	G & M Auto Service
Company Name	Canadian Tire 9626 Yenge St.	Smadler Tro Pobeless SEET Kiping Are.	Canadian The Sello Fairview St.	Canadian Tire	112 Dans Ava.	35 Peren	are Ava.	S70 Queen St.	Yongo & 16th St.	3143 Dardorth Ave. Toronto
Address	Pintenend Hill	Pandalo	Bullegian	Ocaberough 1300	Etubicolos 400	- Quebe		Terente 180	Platement HEI	100
Amount (formed)	900 91/10/08	900 98/05/18	2000 98/05/19	1300	91/09/16	91/00	YIS	91/09/23	91/09/01 Philip Envir.	91/11/14 Philip Envir.
Date (yy)trun/dd) Luboratory	TEL (AVE)	Philip Crist.	Philip Envir.			Emirectean Speed	Philip Error.	M	Fied Dive.	ring Circs.
No. Samples for Avg. Reg 300 Asid Leash (mg/L)					ļ					
Aldrin & Dieldrin										
Aluminum Animony				48	0,000	8,000		9,006	<0.00	0,000
Areania Berken	<0.006	40 U(r)	0.004 1.46	0.7713		0.35		0.76	0	0.82
Ber/Bat			<b>c01</b>	40		4000		9,007	0.30	1.2 <0.006
Boren Cadmiure		6,0013	<0.1 <0.005	A 6044	0,013	<b>6</b>			9,084	
Calcium Carbayi										
aChiordene										
g-Chloride Chloride	0.00	<0.06	<0.06	0,0008	. 0.30	400		<0.01	<4.01	<0.05
Chromium Cobell	0.02									
Copper Cyenide	<0.06	<1.0	<0.5	41	41	<0.004		<0.000	<0.001	0.25
Dispinos									_ 4	ব্য
Endrin Fluorides	0.31	<1.8	বাঞ	<14	41	<u> </u>		- 42		
Heptschior & Hept, Engelde Iron					<0.00	<0.01		<0.08	0.07	<0.06
Lead Lindane	0.005	<0.08	<0.0%	6.074						
Megnestum										<0.0002
Mengeneee Meroury	<0.001	<0.001	<0.0008	<0.001	<0.0004	<0.0004		<0.00004	<0.00006	-400.00
Methoxychlor Methyl Parethion										
Molybdenum										
Nickel Nitrate & Nitrite		<10		<10		0.16		49		
Nitrate Nitrioticosto Apid					<0.00	0.007		<0.2		
Nittle Perettion		<1.0		<10				<0.00008		
PC8s		<0.003		<0.003	<0.0007			<0.00AA		
Phosphorus Potesturn					0.0006	0.0126		<0.001	<0.001	<0.002
Selenium Silicon	<0.01	<0.01	<0.002	<0.01				<0.006	<0.005	0.025
Silver	<0.05	<0.06	<0.01	<0.06	0.01	0.04	<u> </u>			
Sodum Storium								<del> </del>		
Sulphur Thellure	<del></del>									
T)n										
Toxonene Toxonene							<del>                                     </del>	<del> </del>		
Trihelomethenes Uranium	<u> </u>									
Venedium Zno	<del></del>									
Ziroonkim				<u> </u>						
2.4-0 4.4-007							<u> </u>	<u> </u>		
2.4.5-TP Distilled Water Leach (mg.L)							1	T	0.04	
Aluminum Ammonia	<del> </del>	1.15	<0.06					0000		0.002
Americ	< 9.006	<0.002	<0.002	0.00s ≪0.1	0,001	<del> </del>	<0.002	0.004	0.06	<0.1
Bartum BCO	<10						11.1	47	<0.0006	<u> </u>
Beryllum Boron	<0.6	<0.1	<01	<0.1	02		0.1	0.044	0.222	- 0.3
Bromide	<0.006	<0.006	<0.006	<0.008	0.002		0.001	<0.006	<0.005	<0.006
Cadmium Calolum					4.86		144	1	2.4	39.7
Chloride Chromium	<0.02	<0.06	<0.06	<0.05	<0.06		<0.06	0.01	<0.01 <0.05	<0.06
Cobalt		-			<del></del>					
Copper			<0.2	<0.2	<62		<0.2	<0.000	<0.001	0.21
Cyanide Fluorides	<0.06	<0.2	বার	<u> </u>	ती		<1.0	0.13	0.44	) I
Iron Leed	<0.05	<0.06	<0.06	200	<0.06		<0.08	<0.06	<0.05 7.8:	<0.08
Megnestunt		<del>                                     </del>					<u> </u>		0.0	1
Mengenees Mercury	<0.001	0.000	<0.0002	<0,000	≪0.0002		<0,0002	0.000	<0.2	<0.0002
Molybdenum Nick el							1		<0.05	1
Nitrate	<b></b>					<del> </del>		1		
Nivite PCSs				9.004	<0.001	Ţ <u></u>	<0.001	<0.001	0.002	<0.001
Phenois Phenoi (retast/)	<0.001	<0.001	<0.004	<u> </u>						<del> </del>
Phosphale				_		<del></del>				
Phosphorus Potessium					<0.008		<0.008	0.00	2 <0.001	<0.002
Selentum Selecon	<0.01	<0.003	<0.008	<0.008			<0.01	<0.006	<0.006	
Silver	<0.06	<0.01	<0.01	<0.01	0.001	4	34.5		4	
Sodum Strontum		<b> </b>		<del>                                     </del>			+		0.30	<u> </u>
Suffete			1				1	T		
	1				+				0.03	4
Suppur Theilum		<b></b>							<0.006	
Thelium Yhrelum Vanedum						+				
Thelium Thenium Vanedium Zino										
Theilum Thinken Vanedhille Zine Zineonium Bulk Analyses (mg/kg)										
Theflum Titerlum Variedhan Zino Zinoolium Bulk Analyses (mg/kg) Bersone Ethybersone										
Theilum Therhum Variadum Zing Zing Zing Rock Analyses (mg/kg) Bersone Etwicevane POSs										
Theflum Titerlum Variedhan Zino Zinoolium Bulk Analyses (mg/kg) Bersone Ethybersone										

(i) Reg. 309 basch test done by Laidine Environmental, dielled weter leach done by Philip Environmental. Nel Reg. 300 basch test done by Bertriper, dielled weter leach done by Philip Environmental. Nel Reg. 200 basch test dens by Clayton Environmental, dielled weter leach done by Philip Environmental.

Carpany Name   Claridate Carredia   Great Affectio & Peorito Yes   Internet Leading   J. Case   J. Case   Leading Robots   LUSO	CSD 209 CPP A 500 bide Rd. reputeren 60 CPP 104710 bc Envir. 2.11 8.000
Address	A 9th Side Ftd.  98  98  700/10  98  98  98  98  98  98  98  98  98  9
Amount (burned)   40 to 60   400   300   48   500   1000   100	
Amount (surroup)	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)
Date (pylmonyloid)   91/00/25   91/10/25	2002 0.43 3.1 9.006
Laboratory   Philip Croir   Philip	0.49 3.1 0.000
Reg 309 Anid Leasth (migs.L.)   Asked A. Distable   Abstrace	3.1 0.005
Address	3.1 0.005
Abstraction	3.1 0.005
Arthresis	3.1 0.005
Berriform   G.2   1.2   6.1   CAL   G.6   G.001   G.12   CALCON	3.1 0.005
Beroffert   G.2   1.2   6.1   GA   6.00   6.10   6.12   6.10   6.12   6.10   6.12   6.10	3.1
Berren   0.3   1.5   40.005	0.04
Carbany   Carbany   Carbony   Carb	0.04
Carbonyl   Carbonyl	
G-Chiprolene   Gall	
Critorian   Capit	
Chromism   Qub   Chub	
Copper   Copper   Col.2   Co	c0.2
Cyeride   Cd.2	<0.2
Enciries	
Professor	
Heatenhor & Heat Execute	4.04
From	
Undere Magnesium	0.04
Megnesium	
Mercury	0.0002
Methospohier	
Methyl Parathion	
Mohit Mokel	
Mitate & Nitrite	
Nitratio	
Notice of Add	
Pention	
Phosphorus <0.09	
Polesture	
Selection 0,006 <0,002 <0,002 <0,002 <0,002 <0,000 <0,000	0.001
\$ 0.021 0.004 0.016 < 0.001 0.001 < 0.001 < 0.001 < 0.001	0.024
300m	
Stonium	
Buchus Thelian Thelian	
Te	
Thenken	
Temphrane Transprovenerses	
Uranium	
Venedure Zee	
Zrocrius	
24-0	
4.4-007 2.45-TP	
Distilled Within Lench (mg.L.)	
Ammun co.	<del></del>
Arrente 0.003 <0.002 <0.002 <0.002 <0.002 0.000	c0.002
Berlum 0.01 <0.1 <0.1 <0.1 <0.1 0.12 <0.1	0.10
800 <60 <50 <60 50 50 50 50 50 50 50 50 50 50 50 50 50	6.06
Brown 8.3 0.1 <0.1 <0.1 <0.1 1.1 0.13	<0.1
Bromide	0.003
Captan	
Chloride <0.00 18.8 34.8 8.8 8.8 4.9 10.8	0.00
Chromium 0.03 <0.05 <0.06 <0.06 <0.06 <0.06 <0.05	0.02
Cobst COO	
Copper	
Operation         0.010         <0.2         <0.2         <0.2         <0.2         0.07         <0.2           Paper ridge         0.722         <1.9	<0.2 <1.9
ron	
Lead 0.01 <0.06 <0.06 <0.06 <0.06 0.02 <0.09	<0.06
Magnesser Manageres Manage	
Mercury <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <	0.0002
Mohybdarum Notad	
Nitro	
Nrite PC66	
PC08	CQ.001
Phanol Privated	
Phosphele	
Phosphona Prosphona	
Selentura 0.000 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	<0.002
	<0.01
Softer 0.00 com com com com com	
Storium	
Surrey	
Budylar Theliam Thelia	
Tigentum	
Vanedum	
Zno Znonium	
Bulk Analyses (mg/kg)	
Bergene	
Ethourane Prose	
Takena	
Tolvene	
Touring TPH TH 1500	

<sup>(</sup>d) Reg. 300 leash test done by A & L Canada, defined water leash done by Philip Environmental

				FORD	10.00	70.00	
Code	PCSD 213	PC60 216	216				
Company Name	theffield Automotive Service	Burry's Gas Bar	Tyundaga Golf Course 1265 Tyundaga Park Dr.		-		-
Address	4845 Cld Huy 6	Waterdoon	Burington				Date Parks
Amount (tonnes)	280	300	140			1	
Date (yy/mm/dd)	62/04/08	91/07/26	91/11/10 Philip Envir.				
Laboratory No. Samples for Avg.	Philip Envir.	no enalylosi	7.440.43				
Reg 300 Acid Leach (mg/L)		-					
Aldrin & Dieldrin				127			14
Antimone			6,006	0.33		0.006	- 4
Arsenia Berlem	0,006 0,79		6.36	144		0.01	16
			0.2	18	•	0.4	
Cadmium	1.0 V9.008		0.010	0.10		0.007	
Calolum				2400		1902	1
Cerberyl e-Chlordene						9	
e-Chlordene							
Chloride Chromium	<0.06		144	6.30			10
Cobelt				93	- 8	0.006	16
Copper	<0.2		40.2	39		0.009	
Distings			ļ.————————————————————————————————————		0		
Endrie Fluorides	<1.9		<12	150			
Heptachter & Hept Econids Iron				14		0.21	16
Lend	0.00		<0.05	225		- 00	11
Lindane Megnesium				4	13	20.2	16
Mengenese	<0.0002		<0.0008	0.0028		94667	
Mercury Methoxobior	***************************************			0			-
Methyl Parathion		<b> </b>		0.08		0.001	14
Motybdenurs Nickel				0.06 33.7			14
Nitrate & Nitrite				44			
Nitrate Nitrioticosto Acid				0.5		9,014	37
Perstrion				0			1
Peretrion PC8s				0.0000		0.050	16
Phosphorus Potessium				16		6.82	16
Selenium	<0.002		<0.008	0.0125			
Silicon Silver	<0.01		0,010	0.04		0.004	90
Sodium				17 31	1.01	2.19	16
Strontum Sulphur				122	12.2	122	
Thellum				9.00		0.0	
Tin Titerium		<u> </u>		0.07			18
Tojephene			<del></del>	6,0006			1
Trihelomethenes Urerium				0		0.00	16
Vanedium			<del>                                     </del>	0.04		14	16
Zno Zroonium						9.0	
2.4-0 4.4-00T	<del></del>	<del> </del>		6			
245-TP					4	4	1
Distilled Water Leach (mg/L) Aluminum		<u> </u>		9.94		<u> </u>	
Ammonia	0.6	-	<0.008	9,017		0.001	
Areenio Berlum	<0.1		<0.1	0.84		0.0	
800		<del> </del>		19.67			0   4
Beryllium Boron	0.2		<0.1			0.2	7 94
Bromide Cadmium	<0.006	<del>                                     </del>	<0.005	0.0		0.000	4 97
Caloium				1600		0 32	3
Chloride Chromium	<0.06	4	<0.06	0.00		0.002	9
Cobatt				0.03	<u> </u>	0.00	6
COO	-			0.0		0.01	4
Cyanide	<0.2		<0.2	0.2		0 0.003	7 - 7
Fluorides	41.0			0.0	9.0	2 0.4	9
Leed	0.0	4	<0.06	0.1		2 0.4 0 0.00 7 7.3	0 0
Magneeium Manganese				1	0.04	21 23	2
Mercury	<0.0002		<0.0002	0.000	<u> </u>	0 0,000	8
Molybdenum Nickel	<del> </del>					0	
Nitrate		<b></b>		+		0	8
PC84					5	0 0.001	<u> </u>
Phenois	<0.001	+	<0.001	0.03	2 0.0	2 0.0	2
Phenol (refeet/) Phosphete					0	9.6	
Phosphorus Polassium		+		0.	•	0 9.7	7
Selentum	<0.002		<0.008	4.9	6 L	0 0.000	2 9 6 2 9
Silipon	<0.01		<0.01	0.01	2	0 0.000	2 0
Sodum				1	4 0.0	8 0	19 72 17 17 12 19 19
Stronture Sulfate	-t			111	7		7
Sulphur			<del></del>	<del> </del>		3	0
Thelium	<u> </u>			0.03	6	0 0.0	2
Vanedium				0.0		0 00	<u> </u>
Zine Ziroonium	<b>-</b>				0	0	0
Bulk Analyses (mg/kg)					ه اه		
Bergene Ethylbergene					1	11 6	11.
PC8s	<1.0			<del></del>	2 6	2 0	0
Totuene				137	0	469	22
TWH				100	9	0 1	64 1
XVenes							

TABLE A3: Historic Data for Dofasco Wastes

Code Number Amount (tonnes) Dete (ny/mm/dd)	BAGD 210	C 220	EM 221	EM	Approved M	FSD	MS	MS	MW	RWM
Number Amount (tonnes) Date (tyg/mm/dd)	219	220						-		
Date (yy/mm/dd)	7 !			222	223	224	225	226	227	220
	96/06/13	7 87/02/08	9 95/10/08	97/12/03	89/02/22	96/06/13	82/04/02	96/06/13	90/07/30	97/06/15
Laboratory Used			Ava(Dofesco)			?	•	7		Ava(Datasca
Sample IO/No. of Analyses	84		4	5	6	84		**	60	8
Reg 300 Acid Leach (mg/L)										
Aluminum								0.90		
Ammonia Arsenio	<0.001	0.000		<0.005	<0,001	0.009	<del></del>	<0.1 <0.001	0.002	< 0.006
Berlum	0.002	0,34		0.43	0.36	0.417		0.267	0.161	0.10
Beryllum								<0.006		
Boron		0.54		0.86	0.10	0.004		<0.001	<0.001	<0.002
Cadmiure Calciure	<0.001 1460	<0.002	<0.01	<0.002	0.001	0.004 81.9		0.32	552	
Chloride	336					7.9		0.512	14.8	
Chromium	0.033	<0.004	<0.01	0.0044	0.003	0.033		<0.01	0.01	<0.004
Copper	0,034	<0.001		<0.001	<0.002	0.008 <0.005		<0.005	0,156	<0.001
Cyanide Fluoride	5.86	<0.001		70.00	0.25	2.4		0.419	3.0	
Iron	0.5					12.7		<0.01	0.27	
Lead	<0.05	<0.04	<0.06	0.024	<0.06	0.35	ļ	0.001	0.059	<0.04
Magnesium Manganese	<0.01					0.33		<0.01	0.01	-
Mercury	0.00068	<0.001		<0.001	< 0.001	0.00006		0.00015	0.00005	<0.001
Nickel										
Nitrate	<0.01	0.52		0,25	0.000	0.83		0.50	1.4	<0.20
Nitrite Nitrogen (Total Organic)		<0,20		<0.20	<0.01	6.2		<0.1		<0.20
Phenois			0.004			0.120				
Phosphorus										
Potassium		-0.6					<b></b>	-0.064		<0.005
Selenium Silicon	<0.001	<0.005	ļ	<0.005	<0.001		<del>  </del>	<0.001	0.002	~v.u0
Silver	<0.01	<0.01		<0.01	<0.005	0.02		<0.005	<0.005	<0.01
Sodium										
Sulfate	856					69.3	<b> </b>	0.36	27,8 1073	
TDS Titanium	4900					584.0		40.0	10/3	
TKN										
TOC						175.0		1.0	05.3	
Vanadura						0.29		<0.05	0.13	
Zinc Distilled Water Leach (mg/L)	0.643					UZ		<b>VU.U</b> 3	9.13	
Aluminum		2.0		1.29	0.29					5.4
Arsenia		<0.005		0.003	<0.001					<0.005
Berium Sendium		<0.0003		<0.0003	<0.002					<0.005
Beryllium Boron		0.055		0.21	0.26					0.015
Cadmium		<0.002		<0.002	< 0.005					<0.002
Chloride		5.7		6.3	2.42					4.0
Chromium Cobelt		<0.004 <0.01		<0.01	<0.01 <0.01					<0.01
Copper		<0.006		<0.006	<0.03					<0.006
Cyanide		<0.001		<0.001	<0.002					<0.001
tron		<0.01	<del></del>	0.039	0,16					<0.01 <0.04
Leed Uthium		<0.04 0.02		0.025	<0.05					0.04
Manganese		<0.005		0.036	<0.01					< 0.005
Mercury		<0.001		0.002	<0.001					<0.001
Molybdenum Nickel		<0.02		<0.009	<0.02	ļ	<b>_</b>			<0.000
Nitrate		0.46		<0.00	<0.01					39.000
Nitrito		0.098		<0.20	<0.01					
Phenois		< 0.005		<0.006	0.0015					< 0.005
Selenium		< 0.005		<0.005	<0.001				<del></del>	<0.005 <0.01
Silver Sultate		<0.01	<del>                                     </del>	<0.01	<0.005	<del> </del>	<del>                                     </del>			52.4
TDS		444		906.0	66.2					334
TOC		3.7		3.4	1.6					8.7
Vanadum 73cc		<0.02 0.0052	<del>                                     </del>	0.002	<0.02	<del> </del>			<del> </del>	9.05 <0.005
Zinc Bulk Analyses (mg/kg)	•	0.0052	<del> </del>	0.00	20.00		<del> </del>		<b></b>	
Aluminum					<u> </u>	<u> </u>		7410.0		
Aluminum Trioxide		L		<b></b>	<u> </u>		4000		<b> </b>	
Beryflum Cadmium		<del> </del>	<del> </del>	<del> </del>		<del> </del>	<del>                                     </del>	0.13 <0.6	<del> </del>	<del> </del>
Calcium		<u> </u>						13400		
Calcium Oxide							3000			
Carbon							4000			<del>                                     </del>
Chromium Copper		<del> </del>	<del> </del>		27.9 40.3	<del> </del>	<del>                                     </del>	217.0 122.0		<del>                                     </del>
tron				İ	3 1000		767000	674000		
Lead					9.5			<0.4		
Magnesium Magnesium Ovide		ļ	<b></b>			<del></del>		4000.0		<del> </del>
Magnesium Oxide Manganese		<del> </del>	<del>                                     </del>	<del>                                     </del>	<del> </del>	<del> </del>	1000	4200.0	<del></del>	<del> </del>
Manganese Oxide (MnO)										
Molybdenum					ļ			1000.0		
Nickel		<b> </b>			34.8			9.0	<del></del>	<del> </del>
Phosphorus Potassium		<del> </del>	<del> </del>	<del> </del>	739	<del> </del>	<del> </del>	< <b>6</b> 0	<del> </del>	<del>                                     </del>
Potassium Oxide (K2O)										
Silicon Dioxide							6000			ļ
Silver		<b>_</b>		<b> </b>	<0.1			<0.5		<b></b>
Sodium Sodium Oxide (Na2O)		<del> </del>		<del> </del>	<del> </del>	<del> </del>	<del> </del>	2600.0	<del></del>	<del> </del>
							600	1420		
Sultur				1	1	T	T	270.0		T
Titanium		<b></b>	<del></del>		<del></del>	<del></del>	<del></del>	6/0.0		
Titanium Titanium Dioxide		<u> </u>			-				·	
Titanium Titanium Dioxide Vanadium								42.6	·	
Titanium Titanium Dioxide										

TABLE A3: Historic Data for Dofasco Wastes

							ed Mixed W		el G			WW	
Code	S/W	sw	SW	SW	SIW	SIW	ELG.		SLG 236	ļ			T
Number	229	230	231	232	233	234	236		7			i	l
Amount (tonnes)	1982	80/10/27				92/04/02	86/06/13		7/04/02	Meximum	Minimum	Average	Number o Deta Point
Date (yy/mm/dd) Laboratory Used	7	7	7	,	7	,	?		o(Dofasco)				Later Form
Semple ID/No. of Analyses	Stab Waste		**	**			**	•	•	Ì		ł	
Reg 300 Acid Leach (mg/L)		7	- 1	1	l	.				0.90	0.98	0.98	l
Aluminum			1							2.6			
Ammonia			<0.1	<0.06			9.007	9.004		0.011		0.003	
Areento		0.011	<0.001	0.008			0.125	0.051		0.43	0,008		
Berkunt		0,153	0,130							•	0		
Beryllium Boron								0,146		0.00	0.06		
Cadmium		<0.001	<0.1	<0.1			<0.001	<0.01		0,004 1460	0.61		<del></del>
Calcium		541	864.0	0.61			965.0 2.72			336	0		
Chloride		191	41.5	<0.01			0.01	0.003		0.033	0	0.009	
Chromium		< 0.005	<0.01 <0.005	<0.005			0.059			0,156			
Copper		20.000	<0.010	-34.00			9.1	0.004		0.1	0		
Cyanide Fluoride	<del>                                     </del>	5.0	2.03	0.02		$\longrightarrow$	1.26			5.86 12.7	0.03		
tron		0.26	<0.01	<0.01			0.40	<0.05		0.35			
Leed		<0.001	<0.05	<0.06			0.001	30.00		0.02		0.02	
Magnesium		<0.01	<0.01	0.02			0.01			0.33			
Manganese	<del> </del>	<0.0004	<0.00004	<0.00004			0.00006	<0.0008		0.00006			
Mercury Nickel	<del> </del>	~y		< 0.05						- 0			<del> </del>
Nitrate		4.05	24.2	<0.5			1.47	<0.2		24.2			
Nitrite			ليتا				0.2			6.2		1.7	
Nitrogen (Total Organic)	ļ		0.4				0.002			0.130	0.002	0.066	
Phenois	<del> </del>		0,136	<0.5						. 0	<u> </u>		
Phosphorus Potassium	+		<del>                                     </del>	<1				L		0.00			
Selenium	t	0.07	0.001	<0.001			0.012	0.002		0,07			
Silicon				< 0.05			8 445	<0.006	<del></del>	0.02			
Silver		<0.005	<0.005	<0.005			0.006	~0.000		0.02		0	
Socium			<del>  </del>	<2	<del></del>		659.0			856	0.36	277,81	
Sulfate		573 2760	36.0 1900	<50			6340	T		5340		2075	
TDS Titanium	+	2/60	<del>                                     </del>	< 0.005						0			<del>'  </del>
TKN	<del>                                     </del>									N/8	Ne.	1 50	+
TOC		120	2.3	1			9.0	<del>  </del>		175			
Vanedium				<0.005			<0.05	<del></del>		0.76		0.23	
Zinc		<0.05	<0.05	0.76			SU.U5		<del></del>			T	
tilled Water Leach (mg/L)	İ	ł	1 1		1 1			<0.01	l	5.4		1.0	
Aluminum	+	<del> </del>						<0.001		0.003		0.0000	
Arsenic Barium	+	<del> </del>						0,134		0.134			
Beryllium								0.0002		0.0002			
Boron								0.056		0.00		0.00	
Cadmium	0.020							<1.0	<del>                                     </del>	6.1		0 3.	
Chloride		<del> </del>	<del>                                     </del>					0.003		0.00		0.00	
Chromium	>0.005	<del>                                     </del>	<del></del>					0,10		0.		0.00	
Cobelt		1						0.006		0.00			
Cyanide		T					<b> </b>	<0.004 0.10	<del> </del>	0.10		0.0	
kon		<b></b>	ļ					<0.05	<del> </del>	0.00		0.0	
Lead	0.05						<del>                                     </del>	<0.01		0.0	5	0.0	
Lithium	+	+	-					< 0.01		0.03		0.00	
Manganese Mercury		<del>                                     </del>								0.00		0.000	
Molybdenum								<0.02	<del> </del>	0.0			0
Nickel								<0.2	+	0.4		0 0.1	
Nitrate		<del>                                     </del>						<0.2		0.09		0 0.02	
Nitrite	0.024	<del>                                     </del>	+		<del>                                     </del>				Ī	0.02		0.00	
Phenois Selenium	0,024	1	<del>                                     </del>	T				<0.05					0
Silver							ļ	<0.005	+				
Sulfate							<b></b>	51.3		506. 437			
TDS			ļ	<b></b>	<del> </del>		<del> </del>	4979		8.		6 3	
TOC			<del> </del>			<del> </del>	<del> </del>	0.000		0.0	5	0 0.0	2
Vanadium		+	+					0.00		0.0	3	0 0.00	-
Zinc Jk Anelyses (mg/kg)	+	+-	T	1								436	اء
Aluminum			1330.0				66 10.0	4	218	741			
Aluminum Trioxide			T		510	<del></del>	+	+	0.07			0 0.0	
Beryllium			<0.05	<b></b>			<0.8	+	3.			0 1	0
Cadmium	4	<del> </del>	<0.9 143000	<del> </del>	+	<del>                                     </del>	10633	5	49 10	0 14300	0 1340	00 7797	
Calcium Calcium Orida	<del></del>	+	143000		900					300		00 104	
Calcium Oxide Carbon		+	1							400			
Chromium			364.0				104,		14.			.3 132	
Copper			456.0			4	31.		11. 5626				
tron			486000		894000	697000	45600 <5.0	<del>*  </del>	7.		.5	0 3	4
Lead			<0.4	<del>                                     </del>	+	+	69 13.	<u> </u>	110		20 11	60 95	
Magnesium Magnesium Ovide	+	+	25500	<del>                                     </del>	200					100	20		<u> </u>
Magnesium Oxide Manganese	+	<del></del>	29400		1700		7800.	0	163			00 89	~
anganese Oxide (MnO)		<u> </u>					<b></b>			Ne.		0 9	27
Molybdenum			1000.0				1		<2 22	160	50		99
Nickel			259.0		<del> </del>	<del> </del>	21.		40		40		99
Phosphorus			840.0	+	+	+	433				33	0 1	49
Potessium			< 100.0	+	20	<del> </del>	T	-	1		20	20	20
Potassium Oxide (K2O)		+	+	+	2600		1			437	00 26	00 174	
Silicon Dioxide Silver			<0.5	<del>                                     </del>			< 0.5		<1		0	0 40	<u> </u>
Sodium			400.0						4	20			27
Sodium Oxide (Na2O)							<del> </del>		+		00 2	60 15	70
Sulfur			200		<del></del>	+	686		96		36		87
Titanium			836.0	+	40	+	1 200	-	<del></del>	7/0	N/a	N/a	
Titanium Dioxide		+	344.0	+	<del></del>	<del>                                     </del>	85	5	10				16
Vanadium		<del></del>				<del></del>				H	0	0	0
Water			8.03*	1	1		145			2 1	93 4	02	10

Page :

TABLE A3: Historic Data for Dofasco Wastes

				Other	Dofasco Waste				
Code	8FO 237		8F0 236	8FO 239	80F0 240	BOFO	BOFO	BOFO	BOFO
Number Amount (tonnes)	7		•	•	•	Madreum	Minimum	Average	Number of
Date (yy/mm/dd) Laboratory Used	82/04/02		96/09/13	Ava (Dotasco)	96/06/13				Data Points
Sample IO/No. of Analyses	Dry BFO	Wet BFO	00	8	***				
Reg 300 Acid Leach (mg/L)									
Aluminum Ammonia			0.20			0.20	0.26	0.28	-
Arsenic			0.004	<0.005	<0.001	0.004	0		3
Berlum Beryffum			0.005 <0.0005	0.3	9.04	0.3	0.04	Q, 14 1000067 0	
Boron				0.02		0.02	0.02	0.02	
Cadrelum Calcium			<0.001 50.0	<0.002	<0.001 963	963	50	501.5	3 2
Chloride			16.4		137	137	16,4	76.7	2 3
Chromium Copper			0.04	<0.004	0.018	0.04	0.006	0.019333333	3
Cyanide				<0.001	0.05	0.05	. 0	0.025	2
Fluoride tron			7.85 0.33		3.5 0.43	7.85 0.43	9.55 0.33	5.675 0.30	2 2
Lead			0.003	<0.06	0.22	0.22			3
Magneelum Manganeee			7.4 0.10		<0.01	7.4 0.18	7.4		2
Mercury			0,00096	<0.0001	0.0001	0.00006	0		3
Nickel Nitrate			<0.05 <0.05	<0.02	1.61	1.6	0		•
Nitrite				<0.02		0	- 0		
Nitrogen (Total Organic) Phenois					0.06	9.06	ERR 0.06	ERR 0.06	0
Phosphorus			<0.6				0	0	1
Potassium Selenium			8.0 0.006	0.0006	0.022	0.022	9.0006	0.0095	
Silicon			5.9			5.9	5.9	5.9	1
Silver			0.006	<0.005	<0.05	0.006 EBR	ERR	0.002 ERR	3
Sodium Sulfate			229.0		416	4 10	229	323.5	2
TDS Titanium			\$020.0 <0.006		2762	3020	2762	2891	2
TKN						ERA	ERA	ERR	0
TOC			22.0 0.12		21.2	9.12 0.12	21.2 0.12		2
Vanadium Zinc			<0.05		0.12	0.12	0		
Distilled Water Leach (mg/L)				40.00		•			
Aluminum Arsenia				<0.03 <0.0006		•	ě		i
Barium				0.06		0.06	0.06	0.06	1
Beryflium Boron				<0.0003		0.01	0.01	0.01	1
Cadmium				< 0.002		0	0		1
Chloride Chromium				0.71 <0.004		0.71 0	0.71	0,71	
Cobelt				<0.01		0	0		1
Copper Cyanide				<0.006 <0.001		0	0		1
Iron				0.01		0.01	0.01	0.01	1
Lead Lithium				<0.005 <0.01		0			<del>                                     </del>
Manganese				<0.005		0	. 0	0	1
Mercury Molybdenum				<0.0001 <0.02		0			1
Nickel				<0.009		Ö			j
Nitrate				<0.008		0.031			1
Nitrite Phenois				0.031 <0.005		0.031	0.031		1
Selenium				<0.0005		0	0		1
Silver Sulfate				<0.01		92.7	92.7		1
TDS				1530		1530	1530	1530	1
TOC Vanadium				<0.02 <0.02		3.5	3.5	3.5	
Zinc				<0.005		Ŏ	ŏ	ě	i
Bulk Analyses (mg/kg) Aluminum					1460	1460	1460	1400	
Aluminum Trioxide	17000	16000				17000	16000	16500	2
Beryllium Cadmium					<0.07 <1.1	0	0		1
Calcium					120000	126000	126000	126000	1
Calcium Oxide	68000	70000.0 362000				70000 429000	562000 562000		2
Carbon Chromium	429000				<1.1	. 0		0	î
Copper	84/888	<b>67000</b>			60.7 415000	80.7 415000	214000		3
tron Leed	214000	272000 200			< 0.6	200	0	100	2
Magnesium					2 1900	21900	21900	2 1900	1
Magnesium Oxide Manganese	21000	19000			6930	21000 6930	19000	6930	1
Manganese Oxide (MnO)		8000				8000	8000		
Molybdenum Nickel		· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>		900	900	900		<u> </u>
Phosphorus		200			250	250	200	225	2
Potassium Potassium Oxide (K2O)		5000	<b></b>		400	400 5000	5000		2
Silicon Dioxide	69000	73000				73000	69000	71000	2
Silver			<u> </u>		<0.7 5900	5900	5900		
Sodium Sodium Oxide (Na2O)		2000				2000	2000	2000	
Sulfur	6400	6000			1540 111	6400 111	1540		
Titanium Titanium Dioxide		1400	<u> </u>			1400			1
Vanadium					45	45	45	45	
Water	13.0*				30.1*				

TABLE A3: Historic Data for Dofasco Wastes

				- N - W -			
		CIOP		r Dofasco Wast	8SF I	8SF	80
Code Number	C 241	242		248	244	246	246
Amount (tonnes)	7	,		7	7	7	7
Date (yy/mm/dd)	62/02/10	82/03/0		86/06/13	85/04/03	86/06/13	96/06/13
Laboratory Used		Coel	Coles				
Sample IO/No. of Analyses	no analytical	7	٠				i
Reg 300 Acid Leach (mg/L)		,		l	ı	0.06	
Aluminum Ammonia				40		2	
Areenic				0.001		<0.001	0,001
Berlum				0,104		<0.005	
Beryllium Boron	<del></del>						
Cadmium				0.001		<0.1	0.001
Calcium				56.5		901	23.6 41.3
Chloride				20.6 0.01		0.01	0.10
Chromium Copper				< 0.005		<0.005	0.07
Cyenide				<0.100			0.06 12.0
Fluoride	ļ			0.00		<0.01	0.02
Iron Lead				0.000		<0.05	0.006
Magnesium							
Manganese				0.14		<0.01 <0.0004	0.01
Mercury	ļ			0.00005	<del></del>	- N. W. W. W.	
Nickel Nitrate	<del> </del>			<0.1		1,63	3.96
Nitrite	T						
Nitrogen (Total Organic)				0.6	<del> </del>		2.6 0.07
Phenois		<del></del>		0.047	<del>                                     </del>		
Phosphorus Potassium	<del> </del>					5	
Selenium				0.003		<0.001	0.022
Silicon				<0.005	<del> </del>	<0.006	<0.005
Silver	<del> </del>	<b> </b>	<b></b>	>4.000	<del> </del>	4	
Sodium Sulfate	<del>                                     </del>			101.4		11.1	221
TD6	I			699		1900	993
Titanium				40		<0.005 <0.1	
TKN	<del> </del>			***		- 6	36
TOC Vanedium						<0.005	
Zinc				0.06		<0.05	<0.05
Distilled Water Leach (mg/L)					1 1		
Aluminunt Arsenic							
Barium	<del> </del>						
Beryllium							
Boron	ļ						
Cadmium	<del> </del>	<del> </del>			1		
Chloride Chromium	<del> </del>						
Cobelt							
Copper	<del></del>	<0.005	<0.005	-	<del> </del>		
Cyanide fron	+	<b>40.005</b>	10.00				
Leed							
Lithium			ļ <u> </u>	<u> </u>	ļ		
Manganese	+						
Mercury Molybdenum	<del> </del>	<del>                                     </del>					
Nickel					<b></b>		
Nitrate					<b>_</b>		<del> </del>
Nitrite	<del></del>	0.068	0,001				
Phenois Selenium	+	V.V.	J.,,				
Silver							<b></b>
Suffete				ļ	<del> </del>	<del> </del>	
TOS	+	19	4	<del> </del>	+	<del>                                     </del>	<u> </u>
TOC Venedum	<del> </del>	T					
Zinc		1					
Bulk Analyses (mg/kg)							1
Aluminum	-	<del> </del>	<del> </del>	<del> </del>	8200	5050	<del>                                     </del>
Aluminum Trioxide Beryllium	+	<del> </del>	<del>                                     </del>			< 0.06	
Cadmium	T					<0.8	
Calcium				ļ	11122	202000	<del> </del>
Calcium Oxide	+	<del> </del>	<del> </del>	<del> </del> -	111200	<del> </del>	
Carbon Chromium	<del></del>	1				400	
Copper						27	
Iron	4		<del> </del>	<b></b>	657400	247000 <0.4	<del> </del>
Load Magnesium	+	+	<del> </del>	<del>                                     </del>	+	36200	
Magnesium Oxide	1		1		5900		
Manganese						49 100	-
Manganese Oxide (MnO)	+	1	<del> </del>	<del> </del>	9600	640	<del> </del>
Molybdenum Nickel	+	+	+	<del>                                     </del>		-	
Nickel Phosphorus	1					2300	
Potassium						< 100	
Potassium Oxide (K2O)			<del> </del>	<del> </del>	71100	<del> </del>	<del> </del>
		<u> </u>	+	+	/1100	<0.5	1
Silicon Dioxide	<del> </del>						7
Silicon Dioxide Silver		<del> </del>				2900	
Silicon Dioxide							<u> </u>
Silicon Dioxide Silver Sodum Sodum Oxide (Na2O) Sodum Oxide (Na2O)					12400	200	
Silicon Dioxide Siliver Sodium Sodium Oxide (Ne2O) Suttur Titanium					12400		
Silicon Dioxide Silver Sodium Sodium Oxide (Ne2O) Suttur Titanium Titanium					12400	200	
Silicon Dioxide Silver Sodium Sodium Oxide (Ne20) Sultur Titarium					12400	200 1500	

TABLE A4: Historic Data for Miscelaneous Wastes

Code Number	AUW 29	241	FC 299	PC 267	FC 200	FC 200	HOPT 276	N-OW 290
Company Name	Kack Automotive	Spee-Alon Metals LM.	Hermet Recovery Ltd. 203 Durham St.			Protoc Finishing Ltd. 1820 Sonhii	_Ounter_	Reletitedd
Address	Georgetown	Hamilton	Port Colborne	•		Medicovas		Burlinates
Amount (tonnes) Date (yy/mm/dd)	91/12/11	406 98/10/27	12 ouble yerds 92/01/07	1986	96/12/05	40/month 92/03/28	1994	\$0,000 \$0,00,21 \$ (Ave.) Philip Fook.
Laboratory Used	(34)	MOE (Avg.)	Philip Endr.	7	TSL		?	7 (Ava.) Philip Emir.
No. of samples for average Reg 300 Add Leash (mgL)		•						
Adria								0,0000
Auminum	<6.002		<0.002			0.00		0.027 0.007
Arsenia Barium	<0.2		4.20			0.09		0.067
Berytliutt BOD								
Boron	<0.02		4.A <0.006			<0.006 Q.42		9.027 9.0000
Cadmium Catolum	<0.006		34,244					0.21
Certaryl								
g-Chordene								M
Chromium Cobalt	<0.03		0.07			0.13		9.012 Fd
Copper								nd 9,004
Cyanide DDT			<b>40.2</b>					- N
Diazinon Dieldrin								8.0079
Endrin								9.0019
Fluoride Heptachior	0.00		2.96			1@		0.0001
Heatachior/Heat Eposide								0.00026
tron Leed	<9.03	9,327	0.11			2.40		nd
Lindane								0.00001 22.3
Magnesium Manganese								
Mercury Methoxychiar	<0.0001		<0.0002			0.006		net .
Methyl Parathion								Rd
Molybdenum Nickel		<0.010 4.47						nd ed
Nitrato & Nitrito	4					13.1		
Nitrate Nitrite	<1					<0.1		
Paratrion PCBs								nd
Phenois								
Phosphorus Potassium								212 1.0
Selenium	<0,004	0,0002	0.001			<0.81		9.002
Silicon Silver	<0.03		0.040			1.18		4.6 6.002
Sodium Strontium		1,457						2.6 0.56
Sulfur		1.79						5.2
Thefium Thenium	<del></del>	9,032						nd
Toxephene								<0.0010
Trihelomethenes Uranium	<del> </del>							<0.0010
Vanadium		0.007						0.036
Zinc Zirconium		7.966						nd
2.4-D								nd nd
24.5-TP Distilled Water Leach (mg/L								
Aluminum Ammonia	<del> </del>	2.52				7.30		
Arsenic	0.002	0.001	<0.002			9,007 <9.1		0.026
Barkim Barytium	<0.1	0.000 <0.010	1.12			361		
BOO Boron	5.0 <0.1		0,3			0.17	ļ	<5.1 <0,1
Cadmium	<0.006	<0.0020	<0.006	<0.005	<0.02	<0.005	<0.006	<0.00
Chloride Chromium	<0.06	<0.010	9.9	<0.006	<0.01	0.600 <0.00	0.016	<0.04
Cobalt		<0.010						
Copper Cyanide	<0.26	<0.010	<0.2			<0.2		<0.2
Fluoride	<1.9	<0.030	বাঞ			বাঞ্	<del></del>	বা:
Leed	<0.1	<0.030	9,08	0.02	<0.06	<0.06	0.14	49.
Manganese Mercury	<0.0002	<0.010	<0,0002			<6.0002	<del></del>	9.000
Motybelenum		0.01		ļ				
Nickel Phenois	<9.001	<0.010	<0.001	0.017	9,004	<0.001	9,040	<0.00
Selemium Silver	<0.002	0.004	<0.002 0.016			<0.002 <0.01	<del> </del>	<0.00
Strontium	0.01	0.24	V.410					
Titanium Vanadium	<del>                                     </del>	<0.010 <0.010				<u></u>	<u> </u>	
Zinc		0.003						
Bulk Analyses (mg/kg) Aldrin				<u></u>			L	1.00
Arsenio							<del> </del>	1.87
Cadmium a-Chlordane	<u> </u>							0.19
q - Chlordane Chlorophenois	<del>                                     </del>					<u> </u>	<u> </u>	0.60 <0.02
Chromium						ļ		31.0
Copper		<u> </u>	<u></u>		<u> </u>			36.8 4.60
DD€		-		<b> </b>				0.44 7.27
Dichlorophenois								<0.02
Dieldrin a – Endosulfan								2.96 0.63
								0.30
g - Endosulten	<del>                                     </del>	-	<del>                                     </del>	<del></del>			<u> </u>	0.53 0.22
Endrin								0.22
Endrin Heptachlor Heptachlor/Hept, Epoxide		<del> </del>		1	<b></b>	<del> </del>	<del></del>	20.3 Rd
Endrin Heptachlor Heptachlor/Hept_Enoide					<u> </u>			
Endrin Heptachlor Heptachlor/Hept_Engxide Laed Lindane Mercury								0.06
Endrin Heptachlor Heptachlor/Hept_Epoidde Lead Undane								9.06 ref
Endrin Heptachlor Heptachlor Lead Lead Lead Lead Lead Lead Lead Lead	0.0015							0.06 nd nd
Endrie Heptachtor Heptachtor /Hept, Epudde Laad Lindane Mercury Methosychter Mires PCS Pentachtoropherose Phenois								9.06 Md Md <0.2 <0.02
Endrie Heptachlor Heptachlor Heptachlor Heptachlor Lead Undane Mercury Methoxychler Mires PCS Pentachlor op henois Phenois Selenium								9.05 Md Md <0.2 <0.2 <0.02
Endrie Heptachtor Heptachtor /Hept, Epudde Laad Lindane Mercury Methosychter Mires PCS Pentachtoropherose Phenois								9.06 Md Md <0.2 <0.02

TABLE A4: Historic Data for Miscelaneous Wastes

Code	8CBC	scec	scac .	SCSC	ECSC	- 54		WA		WFM 317				i
Number	293	294 Unident	Uniter	296 Unificar	297 Uniform	203 Warmer		316 Norten Co.		COP Feedet			į	
Company Name Address										•	Marinum	Minimum	Average	Number of Data Feinla
Amount (lonnes)	<del>                                     </del>	-	-;	-,	-,	<del>-                                    </del>		degare Falls					1	
Date (yy/mm/dd)	87/06/09	1986	1967		67/11/16 TSL	1962	96/0		86/10/30 mb	1906				
No. of samples for average	TSL			TSL			C Furnace	L Furnece						
Reg 300 Asid Leash (mg/L)														
Aldrin											9,0009	9,0003 0,027	0.00	<del> </del>
Aluminum Areenia	<b></b>						0.11	0.003 0.24	9.046 <9.01		0.007		0.13	
Berlum							0.10	0.24	48		***	- :		1
Berythan		<del></del>												
BOO Boron							2.0	10.5 <0.02	- 4		19.5	0	3.36 0.00	
Cedminst							<0.02	<0.02	<0.006		9.21	0.21		
Calolum						==					•	0		1
g-Chlordens												8		
g-Clordane Chromium							0.00	9.07	<0.02		0,13		0.04	
Cobalt											0.004	0.004		
Copper Cyanide		<b></b>									•		9,000	
DOT											- 8		- 8	
Diezinea Dieldrin	<del></del>										0.0079	0.0079	0.0079	
Endrin							40.0		184		0,0018			
Fluoride Heptachlor	<b></b>	<del> </del>					M.3	122			0.0001	0.0001	0.0001	
Heatschier/Heat, Enguide											0.00026		0.0003	
ton	<del></del>					<del> </del>	1.0	0.1	9.16		2.00		0.56	
Leed Lindane											0.00001		0.00001	
Magnesium						<del>  </del>			<u> </u>		22.3	0.04	0.06	
Manganese							0.0003	<0.0001	9,0001		0.006	0	9,0011	
Methoxychior		$\Box$				<del> </del>			<del></del>			0	0	
Methyl Paration Molybdenum	<u> </u>										0	. 0	0.000	
Nickel								<b></b>		<del></del>	4,47 13.1			
Nitrato & Mirito	<del> </del>						0.01	0.07			0.07	0.01	0.04	
Nitrite							0.06	0.03	0.03		0.06		0.02	<del> </del>
Parathion PCBs	<del> </del>	<del> </del>										0	0	
Phenois									<0.02		312			
Phosp horus	<del> </del>	<del></del>						<u> </u>			1		11	
Potassium Selenium							0.002	0.007	<0.002		0.007			
8800B							<0.02	<0.02	<0.02		1.16	0	0.17	1
Silver Sodium											2.6	2.5		
Strontium									<del> </del>		1,457 5,2			
Sulfur Thellium	<del>                                     </del>	<del>  </del>									0			· I
Titanium											0.032			
Toxaphene Tribelomethenes	<del> </del>										0		9	
Trihelomethenes Uranium							0.01	<0.01	0.006		0.01 0.007			
Vanedium	<del></del>				<del>                                     </del>				<u> </u>		7,960	0.036	4.00	
Zine Zircenium											8			
2.4-D		<del>                                     </del>												
2 4.5-TP Distilled Water Leach (mg/L	<del></del>										2.62	2.62	2.02	
Auminum	<del></del>						<del> </del>	<del> </del>	<del> </del>		7.3			
Ammonia Arsenio	<del>                                     </del>	<del>                                     </del>									0.0282		0.000	
Barium							F			<del> </del>	1.13	1	0.24	
Beryllium BOD	<del> </del>												2.50	
Boron		4400	4000	-0.004	-0.00E	0.000			<del> </del>	0.010	0.01		0.12	
Cedmium Chloride	0.006	0.005	0.006	<0.006	<0.005	0.002					900	0.1	337	
Chromium	0.01	0.02	0.01	<0.01	<0.002	0.006				<0.006	0.00		9.01	
Cobalt	<del> </del>	<del></del>			<del>├</del>	<del> </del>		<del> </del>	1					
Copper Cyanide							<b></b>						0.00	
Fluoride		+			<del> </del>				1					
Leed	0.06							1		1			9.00	
Manganese		0.06	0.06	<0.06	<0.06	0.97				<0.01	0,14		0.0	
Mergury	+	0.06	0.06	<0.06	<0.06	9.07				<9.01	9.1		0.00	
	<del>                                     </del>	0.06	0.06	<0.06	<0.06	0,97				<0.01	9,000	0.0	9.000	
Molybdenum Nickel											9,000	9.0	9.000 9.000 9.000	
Molybdenum Nickel Phenois	0,000		0.00	<0.08						<0.01 0.01	0.000 0.000 0.04 0.04	9.0	9.000 9.000 9.000 9.000 9.000 9.000	
Molybdenum Nickel Phenois Selenium Silver	0,000										9.000 9.000 9.000 9.000 9.000	9.07	9.000 9.000 9.000 9.000 9.000 9.000 9.000	
Molybdenum Nickel Phenois Selenium Silver Strontum	9,000										9,900 9,900 9,900 9,904 9,900 9,910 9,20	9.0	9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000	
Molybdenum Notel Phenote Selentum Silver Strondium Titanium Vanadium	0.000										9,900 9,900 9,900 9,904 9,900 9,910 9,20	9.0	9 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000	
Molybdenum Nickel Pherrols Selenium Silver Stronium Titanium Vanadium Zing	0.000										9.000 9.000 9.000 9.000 9.000 9.001 9.001	9.0	9 9,000 9 9,000 9 9,000 9 9,00 9 9,00 9 9,00 9 9,00 9 9,00	
Mohrbdenum Nickel Pheriote Selenium Selver Strontium Titanium Vanadium Zina Bulk Analyses (mg/kg) Aldrie	0.000										9,000 9,000 9,00 9,00 9,00 9,00 9,00 9,	9.2	9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000	
Mohbdenum Mokel Phenole Belerium Säver Säver Säver Säver Säver Säver Säver Säver Säver Säver Säver Säver Säver Säver Agendium Agendium Agendi	0,000										9.00 9.000 9.00 9.00 9.00 9.00 9.00 9.0	9.00	9 9.00 9 9.00 1	
Molybdenum Moktel Phonois Belorium Saver Sirvetum Transum Vanedium Zino Bulk Analyses (mg/kg) Addris Arteria Cadmium a -Chipridams a -Chipridams	0.000										9.000 9.000 9.000 9.000 9.000 9.000 9.000 1.000	9.67 9.20 9.20 9.1.20 7.49, 7.1.91	9 9.00 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1
Mohbdenum Notel Phenols Selentum Shver Stronlum Trantum Vanadium Uanadium Suk Analyses (mg/kg) Advin Afteris Gamium a - Chterdane g - Chterdane	9,600										0.000 0.000 0.000 0.001 0.001 0.001 0.001 0.001 1.84 49.	9.00	0	1
Molybdenum Nektel Phenois Peterium Sever Severium Sever Severium Transum Varadium Transum Varadium Zina Bulk Analyses (mg/kg) Adrie Gedmium a-Chierdane g-Chierdane Chieros benois	0,000										9.000 9.000	9.0° 1.0° 1.0° 1.0° 1.0° 1.0° 1.0° 1.0° 1	0 0.00	1
Molybdenum Nickel Phenois Selenten Selenten Selenten Selenten Selenten Selenten Selenten Titantum Varaditen Zinc Bulk Analyses (mg/kg) Addrin Arsenis Gadmiten a - Citiandane a - Citiandane Cherostenis Cherostenis Cherostenis Cherostenis Cherostenis	6,000										9,000 9,000	9.000 1.000	0 0 0.00 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0.00 0 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
Mohbdenum Nokel Phenols Selentum Selver Selver Selver Strodiem Transum Vanadium Vanadium Analyses (mg/kg) Advis Arteris Cadmium aChisrdane Chromium Copper Chorophenols Chromium Copper	0,000										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.20 9.20 1.00	0 0 0.00 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
Mohbdenum Nokel Phenols Selentum Selver Selver Seventum Selver Strontum Vanadium Vanadium Vanadium Anteria Arteria Arteria	0.000										0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	9.000 1 9.000 1 9.000 1 1.80 7 1.80 9 9.1.1 1 9.000 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
Molybdenum Nickel Phenols Seinnism Seinnism Sever Severism Titanism Vanadism Titanism Vanadism Zing Bulk Analyses (mg/tg) Adrin Arsenis Cadmism G-Chiordane G-Chiordane Chiorophenols Chromism Copper DDD DDD DDC DOT Dothorophenols	0,000										0.000 0.000	9.000 1.20 1.20 1.20 1.20 1.20 1.20 1.20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Mohbdenum Nokel Phenois Selectum Selectum Selectum Selectum Transum Vanedium Zing Bulk Analyses (mg/kg) Advers Arteria Arteria Germann a - Citardams citardams Chromium Copper Dop Dop Doc Dotorop benois Disdorop benois	0.000										1 20 20 20 20 20 20 20 20 20 20 20 20 20	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0.00 0 0 0.00 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Mohbdenum Nokel Phenols Selectum Selectum Selectum Selectum Vanacium Titanium Vanacium Zing Suk Analyses (reging) Aderia Artenia - Citordania - Citordania	0.000										1 0.00	9.00 1.20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Molybdenum Notcel Phenols Seientum Seientum Seientum Server Server Server Server Server Server Server Sun Anachten Arberia Arberia Gedmitum aChierdane gChierdane Chierdane	0.000										1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.00 1.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Mohbdenum Notel Phenols Selentum Selentum Selentum Selentum Selentum Trantum Variadium Trantum Variadium Trantum Variadium Arberia Arberia Arberia ArberiaChterdane aChterdane Chterdane Arberia Arbe											1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0.00 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0 0.00 0 0 0 0 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
Molybdenum Noktel Phenols Belentum Seriet Serietum Serietum Titanium Vanedium Zino Suk Anelyses (mgkg) Akiria Aseria Cadimium Aseria Cadimium Cadim											1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.00 1.80 1.00 1.80 1.00 1.80 1.00 1.80 1.00	0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0 0.00 0 0 0 0 0 0.00 0 0 0 0 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
Mohbdenum Noktel Phenols Phenols Selectum Selectum Selectum Transum Vanedium Zing Suk Anelyses (mgkg) Akiria Aseria Cadimium Aseria Cadimium Cadimi											1	9.00 1.00	0	1
Mohbdenum Nokel Phenols Selentum Selentum Selentum Selentum Selentum Selentum Variadum Variadum Variadum Variadum Variadum Arberia Arberia Arberia Arberia Arberia -Chlorophenols Chromium Copper DDD DDE DDF DOF DOF Dichtorophenols Lettin Selentum											1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.00 1.4.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Mohbdenum Noktel Phenols Phenols Selectum Selectum Selectum Transum Vanedium Zing Suk Anelyses (mgkg) Akiria Aseria Cadimium Aseria Cadimium Cadimi											1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	92 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0.00 0 0 0 0.00 0 0 0 0 0.00 0 0 0 0 0 0.00 0 0 0 0 0 0.00 0 0 0 0 0 0 0.00 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Mohtbdenum Moktel Phenois Phenois Beleritum Bilver Birontium Titanium Vanedium Zing Bulk Anelyse (mghq) Aidrig Aserium Cadmium Cadmium Cadmium Cadmium Cadmium Cadmium Cadmium Cadmium Catrorium Cat											1	9.00 1.00	0 0.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Mohybdenum Nokrel Phenols Selentum Selentum Selentum Selentum Transum Vanadum Transum Vanadum Bulk Andyses (mg/kg) Addrin Arteris German Germa											1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.00 1.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
Mohybdenum Mickel Phenois Belentum Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Server Arsenia Ars											1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.2	0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

TABLE A4: Historic Data for Miscelaneous Wastes

Code	\$W	- SW	SIW	S.W	SW I	SW SW	I.W
Number	306	307	300	300	310	311	312 Waste Material
Company Name	Anti-Priction 402 Attwel Dr.	Coglinge 65 Division (D) 7007 Devand Dr.	1925 Barton St. E.	Lape inculators 100 Beddoe Dr.	Ontario Hvdro Kins Rd.	Ventutesh 1 Millen Crt	
Amount Connesi	Prote 77, 237, 68	Mesissauge Philip 52 Imerial	Phile 52 meris	Hamilton Philip Entine	Burlington Philip 77 Breat	Combridge Philip 77 Breat	<del></del>
Date (yy/mm/dd)	92/03/13	<b>82/06/20</b>	92/05/25	97/09/31 Disconstito Research	91/10/02 Philip Endr.	Phile 77 Breat 92/04/09 Phile Ends	99/10/14 TSL
Laboratory Used No. of samples for average	Philip Endr.	Δ	Philip Emir.		FIED FIED.		
Reg 300 Acid Leach (mg/L)							
Address				3.00			
Aluminum Argenia	<0.002	<0.02 0.46	0.003		<0.002	<0.002	
Barlett Barytlett	0,13	0.46	9.46		<0.1	0,13	
800							
Baron Cadmium	30.8 200.0	0.20 <0.006	<0.1 <0.006	<0.006	0.1 <0.006	<0.1 <0.006	
Calcium							
Cerband a-Chlordene			<u> </u>				
g -Clordane	0.04	0.04	<0.06	0.004	<0.06	<9.08	
Ciromium Cobalt	7.75						
Copper	<0.2	0.2	<0.2		9.11	<0.2	
Cyanide DDT							
Diezinon Dieldrin							
Endrin				9,400	বাঞ	<1.0	
Pluoride Heptschior	<1.9		<1.9			- 14	
Heptachtor/Hept. Epoxide							
Load	0.15	0.66	<0.06	<0.06	<0.04	<0.06	
Lindane Magnesium			<del> </del>				
Manganese						- A Ar	
Mercury Methoxychlor	0.0002	9.003	<0.0002		<0.0002	0.0007	
Methyl Parathion							
Molybdenum Nickel							
Mirate & Nitrite		0.5					
Nitrate Nitrite		<0.1					
Paratrion PCBs			<del> </del>	<b> </b>			
Phenois				<0.01			
Phosphorus Potassium			<u> </u>	<del> </del>			
Selenium	<0.002	0.01	<0.002		< 9.002	<0.002	
Silicon	0.001	0.19	<0.01		0.002	0.016	
Sodium							
Strontum Sulfur							
Thellum							
Titanium Toxaphene							
Trihelomethenes Uranium							
Vanadium							
Zino Ziroonium							
2.4-D							
2.4.5-TP Distilled Water Leach (mg/L)							
Aluminum	4.02	1.91				1.01	
Arsenic Arsenic	<0.002	<0.002	< 0.002		<0.002	< 0.002	
Barium Bary#um	<0.1	<0.1	0.50		<0.1	0.19	
800						<0,1	
Boron Cadmium	0.32 <0.005	0.11 <0.006	<0.1 <0.005		<0.1 <0.006	<0.005	<0.006
Chloride	169.7	347.7	317.6		4.9 <0.06	9.9 <0.06	<0.02
Chromium Cobalt	<0.06	<0.06	<0.06				
Copper Cyanide	<0.2	<0.2	<0.2		0.06	0.2	<del>                                     </del>
Fluoride	<1,9	<1.9	<1.9		<1.9	<1.0	
ton Lead	<0.06	<0.05	<0.06		<0.04	<0.06	0.1
Manganese			1			9,0004	
Mercury Molybdenum	0,0003	<0.0002	<0.0002	<u> </u>	<0.0002	V.ANO4	
Nickel Phenois	<0.001	<0.001	<0.001		<0.001	<0.001	9.002
Selenium	< 0.002	<0.002	<0.002		<0.002	<0.003	
Silver Strontium	<0.01	<0.01	<0.01		<0.01	0.013	
Thanken							
Vanadium Zinc		<del> </del>		<del> </del>	<u> </u>		
Bulk Analyses (mg/kg)							
Aldrin Arsenig							
Cadmium a-Chlordane		<u> </u>	<del>                                     </del>		-		
g-Chlordane					ļ		
Chlorophenols Chromium					<u> </u>		
Copper			T	<b>,</b>			
DOD DOE							
DOT							<del>                                     </del>
Dichlorop henols Dieldrin		t					
a — Endosulfan a — Endosulfan		<b></b>	-			<u> </u>	
Endrin							
Heptachier Heptachier/Hept, Eposide				<del> </del>			
Load							<b> </b>
Lindane Meroury				<del>                                     </del>			
Methoxyohlar			<b>!</b>				
Mires PC8	<del></del>	-			<del>                                     </del>		<u> </u>
Pentachlorophenois						ļ	
Phenois Selenium		<del></del>	<del> </del>	<del> </del>		<b></b>	<del> </del>
Tetrachioro phenois						<u> </u>	<del>                                     </del>
Trichlorop henots	1	ļ	<del></del>	<del> </del>		<del></del>	
Zino							

TABLE A5: Historic Data for Industrial Sands/Dusts/Ashes

BAGD	8	Centron				-	1		45,000 CFM			<0.002	0.15			40.000 V		8				8	***	1000	200				8		<0.002	€0,91			T								I	I									
BAGD	257	Canon				•	7	,	Elect Furn Dust			0.003	0.04			2.6		0.37				9	2	Samo					900		0.024	800																					nd Not Detected
BAGD	508	Canron				,	•	,	Muller Dust			0.002	0.60			×0.006		0.10	1			200	33.32		2000				010		<b>&lt;0.002</b>	<0.01																					
BAGD	256	Cenron				•	87/05/21	ç																																<0.06			δ.0γ γ	8	10.02			90.02	100.05	0.024			amiana ataka
ASSD	752	1		•		•	66/06/05	TBI																																			40.00	8	40.0K			800		9.00			the Tests are 24 hour externa feechate anabasis
ASSD	253	•		•		7	88/05/04	TS																																			40.00v	1	60.0			800	24.4	0.376			24 Tanta 978 24
ASSD	262	~				1	67/12/22	TSI																																			×0.006		×0.02			8	24/4/	0.145			
ASSD	255	,		6		7	80/10/08	TSI																																			<b>40.02</b>		40.01			8	800	0 037	200		
ASSO	952	Aluminum Molding?		-		•	1965	2																																			0.010		0.015			200	900	8100	610.0		
A SSD	249	Waste Management	of Canada Inc.	WILL SAN IN	-	•	87/09/02																																				<0.005		40.01				900v	700.0	***************************************		
787	248	400	Τ	•		•	86/10/08	TSI																																			<0.01		<0.01				×0.08	1000	0.004		
Max	247	2 8	Ť	S Descri na.		120/month	82/02/24	Philip Environmental		•		60000	3.0		15.2	900'0		<0.05			0,656	6.19	0.57		9.0004							200,02	N.V.							2000	100	0.1	900'0>	0.0	\$0.0>		<0.2	2.03	\$0.05	20005	200.0>	200'0>	<0.01
4	500	- Pariting	Company Name	Address		Amount (longer)	Deta (w/m/dd	t aboratory Used	Ol elome8	(Bom) the high see and	Tribully and Box and Box	Hommoly (	America District	Derrum	Bonn	Cadmium	Chorde	Chombin	Cobelt	Copper	Cyanide	Fluoride	pret	Manganese	Mercury	Molybdenum	Nickel	Nitrate & Nitrite	NATA	Phenois	Phosphorus	Enjeue	SIVE	2.4	The	Thenkm	Vanadum	Zhc	Distilled Water Leach (mg/L)	Ammona	Berlin	Boron	Cedmium	Chbride	Chrombia	Cobell	Cyanide	Fluoride	peel	Mercury	Phenols	Selentum	Bilver

TABLE A5: Historic Data for Industrial Sands/Dusts/Ashes

Charles   Char	Canron Tallman Bronze Columbian Fires bre   Fires bre     1	╫	274 Canvon 1 1 89/19/06 T'S	275 2 1 870728 158 158	276 7 7 5709/02 TSI	217 Canron Ing. 1 1 64/02/24 TS		### CALL   FAW OIL Ltd.   Industrial Rd.   Categoria   Exological   Exological   Call Call Call Call Call Call Call
Color   Trimerifects   Colorest   Trimerifects   Colorest   Trimerifects   Colorest   Trimerifects   Colorest   Colores	Canron Tailman Bronze Columbian Firesbne Firesbne  7	╫	7 7 7 86/19/06 179	7 7 7 870728 1151	7 7 7 8709/02 TSL	2 1 88/02/24 TSI		Industrial R4   Calescenta   R4   Calescenta   R4   Calescenta   S00   S201/21   Philip Environmental   C0,002   C1,000   C1,00
1	1 10,000 CFM 1900 CFM	╫╫	1 66/19/06 TSI	1 610128 TS	1 67/09/02 1781	1 85/02/24 13	12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Caledonia   Cale
1	10,000 GFM 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		1 66/19/06 1/3L	7 310128 13	7 \$7 \$706002 TSI	7 96.02/24 TSI		<ul> <li>600</li> <li>800</li> <li>82/01/21</li> <li>Philio Environmental</li> <li>&lt;0.13</li> <li>&lt;0.13</li> <li>&lt;0.13</li> <li>&lt;0.061</li> <li>&lt;0.061</li> <li>&lt;0.061</li> <li>&lt;0.061</li> <li>&lt;0.061</li> <li>&lt;0.061</li> <li>&lt;0.061</li> <li>&lt;0.061</li> </ul>
1	10,000 CFM 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 13 13	1 810602 TSI	1 68/02/24 1'8		\$00 \$201/81 
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10,000 CFM 7 1'84 1643 10,000 CFM 7 1'84 1643 10,000 CFM 7 1'84 1 1643 10,000 CFM 7 1'84 1 1643 10,000 CFM 7 1'84 1 1643 10,000 CFM 7 1'84 1 1643 10,000 CFM 7 1'84 1 1643 10,000 CFM 7 1'84 10,		13. TS.	13	\$7,00/02 TS	13 <u>1</u>		40.002 0.13 c.0.00
1	10,000 GFM 1884 1885 1 10,000 GFM 1805 1 10,000	╂	TS	1 B	SUMMUS TSI	18		### ##################################
10 10 10 10 10 10 10 10 10 10 10 10 10 1	10,000 GFM 7 7 7 7 7 7 7 10,000 GFM 6,000 GFM 6,000 1			<u>e</u>	<u> </u>			<ul> <li>&lt;0.002</li> <li>&lt;0.13</li> <li>&lt;0.1</li> <li>&lt;0.001</li> <li>&lt;0.001</li> <li>&lt;0.002</li> <li>&lt;0.0002</li> <li>&lt;0.0002</li> </ul>
1,000 C4M   1,00	2 000,001						<ul> <li>&lt;0.03</li> <li>&lt;0.021</li> <li>&lt;0.021</li> <li>&lt;0.021</li> <li>&lt;0.021</li> <li>&lt;0.024</li> <li>&lt;0.004</li> /ul>	1111191111111111
1000   1000							60.002 60.0021 0.0021 0.0021 0.0021 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00	11119111111111
1000   1000							40.000 40.0001 40.001 40.001 40.000 40.00	
Colored   Colo							0.0001 0.0271 0.0271 0.0200 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0	1   1   19   1   1   1   1   1   1   1
Columb							0.0271 0.0271 0.0046 0.0009 0.0009 0.0009 0.0009 0.0009 0.0009 0.0009	
Color   Colo	ÿ , d , i , i , i , i , i , i , i , i , i						0.0010 0.0010 0.0010 0.0010 0.0010 0.0017 0.0010 0.0010 0.0010	1   19   1   1   1   1   1   1   1
Column	<b>V O V O</b>						40,000 40,000	119111111111
Color   Colo	<b>V O V O</b>						40,001 40,001 40,001 40,004 40,001 40,001 40,001	19 1 1 1 1 1 1 1 1 1 1 1
Control   Cont	<b>V O O O O O O O O O O</b>						0.0046 -0.0010 -0.0010 -0.0017 -0.0017 -0.0010	9 1 1 1 1 1 1 1 1 1 1 1 1
Column	, , , , , , , , , , , , , , , , , , ,						12 0.0010 0.0000> 0.0000> 0.0000 0.0000	
Color   Colo							00000 00000> 00000> 00000> 00000 00000 00000 00000	
C   C   C   C   C   C   C   C   C   C							0.000 0.007 0.007 0.007 0.007 0.000	
Control   Cont	, i						08.0 08.0 08.0 08.0 08.0 08.0 08.0 08.0	
Color   Colo	, o						<0.007 <0.007 <0.017 0.020 0.0200	
Color   Colo							08.0	1 1 1 1 1 1 1 1
1	, d						0.000	
Composition   Composition	V 6						0.020	1 1 1 1 1 1 1
Column   C	• 6						0.020	
0,000    0	0						0.0208	<0.0002
0.000   0.00	o V							<0.0002
0.0000   0.000							\$V.WW.	
Color   Colo							0.0232	
0,10   0,10	<b>V</b>			T			8000	
0   0   0   0   0   0   0   0   0   0	3							The second secon
Colored Colo	<b>V</b>							
0.10   0.10	<b>V</b>						\$0.4	
Colore   C	V							
C-0.002   C-0.002   C-0.003   C-0.							<b>\$20.05</b>	
Control   Cont							70000	2000>
Control   Cont		-					90000	2007
Colored Colo	Buffere Surfur Tin Teanlum							15.55
100000	Suffur Tin Thenhum						2	A 144-140-140-140-140-140-140-140-140-140-
Column   C	Tin Transum						7.22	
Colored   Colo	Trankım						0.023	
CODE         CODE <th< td=""><td>Trankm</td><td></td><td></td><td></td><td></td><td></td><td>9000</td><td></td></th<>	Trankm						9000	
Color   Colo							200	
Color   Colo	Venedum						3	
Color   Colo	Zhc						<0.0014	
Color   Colo								
Color   Colo	ier Leach (mg/L)						,	
Color   Colo	Ammonia							
Columbia C			<0.01				×0,000	0.012
Color   Colo							<0.1	<0.1
Columbia   Columbia								0.1
Color   Colo	WC 2007			L	90000	\$0.00 0		
Color   Colo	10.00			L				
CO   CO   CO   CO   CO   CO   CO   CO				l			2	200
Columbia   Columbia	20.0 400.0> 20.0			1	20,01	80,	3	XXX.
CO   CO   CO   CO   CO   CO   CO   CO	Cobell					20.02		
<0.05         <0.05         <0.051         0.01         0.01         0.01         <0.01           <0.001	Cyanide		-				Z0.5	1
<0.05         <0.05         <0.001         0.01         0.01         <0.01           <0.001	Fluorida						<1.0	<1.0
40.001 40.016 0.10 0.032 0.002 0.000 <0.001 0.016 0.10	10007	L		\$0.0 <b>\$</b>	<0.05	×0.05	90.0V	<b>*0.0</b>
0.000 <0.001 0.016 0.10 0.032 0.002	100 07						<0.0002	<0.0002
AND AND AND AND AND AND AND AND AND AND	010 0100 10000	L		670.0	000	0 206	800	<0.001
	91.30 e10.30 e00.30			2/2/2	3	***	200	2000
	Selenium							3
							<0.01	<0.03

TABLE A5: Historic Data for Industrial Sands/Dusts/Ashes

Number 263 Company Name Stanton Pipe C Address 7 Amount (tennes) 7 Laboratory Used 7 Sample ID 7		22	120	3	200		F80	2				
81ambn Pipe 7 7 1 1985 1985	35	300	301	æ	88	ğ	8	315				
1 1965 7	,	Various Car Weshes	Figher	Canron	Centon	-	•	Region?				
	Г								Meximum		Average	Number of
						-	-	2				Deta Porma
				ľ	ļ		1					
	-	9006										
-	-	61/10/24	1962			EUMOS.	20,000		-			
	2	Philip Environmental 1	,			AVG (TSL)	7					
				Reclaimer	Shake Out Sand	~						
		-										
									•	0	0.00	
	8007	200 0		<0.002	<0.002				0.003	0	8.0	Ť
	2	4.		200	0.10				3.2	0.0271	0.61	11
	3								٥	0	0	
	1								15.2	0	15.4	
		950		3000	8000				2.6	0	0.24	٠
	93.0	2000		7	ANNA				42	12	12.0	
				3	8				260	٦	900	•
	800	800		80.0	37.0				9.5	1		
											2	
									٥		33.0	
		<0.2							0.656		0.214	
		912							0.0	٩	200	
	200	3000		800	\$0.0¢				16	0	1.43	•
	8 8 8	XXXX							0.0200	0.020.0	0.02	
				,000	10000				0.0022	0	0.0003	_
	10000	0.0003		0.000	- IMMIN				0 0033	0 0030	0 023	
Molybdenum									9	٥	80	
									9	6	80	
Narate & Narae									°	٥	8	
					***				8	8	81.0	
	08.0			8	8					G		
Phosphorus									388		2	-
	<0.002	×0.002		<b>40.002</b>	<0.002				100	2		
	×0.01	9.024		<0.01	<0.01				0.004	7		
									5			
									7.5	7	31.	
									003	0.023	0.023	
									0.0020	0.0020	0.003	
									0.022	0.022	0.022	
									1	0	8	
Distilled Water Leach (mg/L)									20	92.0	*	
									0.012	°	0.002	
									•	0	80	
									0.57	9.1		
			3000			3000	90002	90002	0.0	٥		8
40.000 40.000		•	200			****	200		a	•		
		2.	2			2007	807	90000	8	0	ŏ	8
Chromium <0.00			33.3			2			٩	0		
									0.24	•	90.0	
									8	•		
						20,0	200	8		9	L	*
×0.04			89.0			20.00	8	2				
			88			BC# U	0000	900 0	0.00		0.0	
0.042			7.066							°	L	
										°		

TABLE A6: Historic Data for Slags

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			Number of	Out Prints																									L					L	L	L															$\downarrow$							
			Average	•											8			8	8	80	0.534	200			6	8 8	8.	90.0	9	5	*			0.034	800	10 8		8	8	3 6	3		0.02	0.0007	88	~	0.01	0.007	0.033		ADEOD	0000		3/25	200	CONTRACT OF THE PARTY OF THE PA	367400	2
-															٥		5	0.2	0	•	0	-	•	3	٩	•	0	900	۰	•				۰	•			•	1	1	<b>†</b>	1	9	٩	82	8	0	,	•		ODSON.	200	335	300	38	308	367400	9
			Maximum												6		85		0.320	800	1 068	9		0.40	0.0003	0	•	980	0 003	1	S A			10	2	8		200		<b> </b>	<b> </b>	4.6	5.0	0.002	820	2	0.042	800	٥		PORON	3000	2000	200	382	DAZAD	367400	98
314		Canron Lid.			Ī		~	81/06/08		Gan Testing											-																	1			1		-								2000	3000	2000	00/00	3	2000	367400	98
313	t	Cancon		•			•	-	İ		-				2000		5		<0.005	0.02	-		-	80.0V	<b>40.0001</b>			900	2000	120	10.02						1	+	-	-	+										+				1	1		
208		Acen		44101.0	Company			-							2000		8.9		0.329	0.00	1068	0 1		0,40	0.0003				0 0003	1	87.7			50.05	40 05	000		200	20.00	80.00	80.00		<b>40.0</b>	<b>40.001</b>			<0.001	1000	8000		+			1	1			_
267		Alcan		4	Kinn		150/DAY	87/08/28	-	H	Cannot read		analysis	printout																											1													1				
286		Akan		45,510	Udiano		4	89,01,731		AVG (TSL)	œ	,																			1							300	20,000	×0.02			90.0V				0.042							1				
288	3	Acan		141	Udieno		2	AADIOA		AVG (TSL)																						·						900	80.05	<0.02			<b>40.0</b> 8				0.001											
28 PS	5	Acan		4	DOME		-	A7.MAP3	-	(NB)					800	3	6	0.5	×0.005	¥0.04		5	2	800	<0.0002	¢10	410		180		<0.02			3	00		3	2	100	0.1		4.0	0.1	0.002	220	2.0	0.02	8	-									
CSLG	689	Canada Ppe	Company Ltd		Hammon		200/week	01/01/01	10000	Philip Envir					80,0	2000	80.0	1.1	000	90.00	607		217	8	<0.0002				800,	30.00	100.0			800	200	3.5	207	8.5	40.05	0.02	<0.2	41.8	₹0.0\$	<0.0002			40.001	2000	1000		+							
Sode	MUTUAL	Company Name	Address				Amount (tonnes)	Deby (September )	The same of the sa	Laboratory Used	Gi elame8		Reg 300 Acid Leach (mg/L)		4000	Angule:	Bartum	Boron	Cadmium	Chemium	- Stanton	Cyalman	Filonos	peed	Mercury	Natate & Name	etan	Ohenoh		Deletion	SIVE		Distilled Water Leach (mg/L)	deent	Single Control	DOS.	000	Doron	Cedmium	Chrombia	Cyanide	Fluoride	Lead	Mercury	Narate & Narie	etaz	Phenoh	Beleation	O Property	Bulk Analyses (mg/kg)		Alumina	Iron Oxide	rme	Megneshim	Manganese Oxide (MnO)	Silca	4.4.0

# Appendix B

Supporting Calculations for Predicted Leachate Composition

Table B1: Theoretical Calculations of East Quarry Leachate Concentrations

**■ PHREEQE Modelling Documentation**