

HAROLD RIEDLER

BC - MIN OF ENV.

NOTES

April 12/11 130

Miro - Slav Stankovic Precision
Plating Ltd.

s.22

Chromic acid

Sulfuric acid tank full → even Ni;
Ni Electrodes Ni full

1012 Work safe BC Notified

1115 Update to PEA

chromic acid, sulfuric acid & nickel
plating solution

Fire Dept, Environ Health Authority,
Project Manager - Rob Wolfe (Credible Restoration
Ltd). Insurance representatives for responsible
party & Hanta & ACME onsite

1121 PEA

Hayer will assure:

- 1) security camera
- 2) outside remediation
- 3) provide env. consultant re: CSR
- 4) will be lead contact for business
Occ report inquiries ^{Remediation} _{Consent}
- 5) Before reoccupation will assure some
Health & Fire Dept approve reoccupation
- 6) Hayer to secure external & internal
hazardous waste.

7) conduct 24 hr initial response to remove
initial gross contamination.

Not Responsive

Location
1.76

NUC ECC update re: Saturday
11:11

Location
1.76

Not Responsive

1.76
1.76
1.76
1.76

May 08/2008

Kevin, Wally, neutralize pools acid
for first in water response in building.
Large vault discovered N.W. of spill site.
pH 3 \Rightarrow odor of solvent \Rightarrow brown
staining leading from stained concrete
in pooled area to storm manhole.
Will siphon gas contamination. Also
check electric vault.

Chief Karen Fry.

Not Responsive

Not Responsive

Spawn Harbor

s.22

~ 80% neutralized
Completed day's end
pump out & stabilize

Paramount

C.I.H. Pacific or Montec
Certified Industrial Hygienist

Recommendation to Spawn
Harbor.
A. Fred

8/

s.22

Spawn

D'Arcy.

- Building stabilized.
- Early evening -> Clipping Shop
- Neutralize -> moderate risk.
- 9:00 am, meeting tomorrow
owner, Lawrence Co.
meeting.

News 1/30

what happened.

April 10/11 Site Meeting @ 13245th 84th ave,
 Aug @ 0900 hrs.

- 1) Hazard associated with spilled material
 - a) Corrosive & oxidizing & strengthened concentration with time.
 - b) high electrical conductivity
 - c) combustible reaction with organics
 - d) highly toxic to human health & env.
- 2) Fire Dept, WorkSafe BC & BC MOE share concerns & have jurisdiction that led to evacuation under the Environmental Management Act.
 - a) Fire Dept - shut off of sprinkling unit
 - b) WorkSafe BC - protection of workers
 - c) BC MOE re: potential risk to human health & env. as well as ensuring proper waste & hazardous waste management
- 3) Fire Dept, WorkSafe BC & BC MOE will rely on Certified and Hygienist & Rogers for airborne contaminants & property management aspects. Also with residual contaminants, structural integrity & other risks related safety risks before transferring with drawing.

- evacuation notice. Transfer of life control
 3) acknowledged by property manager on 6
 4) Need to develop an site reoccupation plan
 for both neighboring strata commercial
 area & for 17045 building.
 5) security of ~~the~~ hazardous waste ^{offsite} disposal
 plan. > includes hazardous waste @ 13055 Midway
 area under City of Eng Bylaw order.

s.22

s.22

* 81806 987 2326 Thurs
 1012 am re: Vale April 1/11 Zurich

s.22

81250 3879620 Thurs 337 pm
 1150 AAB re: reporter

s.22

487 0788 Thurs 346 am

s.22

430 0671 231 pm Remindn Keystone
 Env.

112 107 Can be in Wednesday
Purification hallways cleaning

107 108 109 110 111 112 &
Electrical Room

Hygienist Report

120 119

(April 26th targetting
> safe for entry

Structural repair finishing

Toxic carcinogen has also exposed on line
Substantial insurance challenge.

Weekend - Hygienist completed work
within least exposed units

107 108 109 110 111 112, 120, 119
& electrical unit

112 & 107 potentially occupied by
Wednesday.

~~108~~ 109 Targetting April 26 for
safe entry

Then structural assessment & repairs
finishing

s.22

April 11 / 434

s.22

s.22

Not Responsive

//

Not Responsive

s.22

s.22

April 14/11

s.22

April - 14/11 289

7415

s.22

April 15/11

Shane News

s.22

let BYR and Mubny

7:1 pm Shawn Danton Hoyer

manpower & equipment to allow primary survey to be hand shake to get

s.22

April 18/11 432 am

s.22

19

Adjuster Unit Building
Hanco & ABE BCME

Fred -

s.22

2:00 - 3:00 meeting
Tomorrow off.

Not Responsive

APR 11/81

s.22

Angie 400

Mon 9:31 am

s.22

Mon 8:30 2004 120, pm
Mike Constan Restoration
Bunker on file name

s.22

B.
Fred Berg Surrey Fire Dept

s.22

Mon 3:44 pm

Effluent Material Unconsuming.

Memo -

s.22

Dunham cell

s.22

Hanco 604 214 7000
Safety Klean Mike Melonkov

604 952 4740
IM curran Kent Locke 604-597-7334

Mich Hainbridge & off property
adjuster for unloading Abreata

adjuster 101 & Unit
cleanup for

Q37 am 200 812 4167
Lynham

Not Responsive

Alf

Hanco is off site
Council member from

Not Responsive

Work of BC for
Geoff Lau

22's

geoff.lau@worksafebc.com
949 am

~~Rolling~~ Hollins -

Mark Ruelle WorkSafe BC Inspector
for Geoff Lau

July 12/11 Precision Plating Meeting #1 Fine
Hall, Surrey

Alfred Marchi, Property Management Co.
for Hocka Corporation
Miroslav -

Doug Miller - Claims PM

No further work until PM is
conducted
Hayco can make area

Miro - T. Morrison Arrow advised stakeholders
to get quote to start clean-up, to
get work to clean-up & secure the
unit 101 to allow investigation.
Funding provided
Samples obtained from floor & tanks
and ready to act

The owner's, Strata Plan #15
4521
Care of Paragon Realty
sent to my email address

April 20

GEOFF WICKSTROM, Dept Head
Fish & Aquaculture & Biological
Services Ken Stone Environmental

s.22

gwickstrom@kenstoneenviro.com

s.22

water quality outfalls to creek
Max on analysis

2 day turnaround
BOD, pH
sheen → from pond

hydrocarbon
odor strong ambient

open door ways

solvent some of strata unit

2 sections in creek

sediment w/ the spill site

surface / sediment

downstream d/c of first

down stream d/c of pond outfall

Geoff Lon

s.22

Reminder Breval
- Working with insurance
upland investigation
drill & install monitoring wells

Andrew McSherry
604 274 4814
cell 604 276 3100
andrew.mcsherry@worhitebc.com
9:00 am.
Bread Barden Guildford.

April 21, 2011

Tri arrow Industrial hazardous
waste
ammonia Cloud last year at that
site

Defender Cartridge Mask - as with
OSHS ment.

Wet dry vacuum -> not official
blowing chromium dust

Work safe BC

• notifications

• regulation compliance during

• emergency flush

Hard deliver Pollution Prevention
Order to remove contents from potentially
structurally compromised containers &
secure.

- Maintain site security fire watch
and site control of activities
to ensure compliance with
Work Safe BC Regulations.
- Informing. Occupants of hazards
associated with entry.
- Inspection and I.
- Conduct -

Bob Chandi Strata President,

s.22

OM Third.
Council.

s.22

s.22

Andrew Yip Aaron
CPHA A/c. Yip Aaron

s.22

Sam Fim Sen Wang Yee
Duff Lam

4400 Paerlin, Inc / Work Life BC.

s.22

947 am
Sohier & Angie #107 1345- BY PA
sm. Power turned-out

s.22

1016 am
Bob Chond's Strata President.

597 7370 1033 am
Helm Lock Y. H. H. H. H.

s.22

all:

Braham Knox

s.22

Safety Klen

April 21/11

April 22/11

April 20th 1214 am

s.22

2nd 1211 pm

s.22

Deep Low Work Life BC,
Apr 214 4883

s.17

21st 926 AM

s.22

Moham Khan

21st 1245 pm, 604 543 6700

s.22

emailed letter
& also idea to assist with buying
chemicals

April 21 143 pm 604 597 7370
Herb Lock

604 230 6162
Spoke with Andrew McSweeney

April 21 322 PM
604 582 5200

Ryan
Andrew McSweeney not attending
meeting Work Safe

April 420 PM
200 387 9955

Bret Under

Jim Hoff will be at office
Order before 7:00 PM

Bobation Chief
Chief for Peluca

John Cantella

April 26/11

Ben Enbrei gdm, info relations
Tameen Asade dandi Health.ca
Andrew McSherry WCO
John Cantella
Geoff WCO

- decontaminated

CM & sons - checking with
Infinity to have shipping
Chandy -
Infinity is only one doing work
& isolation.

Health Canada - Good Safety.
Levels & exterior packaging

Handled & Manage

Work safe Handling & have
Eye wash
SHU containment

Chemical inventory

Unit

Equipment & Work Log

Are they registered under WorkSafeBC

Other units

Qualified Hygienist

Heppa vacuuming & washing of hard surfaces

- Chemical, physical, biological, hazard assessment

- food ~~at~~ Health Canada

- WorkSafe provide information to return

- check electrical system to ensure no damage; after all known hazards

Waste - what are other work activities & tasks

- heppa vacuum & get power back up

- Check each individual unit & make determination of potential damage & power continuity. Working & then make informed decision to turn power on.

ORIGINAL SHOP QUANTITY: 2 180 GAL US TANKS

30.2 / GAL

OxyChem®



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS NUMBER : M4824

ISSUE DATE : 01-01-98

PRODUCT NAME : CHROMIC ACID-FLAKE

Manufacturer's Name and Address : Occidental Chemical Corporation, Occidental Tower
5005 LBJ Freeway, P.O. Box 809050
Dallas, TX 75380 (972) 404-3800

24 HOUR EMERGENCY TELEPHONE : 1-800-733-3665 OR 972-404-3228

TO REQUEST AN MSDS : 1-800-699-4970

CUSTOMER SERVICE : 1-800-752-5151

PRODUCT USE : Wood Treating, Metal Finishing, Plating, Pigments, Catalysts

CHEMICAL NAME : Chromium Trioxide

CHEMICAL FORMULA : CrO₃

SYNONYMS/COMMON NAMES : Chromic Acid
Chromium (VI) Oxide
Chromic Anhydride

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER / NAME
1333-82-0 Chromium oxide (CrO₃)

EXPOSURE LIMITS

PEL: 0.1 mg/m³ Ceiling as CrO₃
TLV: 0.05 mg/m³, TWA, A1 as Cr

PERCENTAGE

VOL	ND
WT	99-100

COMMON NAMES:

CHROMIC ACID
CHROMIUM COMPOUND#
CHROMIUM TRIOXIDE

Listed On (List Legend Below):

00 02 06 08 11 14 21 22 25 50 51

2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

Chemical name used in the SARA Section 313 List of Toxic Chemicals (40 CFR - Section 372.65) if different from CAS name.

LIST LEGEND

00 TSCA INVENTORY	02 SARA TOXIC CHEM, SECTION 313
06 NTP "KNOWN HUMAN CARCINOGEN"	08 IARC HUMAN CARCINOGEN, GROUP 1
11 CA PROP 65 - CARCINOGEN	14 PA SPECIAL HAZ SUBSTANCE
21 NJ SPECIAL HEALTH HAZ SUB	22 CANADIAN DOMESTIC SUB LIST
25 TSCA SEC12 EXPORT NOTIFICATION	50 PHILIPPINES INVENTORY (PICCS)
51 EINECS	

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

* STRONG OXIDIZER. CORROSIVE TO RESPIRATORY TRACT, EYES, SKIN AND *
* DIGESTIVE TRACT. CONTACT WITH BROKEN SKIN MAY RESULT IN ULCERS. *
* CONTACT CAN CAUSE SEVERE DAMAGE INCLUDING BURNS AND BLINDNESS. *
* MAY CAUSE KIDNEY AND LIVER DAMAGE. PROLONGED OR REPEATED *
* INHALATION MAY CAUSE ULCERATION OR PERFORATION OF NASAL SEPTUM. *
* MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. *
* POTENTIAL CANCER HAZARD. CONTAINS MATERIAL WHICH MAY CAUSE *
* CANCER. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE. *
* Solid dark red flakes or powder; no odor *

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY:

Inhalation, Eyes, Skin, Ingestion.

TARGET ORGANS:

Kidneys, Liver, Nasal Septum, Eyes, Skin, Respiratory Tract, Gastrointestinal Tract.

IRRITANCY:

All routes of exposure, Severe.

SENSITIZING CAPABILITY:

May cause skin sensitization.

REPRODUCTIVE EFFECTS:

None known.

CANCER INFORMATION:

Contains a listed carcinogen. See Sections 2 & 11.

3. HAZARDS IDENTIFICATION (Continued)

SHORT-TERM EXPOSURE (ACUTE)

INHALATION:

Inhalation of vapor, mist or liquid may cause severe burns of the nasal septum and respiratory tract.

May cause kidney and liver damage.

EYES:

Contact can cause severe damage including burns and blindness.

SKIN:

Contact can cause severe burns. Contact with broken skin may lead to formation of firmly margined "chrome sores". May cause allergic contact dermatitis. Dermal absorption of large amounts may result in kidney failure and death.

INGESTION:

Can cause severe tissue destruction. Kidney failure may follow and result in death. May cause liver damage.

REPEATED EXPOSURE (CHRONIC)

Prolonged or repeated contact may cause conjunctivitis, "chrome sores" on skin (especially broken skin), or ulceration and perforation of the nasal septum. Epidemiological studies indicate long term exposure to dusts and mists in chrome processing industry is associated with increases in respiratory tract cancer in man; the causative agent is not known. Epidemiological studies have not demonstrated any increased risk of cancer at exposure levels below the current PEL.

SYNERGISTIC MATERIALS:

None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing disorders affecting target organs.

4. FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

4. FIRST AID MEASURES (Continued)

SKIN:

Immediately flush contaminated areas with water. Remove contaminated clothing and footwear. Wash contaminated areas with plenty of soap and water. Wash clothing before reuse. Discard footwear which cannot be decontaminated. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

Remove to fresh air. If breathing is difficult, have a trained person administer oxygen. If breathing has stopped, have a trained person administer artificial respiration. If conscious, irrigate nasal passages and mouth with water. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY. Accident victims should be given 5-10 gm ascorbic acid (not effervescent tablets) dissolved in water. This dose can be repeated several times.

NOTES TO PHYSICIAN:

Massive overexposure to solutions of this product could lead to kidney failure and death. It has been reported that there is little value from chelating agents, however, ascorbic acid administered intravenously and locally is an effective antidote (converting Cr6 to Cr3) in preventing renal tubular failure. Skin ulcers may be treated by removal from exposure, daily cleansing, debridement, and application of antibiotic cream and dressing. Dialysis may be necessary as indicated. Up to 10 grams Ascorbic Acid in stomach. Plus I.V. Ascorbic Acid 1 gram in divided doses. Monitor blood chemistries, force fluids for diuresis (of chrome). Do not attempt chelation! Protect renal tubules.

5. FIRE FIGHTING MEASURES

Flash Point: Non-flammable

Method: Not applicable

Autoignition Temperature: Not combustible

FLAMMABLE LIMITS IN AIR, BY % VOLUME

Upper: Not applicable

Lower: Not applicable

EXTINGUISHING MEDIA:

Non-flammable / Non-combustible.

Use agents appropriate for surrounding fire.

5. FIRE FIGHTING MEASURES (Continued)

FIRE FIGHTING PROCEDURES:

Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

Under fire conditions, decomposing material may form a hot, viscous foam.

FIRE AND EXPLOSION HAZARD:

Oxidizer. Avoid contact with organic materials (see Section 10).

SENSITIVITY TO MECHANICAL IMPACT:

Not sensitive.

SENSITIVITY TO STATIC DISCHARGE:

Not sensitive.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Evacuate unnecessary personnel.

Follow protective measures provided under Personal Protection in Section 8.

People performing the cleanup should have full protective equipment including a NIOSH/MSHA approved positive pressure self-contained breathing apparatus.

ENVIRONMENTAL PRECAUTIONS:

Do not allow entry into sewers and waterways.

Spills or releases should be reported, if required, to the appropriate local, state and federal agencies.

METHODS FOR CLEANING UP:

Stop leaks. Remove as much as possible (e.g. vacuum truck or shovel into steel container). Then treat the spill area with a reducing agent to convert the hexavalent chromium to the trivalent form (sodium bisulfite, sodium sulfite, ferrous sulfate or ferrous chloride). Neutralize with a weak base (sodium bicarbonate, soda ash or lime). Following neutralization, soak up with inert absorbent material (e.g. sand) and place in a closed, labelled container and store in a safe place to await disposal.

7. HANDLING AND STORAGE

HANDLING:

Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the MSDS.

Do not get in eyes, on skin or clothing.

Avoid prolonged or repeated exposure.

Avoid breathing airborne particulates; wear respiratory protection when exposure is possible.

Wash contaminated clothing before reuse.

Wash thoroughly with soap and water after handling.

SPECIAL MIXING AND HANDLING INSTRUCTIONS:

Do not allow contact with materials as noted in Section 10.

STORAGE:

Store in tightly closed, labelled containers away from combustible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

The work area should be isolated and contained and provided with adequate local exhaust ventilation or other controls where dust or fumes may be generated. The number of persons exposed should be minimized.

Certain processes like chrome pigment production, high temperature welding or cutting, etc., may form materials more hazardous to humans than this product. The materials may be the formation of slightly soluble salts (barium, zinc, calcium or other chromates) or fumes of chromium/chromic acid, respectively which are known to be human carcinogens. Engineering controls and local exhaust ventilation is required to ensure that worker exposure is below current PEL.

PERSONAL PROTECTION

RESPIRATORY:

Wear a NIOSH/MSHA approved respirator following manufacturer's recommendations, where dusts, mists, fumes or vapors may occur.

EYE/FACE:

Wear chemical safety goggles plus full face shield to protect against splashing when appropriate (ANSI Z87.1).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

SKIN:

Protective clothing should be worn and changed at least daily. Wash contaminated clothing with soap and water and dry before reuse. Advise the laundry of the material contaminating the clothing.

Wear chemical resistant gloves such as PVC or nitrile.

OTHER:

Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Solid dark red flakes or powder; no odor

Odor Threshold: Not applicable

Specific Gravity (Water=1): 2.70 @ 25°C

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not applicable

Density: 85-90 lbs/cu.ft. (tapped)

Evaporation Rate: Not applicable

% Volatiles by Wt: Not applicable

Boiling Point: Not applicable

Freezing Point: Not applicable

Melting Point: 197°C (387°F)

Solubility in Water (% by wt.): 63% @ 25°C, highly soluble

pH: 1.1 for a 1% solution @ 25°C

Octanol/Water Partition Coefficient: Not applicable

Thermal Decomposition Temperature: Not available

Other: Not available

VOC (g/l. by wt.): Not applicable

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

 X STABLE UNSTABLE

10. STABILITY AND REACTIVITY (Continued)

REACTS WITH:

<u> </u> AIR	<u> </u> OXIDIZERS	<u> X </u> METALS
<u> </u> WATER	<u> X </u> ACIDS	<u> X </u> OTHER
<u> X </u> HEAT	<u> X </u> ALKALIS	<u> </u> NONE

HAZARDOUS POLYMERIZATION:

 OCCURS X WILL NOT OCCUR

COMMENTS:

This product is a strong oxidizing agent, even in solution. Avoid contact with strong acids, alkalis, organic materials, oils, greases, or any easily oxidizable material. Corrosive to some metals. This product is hygroscopic. DO NOT store in humid places.

HAZARDOUS DECOMPOSITION PRODUCTS:

None.

11. TOXICOLOGICAL INFORMATION

1333-82-0 Chromium oxide (CrO3)

ACUTE ORAL LD50: (rat) 52 mg/kg (both sexes)

ACUTE DERMAL LD50: (rabbit) 57 mg/kg (both sexes)

ACUTE INHALATION LC50: (rat, 4hr) 217 mg/m3 (both sexes)

PRIMARY SKIN IRRITATION:

	Dry Solid 4 hrs	Moistened 4 hrs	Dry Solid 24 hrs	Moistened 24 hrs
Erythema	2/6	6/6		
Edema	0/6	5/6		
Necrosis	0/6	1/6		
Corrosion			1/1	1/1

NTP and IARC have determined that there is sufficient evidence for the carcinogenicity of hexavalent chromium compounds both in humans and experimental animals. However, the hexavalent chromium compounds responsible (for human carcinogenicity) cannot be specified.

Chromic acid contains hexavalent chromium and is classified as an IARC (Group 1) carcinogen, and a known carcinogen by NTP.

12. ECOLOGICAL INFORMATION

1333-82-0 Chromium oxide (CrO3)

AQUATIC ECOTOX DATA

Fish:

LC50 (96 hr.)	(Sheepshead minnow)	39	mg/L
LC50 (96 hr.)	(Bluegill sunfish)	44	mg/L
LC50 (96 hr.)	(Rainbow trout)	28	mg/L
MAIC (35 day)	(Fathead minnow, growth)	2	mg/L
BCF (22 day)	(Rainbow trout)	< 1*	
* based on concentration in muscle as chrome (VI)			

Invertebrates:

EC50 (48 hr.)	(Water flea)	0.8	mg/L
EC50 (48 hr.)	(Mysid shrimp)	5.9	mg/L
EC50 (48 hr.)	(Quahog clam)	4.3	mg/L
MAIC (21 day)	(Water flea, repro.)	4.7	ug/L
BCF (84 day)	(Oyster)	125	**
BCF (84 day)	(Blue mussel)	192	**
** as chrome (VI)			

Plants:

EC50 (96 hr.)	(Green algae, growth)	183	ug/L **
BCF (Benthic algae, phytoplankton)		1600 & 2300	**
** as chrome (VI)			

TERRESTRIAL ECOTOX DATA

Wildlife:

LD50 (14 day)	(Mouse, oral)	127	mg/Kg
LD50 (14 day)	(Quail, oral)	93.5	mg/Kg
LC50 (8 day)	(Quail, dietary)	> 3,203	ppm
LC50 (8 day)	(Duck, dietary)	> 3,203	ppm

ENVIRONMENTAL FATE DATA

Biotic:

Biodegradation Inorganic, not subject to biodegradation

Abiotic:

(1/2 life) Persists as Cr(VI) or Cr(III)

12. ECOLOGICAL INFORMATION (Continued)

There is a significant amount of information concerning the environmental fate and effects of chromium oxide (chromic acid or anhydride). Chromium oxide and chromium have been found to exhibit moderate to high toxicity to aquatic and terrestrial organisms. Chromium oxide will persist primarily as chrome (III) and chrome (VI) in water and soil systems. Material released to the atmosphere is subject to deposition with particulates or rainfall. Under certain environmental conditions chromium may be subject to low levels of bioaccumulation in both aquatic and terrestrial plants and animals. There is no indication of biomagnification in the food chain. Precautions should be taken to prevent the accidental release of this material to the environment.

13. DISPOSAL CONSIDERATIONS

Treat with a reducing agent to convert hexavalent chromium to trivalent chromium, then neutralize with a weak base. The solid material meeting treatment standards may be disposed of via an approved chemical waste landfill in accordance with all federal, state and local requirements. (See Section 6 of the MSDS).

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: CHROMIUM TRIOXIDE, ANHYDROUS

DOT HAZARD CLASS: 5.1 (8)

DOT IDENTIFICATION NO: UN1463

DOT PACKING GROUP: II

DOT HAZARDOUS SUBSTANCE: RQ 10 LBS (CHROMIC ACID)

DOT MARINE POLLUTANT(S): NA

ADDITIONAL DESCRIPTION REQUIREMENT: TOXIC

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372. See Section 2, List Legend 02.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

OCCIDENTAL CHEMICAL CORPORATION
MSDS NUMBER : M4824
PRODUCT NAME : CHROMIC ACID-FLAKE

PAGE 11 OF 14
01-01-98

15. REGULATORY INFORMATION (Continued)

To aid our customers in complying with regulatory requirements, SARA Title III Hazard Categories for this product are indicated below. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40.CFR.370. Please consult those regulations for details.

TSCA:

All components of this product that are required to be on the TSCA inventory are listed on the inventory.

SARA/TITLE III HAZARD CATEGORIES:

Immediate(Acute) Health:	<u>YES</u>	Reactive Hazard	<u>NO</u>
Delayed(Chronic) Health:	<u>YES</u>	Sudden Release of Pressure	<u>NO</u>
Fire Hazard:	<u>YES</u>		

HMIS HAZARD RATINGS:

HEALTH HAZARD: 3* FIRE HAZARD: 0 REACTIVITY: 1

STATE REGULATIONS:

See Section 2. COMPOSITION/INFORMATION ON INGREDIENTS list legend for applicable state regulation.

Consult local laws for applicability.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING: This product contains a chemical known to the State of California to cause cancer.

INTERNATIONAL REGULATIONS:

Consult the regulations of the importing country.

CANADA:

WHMIS Hazard Class: C, D1A, D2A, E

16. OTHER INFORMATION

For additional non-emergency health, safety or environmental information telephone (972) 404-2405 or write to:

Occidental Chemical Corporation
Product Stewardship Department
5005 LBJ Freeway
P.O. Box 809050
Dallas, Texas 75380

16. OTHER INFORMATION (Continued)

MSDS LEGEND:

ACGIH = American Conference of Governmental Industrial Hygienists

CAS = Chemical Abstracts Service Registry Number

CEILING = Ceiling Limit (15 Minutes)

CEL = Corporate Exposure Limit

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit (OSHA)

STEL = Short Term Exposure Limit (15 Minutes)

TDG = Transportation of Dangerous Goods (Canada)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average (8 Hours)

WHMIS = Worker Hazardous Materials Information System (Canada)

* = See Section 3 Hazards Identification - Repeated Exposure (Chronic) Information

IMPORTANT: The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, OR OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.

17. WARNING LABEL INFORMATION

SIGNAL WORD:

DANGER

HAZARD WARNINGS:

STRONG OXIDIZER.

CORROSIVE TO RESPIRATORY TRACT, EYES, SKIN AND DIGESTIVE TRACT.

CONTACT WITH BROKEN SKIN MAY RESULT IN ULCERS.

CONTACT CAN CAUSE SEVERE DAMAGE INCLUDING BURNS AND BLINDNESS.

17. WARNING LABEL INFORMATION (Continued)

MAY CAUSE KIDNEY AND LIVER DAMAGE.

PROLONGED OR REPEATED INHALATION MAY CAUSE ULCERATION OR PERFORATION OF NASAL SEPTUM.

MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.

POTENTIAL CANCER HAZARD. CONTAINS MATERIAL WHICH MAY CAUSE CANCER. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE.

PRECAUTIONS:

Avoid breathing dust, vapors or mist.

Avoid contact with eyes, skin and clothing.

Wear a NIOSH/MSHA approved respirator, chemical splash goggles, full face shield, protective clothing and chemical resistant gloves.

Use with adequate ventilation to maintain exposure level below PEL.

Wash thoroughly after handling.

Avoid contact with strong acids or bases.

Avoid contact with organic materials, oils, greases or any easily oxidizable material.

Before using, read Material Safety Data Sheet (MSDS) for this material.

FIRST AID

EYES:

IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

Immediately flush contaminated areas with water. Remove contaminated clothing and footwear. Wash contaminated areas with plenty of soap and water. Wash clothing before reuse. Discard footwear which cannot be decontaminated. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

Remove to fresh air. If breathing is difficult, have a trained person administer oxygen. If breathing has stopped, have a trained person administer artificial respiration. If conscious, irrigate nasal passages and mouth with water. GET MEDICAL ATTENTION IMMEDIATELY.

17. WARNING LABEL INFORMATION (Continued)

INGESTION:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY. Accident victims should be given 5-10 gm ascorbic acid (not effervescent tablets) dissolved in water. This dose can be repeated several times.

IN CASE OF SPILL OR LEAK:

Stop leaks. Remove as much as possible (e.g. vacuum truck or shovel into steel container). Then treat the spill area with a reducing agent to convert the hexavalent chromium to the trivalent form (sodium bisulfite, sodium sulfite, ferrous sulfate or ferrous chloride). Neutralize with a weak base (sodium bicarbonate, soda ash or lime). Following neutralization, soak up with inert absorbent material (e.g. sand) and place in a closed, labelled container and store in a safe place to await disposal.

NEVER FLUSH TO SEWER.

Spills or releases should be reported, if required, to the appropriate local, state and federal agencies.

FIRE:

Use NIOSH/MSHA self-contained breathing apparatus and full protective equipment.

Use extinguishing medium as appropriate for surrounding fire.

HANDLING AND STORAGE:

Store in tightly closed, labelled containers away from combustible materials.

DISPOSAL:

Dispose of spilled or waste product after appropriate treatment in a licensed landfill in accordance with federal, state, and local regulations.

INFORMATION REQUIRED BY FEDERAL, STATE OR LOCAL REGULATIONS:

This Product Contains:

CAS#	NAME
1333-82-0	Chromium oxide (CrO3)

HMIS RATING: HEALTH 3* FLAMMABILITY 0 REACTIVITY 1

LABEL NUMBER: 1097M4824

For Industrial Use Only

PHOTOS TAKEN BY
HAROLD RIEDLER
ON APRIL 12, 2011
OF INITIAL CLEAN-UP
& IMPACTED AREA























































ANOL[®] 40-CO

Caution!

May cause irritation to system.

Product Class -- Alkanolamide

Precautions

Avoid contact with skin and eyes. Wear goggles and gloves when handling. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

First Aid

EYES: Immediately flush eyes with water for at least 15 minutes. Get medical attention.
SKIN: Immediately flush skin with water. Remove contaminated clothing.
INHALATION: Remove to fresh air. Get medical attention if not breathing. Give artificial respiration if breathing is difficult. Give oxygen. Get medical attention if breathing is difficult. Give ventilation if swallowed.
Spill and Leak: Certain spill and prevent discharge into waterways and streams. Evacuate area. Notify personnel and provide full protection. Use appropriate absorbent material and then placed in closed container for disposal. Keep out of low areas. Ventilate closed spaces before entering.

eyes, skin, and respiratory

Fire

Use dry chemical foam carbon dioxide or water spray extinguishers. Do not use water. Do not use alcohol resistant foam. Do not use dry powder extinguishers. Do not use water. Do not use alcohol resistant foam. Do not use dry powder extinguishers.

Storage

Avoid freezing or excessive heat. Avoid contact with water. Avoid contact with water. Avoid contact with water.

Flash Point: 119.9 °C (247.8 °F)

HMS: H 2 F 1 R 0 PHE X

NFPA: 2 3 1 R 0 PHE X

Stepan

SKU# 1051132
LOT# 7074495

US-DOT - NOT REGULATED
IM01M0G - NOT REGULATED
CA01A1A - NOT REGULATED

AMOL® 40-CO

Stepan

Caution!

May cause irritation to the eyes, skin, and respiratory system.

Product Class -- Alkanolamide

Precautions

Avoid contact with skin and eyes. Wear goggles and gloves when handling. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

First Aid

EYES: Immediately flush eyes with water for at least 15 minutes. Get medical attention.

SKIN: Immediately flush skin with water. Remove contaminated clothing.

INHALATION: Remove to fresh air. Get medical attention if not breathing. Give artificial respiration if breathing is difficult. Give oxygen. Get medical attention.

INGESTION: If swallowed, get medical attention. Do not induce vomiting.

Spill and Leak

Contain spill and prevent discharge into waterways and sewers. Evacuate unnecessary personnel and provide full protective equipment for clean up crew. Smaller spills may be soaked up with compatible absorbent material and then placed in closed containers to await proper disposal. Keep out of low areas. Ventilate closed spaces before entering.

Fire

Use dry chemical, foam, carbon dioxide, or water fog. Wear full protective equipment including self contained breathing apparatus.

Storage

Avoid freezing or excessive heat. Keep tightly closed in a cool, well-ventilated place.

NFPA: H2 F1 R9

HMS: H2 F1 R0 PPEX

Flash Point: (> 93.9°C), > 201°F PMCC





Riedler, Harold ENV:EX

From: Thomson, Stacey [SThompson@surrey.ca]
Sent: Tuesday, April 12, 2011 3:47 PM
To: Riedler, Harold ENV:EX; Baron, Carrie
Subject: RE: 13045 - 84 Ave Fire and runoff water

Harold,

Below is the sample locations and the pH at each site. I submitted the samples to the lab for total metals today and I should have the results tomorrow which I will forward to you. As Carrie mentioned we saw no dead or distressed fish at the sites we went to. Let me know if you require anything else.

Stacey

Sample name/location	Sampling Time	pH	Temperature (°C)
1. KGB S of 88 Ave	9:52 am	6.92	8.9
2. 132 St S of 86 Ave Ave	10:15 am	7.39	8
3. 8613 Tulsy crs	10:30 am	7.24	8.6



From: Baron, Carrie

Sent: April-12-11 2:28 PM

To: Riedler, Harold ENV:EX

Cc: Thomson, Stacey

Subject: 13045 - 84 Ave Fire and runoff water

Harold,

I had staff investigate the Bear Creek system downstream of today's fire to see if the fire runoff waters had an effect on the receiving waters.

Stacey Thomson and Alyssa Myrvold of my staff checked the creek at key points. They told me they saw no dead or distressed fish at the sites they went to.

They had a portable pH meter and tested for pH at all sites and collected water samples at 3 sites. The pH was found to be around 6-7. The samples were recently dropped off at the lab with a "rush" placed on analysis. We are having the water samples tested for metals.

Stacey can send you a copy of a map showing where she sampled and the pH readings at each site. We will also pass on the laboratory results when we receive them.

Let me know if you require more information. Stacey is currently at the lab so expect further details either later today or early tomorrow morning.

Carrie

Riedler, Harold ENV:EX

From: Knox, Graham ENV:EX
Sent: Tuesday, April 12, 2011 12:07 PM
To: ENV !Emergency Incident Contacts
Cc: Fuller, Ryan ENV:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - April 12, 2011 @ 12:06

Importance: High

Greetings,

We have received the following information regarding an incident at an electroplating facility resulting from a fire in Surrey this morning:

- A fire has occurred at unit 101, 13045 – 84th Avenue, in Surrey (Precision Plating Ltd. – Responsible Party).
- Fire suppression sprinkler activation resulted in the overflow of electroplating solution from the facility.
- Electroplating solution includes Chromic acid, Sulphuric acid and Nickel plating solution.
- The contaminated runoff has spread through the 15 unit facility (a business complex) and into a tributary of Bear creek (high fisheries values).
- All 15 units have been evacuated due to the presence of toxic materials.
- PH is a concern as well as heavy metal toxicity (Nickel and Chromium) to aquatic life in the creek.
- Chromic acid can result in fire when comes into contact with organic materials creating an additional fire hazard.
- Surrey fire department, Fraser Health, Worksafe BC, are all on scene at this time.
- City of Surrey and Metro Vancouver environmental staff are on scene to inspect (no fish kills noted at this time) and sample the creek, and address related facility permit issues respectively.
- Hazco response contracting is on scene to initiate external cleanup activities.
- Insurance company representatives for both the Responsible Party and the Strata Council (for the complex) are on scene.
- The Responsible Party has been advised by ministry staff to retain an industrial hygienist and a hazardous waste cleanup contractor, and initiate an Environmental Impact Assessment.
- Our 2 Lower mainland Environmental Emergency Response Officers are currently on scene.

Additional information will be provided as the incident unfolds.

Thank you,

Graham Knox
Manager, Environmental Emergency Program
BC Ministry of Environment
P.O. Box 9342, Stn Prov Govt
Victoria, BC V8W 9M1
Phone: (250) 356-8383
Fax: (250) 953-3856
Email: Graham.Knox@gov.bc.ca
Website: <http://www.env.gov.bc.ca/eemp>

Riedler, Harold ENV:EX

From: Thomson, Stacey [SThompson@surrey.ca]
Sent: Tuesday, April 12, 2011 3:47 PM
To: Riedler, Harold ENV:EX; Baron, Carrie
Subject: RE: 13045 - 84 Ave Fire and runoff water

Harold,

Below is the sample locations and the pH at each site. I submitted the samples to the lab for total metals today and I should have the results tomorrow which I will forward to you. As Carrie mentioned we saw no dead or distressed fish at the sites we went to. Let me know if you require anything else.

Stacey

Sample name/location	Sampling Time	pH	Temperature (°C)
1. KGB S of 88 Ave	9:52 am	6.92	8.9
2. 132 St S of 86 Ave Ave	10:15 am	7.39	8
3. 8613 Tulsy crs	10:30 am	7.24	8.6



Engineering Department
14245 56th Ave, Surrey, BC, Canada V3X 3A2
T 604 591-4321 | F 604 591 8693 | SThomson@surrey.ca

From: Baron, Carrie
Sent: April-12-11 2:28 PM
To: Riedler, Harold ENV:EX
Cc: Thomson, Stacey
Subject: 13045 - 84 Ave Fire and runoff water

Harold,

I had staff investigate the Bear Creek system downstream of today's fire to see if the fire runoff waters had an effect on the receiving waters.

Stacey Thomson and Alyssa Myrvold of my staff checked the creek at key points. They told me they saw no dead or distressed fish at the sites they went to.

They had a portable pH meter and tested for pH at all sites and collected water samples at 3 sites. The pH was found to be around 6-7. The samples were recently dropped off at the lab with a "rush" placed on analysis. We are having the water samples tested for metals.

Stacey can send you a copy of a map showing where she sampled and the pH readings at each site. We will also pass on the laboratory results when we receive them.

Let me know if you require more information. Stacey is currently at the lab so expect further details either later today or early tomorrow morning.

Carrie

Riedler, Harold ENV:EX

From: CANUTEC, Asd [-.CANUTECAsd@tc.gc.ca]
Sent: Tuesday, April 12, 2011 8:29 PM
To: Riedler, Harold ENV:EX
Subject: MSDS Chromic acid
Attachments: Chromic Acid Solution.pdf

Hi Mr. Riedler,

As mentioned on the phone, here is a good general MSDS for chromic acid.

Best regards,

Denis Foisy

Biochimiste - Conseiller en intervention d'urgence / Biochemist-
Emergency Response Advisor

CANUTEC, Transports Canada | Place de Ville, Ottawa (Ontario) K1A 0N5

(613) 992-4624 | télécopieur / facsimile (613) 954-5101

denis.foisy@tc.gc.ca

www.canutec.gc.ca

Gouvernement du Canada | Government of Canada

CHROMIC ACID SOLUTION

Class 8 (Corrosive Material)

GENERAL INFORMATION

Chromic acid is a dark red or orange, odorless liquid used for chrome plating, the manufacture of inks, paints and other chemicals, process engraving, anodizing and a variety of other purposes. Its percentages for commercial products range from 29% to 60% chromium trioxide. Due to the wide range of percentages, the specific gravity of the solution will change but will always be heavier than water with a low vapor pressure. Also due to the percentage difference, the boiling, melting and freezing points will vary. The boiling point will be higher than water and will increase with higher percentage of chromium trioxide and the melting point will be lower than water and decreased as percentage of chromium trioxide is increased. It is soluble in all proportions with water and may evolve heat. Chromic acid solution has a reported value for pH between 0.2 and 2.0. It is highly corrosive to many metals.

NIOSH lists chromic acid as a potential occupational carcinogen. It is considered hazardous through all routes of entry. Although it is not flammable it contributes to the combustibility of other materials and it can ignite combustible materials due to its powerful oxidizing capability. It is stable although there are numerous incompatible materials. Explosions can occur in contact with reducing agents, acetic acid or anhydrides, acetone, methyl alcohol, phosphorous, potassium, ferricyanide, pyridine and sulfur. Toxic chromium fumes may be emitted if exposed to fire and the decomposing material may form a hot viscous foam. Caution should be used to prevent a steam explosion where water is used to fight fires.

CHEMICAL/PHYSICAL DATA

Solubility in Water: Soluble in all proportions

Solubility in Other Chemicals: Chromium trioxide anhydrous is soluble in ethanol, ethyl ether, sulfuric and nitric acids.

Specific Gravity: 1.26 for 30% solution; 1.663 for 60% solution.

Vapor Density: Unavailable

Boiling Point: 250°C (482°F)

Melting Point: <-9.4°C (15°F)

Molecular Weight: 118.0

Vapor Pressure: Very low

Flash Point: Not flammable

Autoignition Temperature: Not flammable

Flammable Limits: Not flammable

Stability: Stable

Polymerization Potential: Will not occur

pH: 1.1 in a 1% solution at 25°C (77°F); one source reports 0.2-2.0 for 1% solution

Corrosiveness: Corrosive to steel, iron, copper, bronze, brass, nickel, aluminum, and silver.

Reactivity and Incompatibility: Reacts with heat, acids, phosphorus, arsenic, ammonia, hydrogen sulfide, potassium, sodium selenium, dimethylformamide, alkalis, metals. Avoid contact with oils and greases or any organic or easily oxidizable material. Dangerous ignition hazards occur when contacted with methanol, ethanol, butanol, isobutanol, acetaldehyde, propionaldehyde, butyraldehyde, benzaldehyde, acetic acid, pelargonic acid, ethyl acetate, isopropyl acetate, pentyl acetate, diethyl ether, methyldioxane, dimethyldioxane, acetone and benzylethylaniline. May attack some forms of plastics, rubbers and coatings.

Reactivity with Water: May produce heat.

Other Characteristics: Strong oxidizing agent. Will promote combustion.

IDENTIFICATION

Shipping Name(s): Chromic acid solution (USDOT & IMO)

Synonyms and Tradenames: Chromic (VI) acid; Chromium oxide; Chromium (VI) oxide; Chromium trioxide; Chromium (6+) trioxide; Monochromium oxide; Monochromium trioxide.

CAS Registry No: 1308-14-1

Chemical Formula: H₂CrO₄

Constituent Components (% each): Reports vary from 29% to 60% in water for commercial shipments.

UN/NA Designation: UN1755

IMO Designation: 8

RTECS Number: GB6650000

NFPA 704 Hazard Rating: 3 (Health): 0 (Flammability): 1 (Reactivity)

Physical Form as Shipped: Liquid

Physical Form as Released: Liquid

Color of the Shipped Material: Dark red or orange solution; one source reports it to be a clear liquid.

Odor Characteristics: Odorless

Reportable Quantity: See appendix I

Common Uses: Wood treating, copper stripping, aluminum anodizing, as a catalyst, refractories, in organic synthesis, photography, metal finishing, plating, leather industries, pigments, and used in many reactions for production or purification of chemicals.

ADDITIONAL INFORMATION AND ASSISTANCE: FOR 24-HOUR TECHNICAL SUPPORT FOR ACCIDENTS INVOLVING SPILLS, LEAKS, FIRES OR EXPOSURES TO CHEMICALS, CONTACT CHEMTREC AT (800) 424-9300 OR (703) 527-3887 (COLLECT).



CHROMIC ACID SOLUTION

Class 8 (Corrosive Material)



POTENTIAL HAZARDS

GENERAL HAZARDS

Threshold Odor Concentration: Odorless

Unusual Hazards: NIOSH lists chromic acid as a potential occupational carcinogen. It is corrosive to the eyes, skin and respiratory tract. May cause liver damage or be fatal if swallowed, inhaled or absorbed through the skin. Noncombustible, but will accelerate the burning of combustible materials. Powerful oxidizer.

Short Term Exposure Limit (STEL): Unavailable

Time Weighted Average (TLV-TWA): .001 mgCr(IV)/m³

Ceiling (C) Limit: .1 mg/m³

IDLH: 15 mg/m³ as Cr(IV)

Conditions to Avoid: Contact with incompatible materials, organic materials, heat acids, alkalis, metals, oils, greases or any other easily oxidizable materials. Inhalation, ingestion or direct physical contact.

HEALTH HAZARDS

Potential Health Hazards: Routes of exposure are through ingestion, inhalation and eye and skin contact. NIOSH lists chromic acid as a potential occupational carcinogen. It causes severe burns upon contact, kidney failure and, in large enough doses, can cause death.

Hazards of Skin or Eye Contact: Overexposure to the eyes can cause severe burns, conjunctivitis and potential permanent damage. Contact with skin can cause severe burns. If contact is with broken skin there may be formation of firmly margined "chrome sores". May, in rare situations, cause allergic contact dermatitis. Dermal absorption of large amounts may lead to kidney failure and death.

Hazards of Inhalation: Inhalation of vapor, mist or liquid may cause burns of the respiratory tract and perforation of the nasal septum. Long term exposure can lead to respiratory cancer.

Hazards of Ingestion: Ingestion can cause severe tissue destruction. May cause liver damage, kidney failure and result in death.

FIRE HAZARDS

Lower Flammable Limit: Not flammable

Upper Flammable Limit: Not flammable

Behavior in Fire: Under fire conditions, decomposing material may form a hot viscous foam.

Hazardous Decomposition Products: At 250°C (482°F) gives off oxygen, and chromic oxide.

EXPLOSION HAZARDS

Explosive Potential: Chromic acid is noncombustible but will accelerate the burning of combustible materials. Under extreme heat it will decompose to chromic oxide and oxygen. Oxygen can then create a high combustion hazard or accelerate combustion.

PERSONAL PROTECTIVE CLOTHING AND EQUIPEMENT

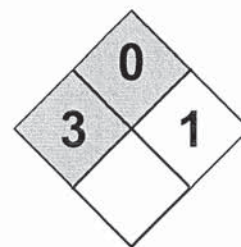
Protective Clothing Required: Emergency response personnel must wear specialized chemical protective clothing and equipment compatible with the material in uncontrolled release situations. Chemical liquid splash protective clothing (EPA Level B Protection) should be worn for spills and leaks with no fire. Structural firefighting protective clothing will provide only a limited level of personal protection for this product. Where the potential threat of direct contact with the material is low, splash-proof face shields or protective goggles, rubber boots and gloves may be worn. Compatible materials include polyvinyl chloride, nitrile rubber, polyethylene, chlorinated polyethylene and Viton®. Suitable materials for construction are Tyvek® QC and Tychem® SL (longer than 8 hours).

Respiratory Protection: Positive-pressure, self-contained breathing apparatus (SCBA) is the minimum level of respiratory protection recommended for uncontrolled release situations. NIOSH/MSHA approved air purifying respirators with an organic vapor cartridge or canister or a supplied-air respirator with eye protection may be permissible under certain circumstances such as post-emergency clean-up operation and where airborne concentrations are within the acceptable levels for their use. Protection by air purifying respirators is limited.

1755

CHROMIC ACID SOLUTION

Class 8 (Corrosive Material)



FIRST AID

Nonspecific Symptoms: Contact with eyes can cause severe burns and permanent eye damage. Skin contact can cause severe burns and in cases of large dermal absorption may lead to kidney failure and even death. Inhalation can cause burns to the respiratory tract, perforation of the nasal septum, and may lead to respiratory cancer. Ingestion can cause severe tissue damage, kidney failure, liver damage or death.

First Aid for Inhalation: Immediately remove victim to an uncontaminated environment with fresh air. If victim is not breathing, cardiopulmonary resuscitation (CPR) should be administered immediately. If the victim is breathing with difficulty, oxygen should be administered. If the patient is conscious, irrigate the nasal passages and mouth with water. Provide supportive care and seek immediate medical assistance by a physician from the nearest medical treatment facility. Decontaminate the patient thoroughly before transporting to a medical treatment facility to prevent the potential for secondary contamination.

First Aid for Skin Contact: In case of skin contact, flush with large amounts of water. Remove contaminated clothing. Provide supportive care and seek immediate medical assistance by a physician from the nearest medical treatment facility. Decontaminate the patient thoroughly before transporting to a medical treatment facility to prevent the potential for secondary contamination.

First Aid for Eye Contact: In case of eye contact, flush eyes with large amounts of water while lifting upper and lower eyelids frequently. Provide supportive care and seek immediate medical assistance by a physician from the nearest medical treatment facility. Decontaminate the patient thoroughly before transporting to a medical treatment facility to prevent the potential for secondary contamination.

First Aid for Ingestion: In case of ingestion, give large amounts of water or milk if patient is conscious. Do not induce vomiting without seeking medical advice. Provide supportive care and seek immediate medical assistance by a physician from the nearest medical treatment facility. Decontaminate the patient thoroughly before transporting to a medical treatment facility to prevent the potential for secondary contamination.

Note to Physicians: Ascorbic acid administered intravenously and locally is reported to be an effective antidote (converting C6 to C3) in preventing renal tubular failure.

FIRE RESPONSE

Extinguishing Agents: Since material will not burn, select appropriate agent for surrounding fire. Chromic acid solution can generate oxygen to accelerate combustion. Water or foam is not recommended since water can cause a steam explosion, especially in a confined area and adding water will not significantly change the pH.

Extinguishing Techniques: Secure ignition sources in the immediate spill area and down wind. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Wear appropriate level of personal protective clothing and equipment. Stop flow if it can be accomplished safely. Use water to protect exposures or prevent containers from failing. Do not flood spill material with water since it does not significantly reduce the pH. Fight fire from maximum distance. For massive fires in cargo area, use unmanned master stream devices. If this is not feasible, withdraw from area and allow fire to burn out. Immediately withdraw in the event that rising sounds from venting safety devices are heard, or any discoloration of the tank shell is observed. Containers exposed to prolonged fire or heat may rupture violently, particularly the ends, and travel considerable distances. Dike fire control water for proper disposal since it may contain toxic gases.

SPILL RESPONSES

General Information: Chromic acid is a highly toxic and corrosive liquid that may cause environmental contamination. Secure potential sources of heat, sparks, flame, impact, friction and electricity in the immediate spill area and downwind. Restrict access to area. Keep unprotected personnel upwind of spill area. Avoid contact with spilled product. Do not walk through spilled material. Personnel must wear the appropriate level of personal protective clothing and equipment for spill response operations. Stop or control the leak if it can be accomplished safely. Compatibility of vacuum trucks and equipment must be determined prior to commencing clean-up operations. Water spray may be used to reduce the generation of vapors. Prevent substance from entering sewers, waterways and confined spaces. Underflow dams are not an effective means to dike material since it mixes with water and is heavier than water. As a result, recovery efforts from water borne releases are difficult. Runoff may be toxic and/or corrosive. Establish a decontamination area remote from the

CHROMIC ACID SOLUTION

Class 8 (Corrosive Material)

contaminated zone. Ensure that all protective clothing and equipment is isolated for disposal or cleaning. Ensure proper decontamination of emergency personnel before they leave the scene. For example, liquid and vapors can saturate protective clothing and be carried off-site. Personnel should monitor for the presence of hazardous vapors before removing respiratory protection equipment. Use a massive rinse on the outer shell of protective clothing. Personal protective equipment contaminated with strong chromic acid can self-ignite after it dries, especially if previously contaminated with oil or grease. Maintain respiratory protection throughout the decontamination process. Dispose of contaminated material as soon as possible in accordance with applicable local, state and federal environmental regulations. Consult environmental specialists for assistance, as needed.

AIR SPILL

TECHNIQUE

EVACUATION . . . As a general precaution, isolate the immediate area in all directions if a bulk container of the liquid is involved. Consult with local officials to determine the extent to which evacuation or protection-in-place procedures may be warranted. Considerations include: the magnitude of the release, the potential exposures and their proximity to the source of the release, the potential for the release to migrate toward populated areas, the time of day, the resources available to assist in evacuation efforts, and the available safe locations to house evacuees.

CONSEQUENCE

Hazardous concentrations of material may concentrate in the immediate spill area and downwind if there is a large spill or the material is involved in a fire.

MITIGATION

Evacuate the immediate area and downwind of the site of the release as conditions warrant to allow vapors to dissipate. Personnel should conduct periodic air monitoring of the area to determine if concentrations exist and when conditions are safe to reenter the area. Consult with local officials to determine the extent to which evacuation or protection-in-place procedures may be warranted.

TECHNIQUE

MONITOR THE SITUATION . . . Chromic acid solution is not expected to evolve large amounts of hazardous airborne contaminants. Depending on the magnitude of the release, toxic concentrations may take several hours to dissipate. The time frame would depend on the size of the release and atmospheric conditions. Continuous air monitoring of the immediate area and downwind should be conducted to monitor for the presence of hazardous concentrations toxic vapors.

CONSEQUENCE

Hazardous concentrations of material may concentrate in the immediate spill area and downwind. Vapors may accumulate in low laying and enclosed areas.

MITIGATION

Evacuate the immediate area and downwind of the site of the release as conditions warrant and allow vapors to dissipate. Personnel should conduct periodic air monitoring of the area to determine if toxic concentrations exist and when conditions are safe to reenter the area. Consult environmental specialists for assistance, as needed.

LAND SPILL

TECHNIQUE

CONTAINMENT DIKES . . . If released to soil, material may undergo extensive leaching (moist soil), possibly contaminating ground water supplies. Building dikes or barriers using soil, sand or other related materials may contain spills of material. Where liquids are likely to come in contact with water from runoff or rain, containment barriers can be used to prevent the migration of the spill so that excavation of the contaminated area can be completed.

CONSEQUENCE

Material is mobile in soil and may seep through dike material, which may result in loss of contained product and spread of contamination.

MITIGATION

Remove material from contaminated area as quickly as possible to prevent possible contamination beyond the spill area. The integrity of dikes should be monitored periodically since they may fail over time. Be alert to conditions such as increasing spill volume with runoff or rainwater which may overflow diked areas. If possible, containment areas should be lined with suitable, impervious material to prevent penetration into soil.

CHROMIC ACID SOLUTION

Class 8 (Corrosive Material)

TECHNIQUE

EXCAVATION . . . Spills of material may be contained by building trenches or ditches.

CONSEQUENCE

Material may leach into soil. Deep excavations may increase the potential for groundwater contamination in some areas. This may result in loss of contained product and spread of contamination.

MITIGATION

Remove material from contaminated area as quickly as possible to prevent possible contamination beyond the spill area. Be alert to condition such as increasing spill volume with runoff or rain water which may overflow diked areas. If possible, containment areas should be lined with suitable, impervious material to prevent penetration into soil.

TECHNIQUE

PUMPING/VACUUM SUCTION . . . Spilled material contained in diked areas may be recovered using compatible hoses, pumps and vacuum trucks.

CONSEQUENCE

Equipment that is not compatible with the spilled product may become damaged and present a safety hazard for response personnel. Mechanical equipment will become contaminated with removed product.

MITIGATION

Use equipment constructed of materials compatible with the spilled product. Decontaminate equipment.

TECHNIQUE

ABSORPTION . . . Spreading of solution may be controlled by absorbing liquid with sand, earth, clay, fly ash, cement powder or other compatible substances.

CONSEQUENCE

Once used, sorbent materials pose the same hazards as the spilled product. Their use adds to the overall volume of contaminated material.

MITIGATION

Deplete accumulated liquid pools with pumps or vacuum trucks if possible before applying sorbents. Remove contaminated sorbents to safe storage by mechanical means. Where necessary, neutralize sorbents under guidance of qualified expert.

TECHNIQUE

MECHANICAL REMOVAL . . . Soil contaminated with spilled material may be removed by shovels, as well as a variety of heavy equipment such as backhoes and loaders.

CONSEQUENCE

Mechanical equipment used in clean-up operations may become contaminated and present a safety and/or health hazard to response personnel.

MITIGATION

Use equipment constructed of materials compatible with the spilled product. Decontaminate equipment.

TECHNIQUE

NEUTRALIZATION . . . Application of an appropriate neutralization agent may modify the spilled product to a less hazardous substance.

CONSEQUENCE

Application and removal of chemical agents involves additional environmental risks and may need special approval from regulatory agencies.

MITIGATION

Consult qualified experts for safe neutralization techniques. Consider treating water using a processing system constructed on land.

CHROMIC ACID SOLUTION

Class 8 (Corrosive Material)

WATER SPILL

TECHNIQUE

STOP USE . . . Notify downstream industrial, municipal and public users to stop water intake or to monitor water for contamination.

CONSEQUENCE

Alternative water supplies may need to be established. Consult environmental specialists for assistance, as needed.

MITIGATION

Provide alternative water supplies as needed until water supply is declared safe.

TECHNIQUE

NEUTRALIZATION . . . Application of a suitable neutralization agent to the contaminated water may reduce environmental hazards.

CONSEQUENCE

Some neutralization agents are themselves hazardous and must be handled with care. Improper application may lead to increased damage or harm.

MITIGATION

Consult qualified experts for safe neutralizing techniques. Consider treating water using a processing system constructed on land.

TECHNIQUE

AERATION . . . Water containing dissolved chemicals may be decontaminated to some degree by aeration, air stripping or air sparging techniques. These involve the use of air compressors and perforated piping to bubble large quantities of air through the contaminated water body.

CONSEQUENCE

The air bubbles entering the atmosphere will be contaminated with the same amount of chemical vapors if the technique is effective.

MITIGATION

Consult qualified experts for advice and assistance in obtaining and developing necessary equipment. Apply alternative techniques where air emissions may pose a downwind hazard.

TECHNIQUE

ADSORPTION . . . Addition of activated carbon or peat moss to the contaminated water, followed by effective mixing, may capture spilled product that has dissolved in water. Adsorbent material may later be removed by mechanical means.

CONSEQUENCE

Recovery of activated carbon may require dredging in a process that poses risk of environmental damage.

Recovered adsorbent materials will be contaminated with spilled product, as may recovery equipment.

MITIGATION

Consult qualified experts for safe adsorption techniques. Consider pumping water through tank containing adsorbent on land. Handle and store recovered materials safely. Decontaminate equipment as necessary.

Riedler, Harold ENV:EX

From: Environmental Emergencies Spill Reports ENV:EX [EESR@gov.bc.ca]
Sent: Tuesday, April 12, 2011 11:26 PM
To: Riedler, Harold ENV:EX
Subject: FW: DGIR 110134 UPDATE 3 - SWE

From: SGPEP.ECC1@gov.bc.ca[SMTP:SGPEP.ECC1@GOV.BC.CA]
Sent: Tuesday, April 12, 2011 11:25:32 PM
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 110134 UPDATE 3 - SWE
Auto forwarded by a Rule

Incident Date/Time: 2011-04-12 5:56

Location: 13045 84TH AVE
Area: SURREY
PEP Region: SWE
MOE Region: Lower Mainland Region

Caller / Agency: BY EMAIL - HAROLD RIEDLER MOE RO

Details: Complete evacuation of the 15 businesses within the subject strata owned building will remain in effect for April 13, 2011. Spilled chromic acid solution within the Precision Plating unit has spread to numerous other units within the building.. The acid solution has soaked carpeting and other potential organic materials. Chromic acid can spontaneously catch fire in contact with organic material. Hazco has successfully remediated the spilled material on the asphalt tarmac, outside the Precision Plating unit before the current rainfall. Hazco is currently documenting the extent of contamination within the impacted strata units and will proceed with acid neutralization to prevent any further chemical reaction or fire by hopefully 0700 hours, April 13th. A second Hazco shift will then be brought-in to continue with remediation. A contingency plan has been developed in consultation with the Surrey Fire Department should a reaction and fire occur during this response to ensure minimal impact to human health and the environment. City of Surrey Environment Department's monitoring did not find visual evidence of an impact to the receiving tributary of Bear Creek. The City of Surrey obtained creek samples and will have preliminary results available @ the end of the April 13th work day. BC MOE Senior Emergency Response Officer, H. Riedler, will continue to monitor the response and provide assistance as required to advance the remediation process.
There is no media attention to this matter to date.

Report Compiled By: JIM Operations 2 ECC - 2011-04-12 22:58 DGIR 110134 UPDATE 3 Subject: INLAND UPDATE

Environmental Emergency Response Officer:

Date:

Notification Coding: Code 1 / Code 2

MOE Response: Exercise / Potential / No Field Response / Field Response / IMT Activation

Notes:

Riedler, Harold ENV:EX

From: Barton, Shawn [SBarton@hazco.com]
Sent: Wednesday, April 13, 2011 12:56 AM
To: Riedler, Harold ENV:EX
Subject: Fw: Standown 00:45 april 13/11

Sorry, wrong adress

Shawn Barton, RSO | Project Manager, Emergency Response and Confined Space Entry HAZCO
Environmental Services, A CCS Company
13511 Vulcan Way,
Richmond, BC V6V-1K4

604.214.7000 Office

s.22

604.214.7017

Fax

SBarton@hazco.com

www.hazco.com

----- Original Message -----

From: Barton, Shawn

To: 'alfmarchi@paragonrealty.ca' <alfmarchi@paragonrealty.ca>;
'greg@canstarrestorations.com' <greg@canstarrestorations.com>; 'harold.reidler@gov.bc.ca'
<harold.reidler@gov.bc.ca>

Cc: s.22

Sent: wed Apr 13 01:55:46 2011

Subject: Standown 00:45 april 13/11

Gentlemen

We have egressed the site for the balance of the night in light of a safety concern that has rendered the site unsafe until daylight hours. Several 600V stepdown transformers have been discovered within arcing distance of the product flow, producing a potential ground gradient throughout the worksite. I have requested power disconnect from BC Hydro and this has been performed at approx 00:22.

I have briefed Surrey fire dispatch and they are aware that this site will be left as high hazard for an oxidizing reaction/fire.

I intend to have our crew return to site following a rest cycle and propose a noon start. Please feel free to contact me with any questions or concerns.

This is an unfortunate delay, but we cannot put workers in an unsafe environment. The lighting and traction issues interior, coupled with the already present chemical hazards force my hand. We must do what is needed to accomplish this stabilization safely.

Thank you,

Shawn Barton, RSO | Project Manager, Emergency Response and Confined Space Entry HAZCO
Environmental Services, A CCS Company
13511 Vulcan Way,
Richmond, BC V6V-1K4

604.214.7000 Office

s.22

This email and any files transmitted with it are solely intended for the use of the addressee(s) and may contain information that is confidential and privileged. If you receive this email in error, please advise us by return email immediately. Please also disregard the contents of the email, delete it and destroy any copies immediately. CCS Corporation and its subsidiaries do not accept liability for the views expressed in the email or for the consequences of any malicious code that may be transmitted with this email.

This email is also subject to copyright. No part of it should be reproduced, adapted or transmitted without the written consent of the copyright owner.

CCS-06-01-2009

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 13, 2011 6:44 PM
To: ENV !Emergency Incident Contacts
Cc: Knox, Graham ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd. Chromic Acid Spill, Surrey - April 13, 2011 @ 1510 hours Update.

We have received the following information regarding progress made in response to the subject incident.

- The hazardous waste remediation company, Hazco Environmental, has completed neutralization of acid contamination within impacted Units next to the responsible party's Unit in the commercial strata complex @ 13045 84th Avenue, Surrey. The responsible party is Precision Plating Ltd. that operates within Unit 101.
- Power to the entire building remains off as electrical transformers still rest within the pooled waste chromic acid solution in the responsible party's Unit.
- Hazco Environmental Service will pump out pooled plating solutions that are outside of containment and will treat contaminated surfaces with neutralizing agent in preparation for removal and disposal by as early as noon, April 14th.
- A Certified Industrial Hygienist (CIH) will be retained by the building strata management to determine what conditions need to be met and/or what further remedial action will be required to allow reoccupation based on the CIH assessment of each individual unit.
- No reoccupation will occur before April 15, 2011 and any reoccupation will also require the approval from the Surrey Fire Department.
- An environmental consultant will be retained to assess the environmental impact and identify required remedial measures to protect human health and the environment.
- Several potential unauthorized hazardous waste and industrial waste discharge activities were observed in other commercial strata units during the response to the subject incident. These discharges were observed to occur from commercial operations that back on to a creek with high fisheries resource. Therefore, staff from Environment Canada, MOE Environmental Protection and MOE Environmental Emergencies Management Program will conduct an unannounced inspection of operations within this general commercial area during the morning of April 14, 2011.
- A MOE Environmental Emergency Response Officer will continue to monitor the remedial measures taken by and on behalf of the responsible party.
- The Code 2 designation will remain in effect until the EERO's discussions with the CIH and Fire Department find remedial measures have met conditions to rescind the evacuation.
- Daily updates will be provided until clearance for reoccupying the strata building is granted.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Tuesday, April 12, 2011 10:57 PM
To: SG PEP ECC1 SG:EX
Cc: Fuller, Ryan ENV:EX; Knox, Graham ENV:EX; 'kevin.li@fraserhealth.ca'
Subject: Update - Code 2 : Precision Plating Ltd. chromic acid spill @ 13045 84 Ave., Surrey.

Complete evacuation of the 15 businesses within the subject strata owned building will remain in effect for April 13, 2011. Spilled chromic acid solution within the Precision Plating unit has spread to numerous other units within the building.. The acid solution has soaked carpeting and other potential organic materials. Chromic acid can spontaneously catch fire in contact with organic material. Hazco has successfully remediated the spilled material on the asphalt tarmac, outside the Precision Plating unit before the current rainfall. Hazco is currently documenting the extent of contamination within the impacted strata units and will proceed with acid neutralization to prevent any further chemical reaction or fire by hopefully 0700 hours, April 13th. A second Hazco shift will then be brought-in to continue with remediation. A contingency plan has been developed in consultation with the Surrey Fire Department should a reaction and fire occur during this response to ensure minimal impact to human health and the environment. City of Surrey Environment Department's monitoring did not find visual evidence of an impact to the receiving tributary of Bear Creek. The City of Surrey obtained creek samples and will have preliminary results available @ the end of the April 13th work day. BC MOE Senior Emergency Response Officer, H. Riedler, will continue to monitor the response and provide assistance as required to advance the remediation process.

Riedler, Harold ENV:EX

From: Environmental Emergencies Spill Reports ENV:EX [EESR@gov.bc.ca]
Sent: Tuesday, April 12, 2011 11:26 PM
To: Riedler, Harold ENV:EX
Subject: FW: DGIR 110134 UPDATE 3 - SWE

From: SGPEP.ECC1@gov.bc.ca[SMTP:SGPEP.ECC1@GOV.BC.CA]
Sent: Tuesday, April 12, 2011 11:25:32 PM
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 110134 UPDATE 3 - SWE
Auto forwarded by a Rule

Incident Date/Time: 2011-04-12 5:56

Location: 13045 84TH AVE
Area: SURREY
PEP Region: SWE
MOE Region: Lower Mainland Region

Caller / Agency: BY EMAIL - HAROLD RIEDLER MOE RO

Details: Complete evacuation of the 15 businesses within the subject strata owned building will remain in effect for April 13, 2011. Spilled chromic acid solution within the Precision Plating unit has spread to numerous other units within the building.. The acid solution has soaked carpeting and other potential organic materials. Chromic acid can spontaneously catch fire in contact with organic material. Hazco has successfully remediated the spilled material on the asphalt tarmac, outside the Precision Plating unit before the current rainfall. Hazco is currently documenting the extent of contamination within the impacted strata units and will proceed with acid neutralization to prevent any further chemical reaction or fire by hopefully 0700 hours, April 13th. A second Hazco shift will then be brought-in to continue with remediation. A contingency plan has been developed in consultation with the Surrey Fire Department should a reaction and fire occur during this response to ensure minimal impact to human health and the environment. City of Surrey Environment Department's monitoring did not find visual evidence of an impact to the receiving tributary of Bear Creek. The City of Surrey obtained creek samples and will have preliminary results available @ the end of the April 13th work day. BC MOE Senior Emergency Response Officer, H. Riedler, will continue to monitor the response and provide assistance as required to advance the remediation process.
There is no media attention to this matter to date.

Report Compiled By: JIM Operations 2 ECC - 2011-04-12 22:58 DGIR 110134 UPDATE 3 Subject: INLAND UPDATE

Environmental Emergency Response Officer:
Date:
Notification Coding: Code 1 / Code 2
MOE Response: Exercise / Potential / No Field Response / Field Response / IMT Activation
Notes:

Riedler, Harold ENV:EX

From: SG PEP ECC1 SG:EX
Sent: Wednesday, April 13, 2011 12:40 AM
Subject: DGIR 110134 Acid mixture - SURREY.pdf - Adobe Acrobat Standard



DGIR 110134 Acid
mixture - SU...



DGIR Incident Update Report
DGIR 110134



Update #: 4

Type : INLAND UPDATE
Subject : ACID MIXTURE (CODE 2)
Task # : 120335
Assigned To : ED STOCKERL
Incident Area : SURREY

Original Entry Logged : 2011-04-12 05:56
Amount : \$50
ASE Number :
PEP Region : SWE
MOE Region : Lower Mainland Region
MCTS# :

Location : 13045 84TH AVE
Caller : BY EMAIL - HAROLD RIEDLER
Organization : MOE
Primary No :
Alt No :

This Update Logged : 2011-04-13 00:37
PEP Duty Officer : JIM

Details :

Shawn Barton, Project Coordinator, Hazco Environmental advised H. Riedler, BCMOE SERO of the following at 0005 hours, April 13th. Hazco employees discovered a series of large power transformers that rest in approximately 2 cm of pooled waste chromic acid solution within the impacted building. This presents a very high risk to worker safety as the chromic acid solution has a high conductivity and therefore power must be shut-off to the entire building. This presents visibility challenges while attempting to stabilize the spilled chemical. There are too many dark aisles and tight spaces where imported lighting could not effectively provide safe visibility for a continued night response. Therefore, Hazco will commence operations at 1000 hours, April 3rd. The fire department & property management will be advised that the building will remain at a high risk status until work can continue during daylight hours. An emergency response contingency plan remains in place including around the clock security for fire watch and trespass prevention. The extent of damage to the building associated with the spilled material was found to be considerable and mitigation that will allow partial reoccupation of the building is not anticipated to be complete before April 15th (rough estimate at this time).

Notification :

00:38 emailed Code 2 dist list; Wayne Hirlehey PS

Riedler, Harold ENV:EX

From: Environmental Emergencies Spill Reports ENV:EX [EESR@gov.bc.ca]
Sent: Wednesday, April 13, 2011 2:29 AM
To: Riedler, Harold ENV:EX
Subject: FW: DGIR 110134 UPDATE 4 - SWE

From: SGPEP.ECC1@gov.bc.ca[SMTP:SGPEP.ECC1@GOV.BC.CA]
Sent: Wednesday, April 13, 2011 2:28:31 AM
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 110134 UPDATE 4 - SWE
Auto forwarded by a Rule

Incident Date/Time: 2011-04-12 5:56

Location: 13045 84TH AVE
Area: SURREY
PEP Region: SWE
MOE Region: Lower Mainland Region

Caller / Agency: BY EMAIL - HAROLD RIEDLER MOE

Details: Shawn Barton, Project Coordinator, Hazco Environmental advised H. Riedler, BCMOE SERO of the following at 0005 hours, April 13th. Hazco employees discovered a series of large power transformers that rest in approximately 2 cm of pooled waste chromic acid solution within the impacted building. This presents a very high risk to worker safety as the chromic acid solution has a high conductivity and therefore power must be shut-off to the entire building. This presents visibility challenges while attempting to stabilize the spilled chemical. There are too many dark aisles and tight spaces where imported lighting could not effectively provide safe visibility for a continued night response. Therefore, Hazco will commence operations at 1000 hours, April 13rd. The fire department & property management will be advised that the building will remain at a high risk status until work can continue during daylight hours. An emergency response contingency plan remains in place including around the clock security for fire watch and trespass prevention. The extent of damage to the building associated with the spilled material was found to be considerable and mitigation that will allow partial reoccupation of the building is not anticipated to be complete before April 15th (rough estimate at this time).

Report Compiled By: JIM Operations 2 ECC - 2011-04-13 0:37 DGIR 110134 UPDATE 4 Subject: INLAND UPDATE

Environmental Emergency Response Officer:
Date:
Notification Coding: Code 1 / Code 2
MOE Response: Exercise / Potential / No Field Response / Field Response / IMT Activation
Notes:

Fuller, Ryan ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 13, 2011 11:55 AM
To: Fuller, Ryan ENV:EX
Subject: FW: 13045 - 84 Ave Fire and runoff water
Attachments: image001.png

FYI

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Thomson, Stacey [<mailto:SThompson@surrey.ca>]
Sent: Tuesday, April 12, 2011 3:47 PM
To: Riedler, Harold ENV:EX; Baron, Carrie
Subject: RE: 13045 - 84 Ave Fire and runoff water

Harold,

Below is the sample locations and the pH at each site. I submitted the samples to the lab for total metals today and I should have the results tomorrow which I will forward to you. As Carrie mentioned we saw no dead or distressed fish at the sites we went to. Let me know if you require anything else.

Stacey

Sample name/location	Sampling Time	pH	Temperature (°C)
1. KGB S of 88 Ave	9:52 am	6.92	8.9
2. 132 St S of 86 Ave	10:15 am	7.39	8
3. 8613 Tulsy crs	10:30 am	7.24	8.6



Stacey Thomson | Environmental Technologist

Engineering Department

14245 56th Ave, Surrey, BC, Canada V3X 3A2

T 604 591 4371 | F 604 591 3693 | SThomson@surrey.ca

From: Baron, Carrie

Sent: April-12-11 2:28 PM

To: Riedler, Harold ENV:EX

Cc: Thomson, Stacey

Subject: 13045 - 84 Ave Fire and runoff water

Harold,

I had staff investigate the Bear Creek system downstream of today's fire to see if the fire runoff waters had an effect on the receiving waters.

Stacey Thomson and Alyssa Myrvold of my staff checked the creek at key points. They told me they saw no dead or distressed fish at the sites they went to.

They had a portable pH meter and tested for pH at all sites and collected water samples at 3 sites. The pH was found to be around 6-7. The samples were recently dropped off at the lab with a "rush" placed on analysis. We are having the water samples tested for metals.

Stacey can send you a copy of a map showing where she sampled and the pH readings at each site. We will also pass on the laboratory results when we receive them.

Let me know if you require more information. Stacey is currently at the lab so expect further details either later today or early tomorrow morning.

Carrie

Riedler, Harold ENV:EX

From: SG PEP ECC1 SG:EX
Sent: Tuesday, April 12, 2011 11:05 PM
Subject: DGIR 110134 - Acid Mixture - SURREY.pdf - Adobe Acrobat Standard



DGIR 110134 -
Acid Mixture - S...



DGIR Incident Update Report
DGIR 110134



Update #: 3

Type : INLAND UPDATE
Subject : ACID MIXTURE (CODE 2)
Task # : 120335
Assigned To : ED STOCKERL
Incident Area : SURREY

Original Entry Logged : 2011-04-12 05:56
Amount : \$50
ASE Number :
PEP Region : SWE
MOE Region : Lower Mainland Region
MCTS# :

Location : 13045 84TH AVE
Caller : BY EMAIL - HAROLD RIEDLER
Organization : MOE RO
Primary No :
Alt No :

This Update Logged : 2011-04-12 22:58
PEP Duty Officer : JIM

Details :

Complete evacuation of the 15 businesses within the subject strata owned building will remain in effect for April 13, 2011. Spilled chromic acid solution within the Precision Plating unit has spread to numerous other units within the building.. The acid solution has soaked carpeting and other potential organic materials. Chromic acid can spontaneously catch fire in contact with organic material. Hazco has successfully remediated the spilled material on the asphalt tarmac, outside the Precision Plating unit before the current rainfall. Hazco is currently documenting the extent of contamination within the impacted strata units and will proceed with acid neutralization to prevent any further chemical reaction or fire by hopefully 0700 hours, April 13th. A second Hazco shift will then be brought-in to continue with remediation. A contingency plan has been developed in consultation with the Surrey Fire Department should a reaction and fire occur during this response to ensure minimal impact to human health and the environment. City of Surrey Environment Department's monitoring did not find visual evidence of an impact to the receiving tributary of Bear Creek. The City of Surrey obtained creek samples and will have preliminary results available @ the end of the April 13th work day. BC MOE Senior Emergency Response Officer, H. Riedler, will continue to monitor the response and provide assistance as required to advance the remediation process.
There is no media attention to this matter to date.

Notification :

23:01 emailed code 2 dist list, Wayne Hirlehey PS

Riedler, Harold ENV:EX

From: SG PEP ECC1 SG:EX
Sent: Wednesday, April 13, 2011 1:34 AM
Subject: Corrected update - Please disregard the previous one



DGIR 110134 -
Acid mixture - S...



DGIR Incident Update Report
DGIR 110134



Update #: 4

Type : INLAND UPDATE
Subject : ACID MIXTURE (CODE 2)
Task # : 120335
Assigned To : ED STOCKERL
Incident Area : SURREY

Original Entry Logged : 2011-04-12 05:56
Amount : \$50
ASE Number :
PEP Region : SWE
MOE Region : Lower Mainland Region
MCTS# :

Location : 13045 84TH AVE
Caller : BY EMAIL - HAROLD RIEDLER
Organization : MOE
Primary No :
Alt No :

This Update Logged : 2011-04-13 00:37
PEP Duty Officer : JIM

Details :

Shawn Barton, Project Coordinator, Hazco Environmental advised H. Riedler, BCMOE SERO of the following at 0005 hours, April 13th. Hazco employees discovered a series of large power transformers that rest in approximately 2 cm of pooled waste chromic acid solution within the impacted building. This presents a very high risk to worker safety as the chromic acid solution has a high conductivity and therefore power must be shut-off to the entire building. This presents visibility challenges while attempting to stabilize the spilled chemical. There are too many dark aisles and tight spaces where imported lighting could not effectively provide safe visibility for a continued night response. Therefore, Hazco will commence operations at 1000 hours, April 13rd. The fire department & property management will be advised that the building will remain at a high risk status until work can continue during daylight hours. An emergency response contingency plan remains in place including around the clock security for fire watch and trespass prevention. The extent of damage to the building associated with the spilled material was found to be considerable and mitigation that will allow partial reoccupation of the building is not anticipated to be complete before April 15th (rough estimate at this time).

Notification :

00:38 emailed Code 2 dist list; Wayne Hirlehey PS

Riedler, Harold ENV:EX

From: Knox, Graham ENV:EX
Sent: Wednesday, April 13, 2011 2:06 PM
To: ENV !Emergency Incident Contacts
Cc: Fuller, Ryan ENV:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update #1 - April 13, 2011 @ 14:06

Greetings,

The following information is to update you on the incident that commenced yesterday in Surrey:

- Complete evacuation of the 15 businesses within the subject strata owned building remains in effect.
- The extent of damage to the building associated with the spilled material was found to be considerable and mitigation that will allow partial reoccupation of the building is not anticipated to be completed before April 15th (rough estimate at this time).
- Spilled chromic acid solution within the Precision Plating unit has spread to numerous other units within the building.
- The acid solution has soaked carpeting and other potential organic materials.
- Chromic acid can spontaneously catch fire in contact with organic material.
- Hazco successfully remediated the spilled material on the asphalt tarmac, outside the Precision Plating unit before rainfall occurred.
- Hazco is currently documenting the extent of contamination within the impacted strata units and will proceed with acid neutralization to prevent any further chemical reaction or fire.
- A second Hazco shift will then be brought-in to continue with remediation.
- A contingency plan has been developed in consultation with the Surrey Fire Department should a reaction and fire occur during this response to ensure minimal impact to human health and the environment.
- City of Surrey Environment Department's monitoring did not find visual evidence of an impact to the receiving tributary of Bear Creek.
- The City of Surrey obtained creek samples and will have preliminary results available @ the end of the April 13th work day.
- BC MOE Senior Emergency Response Officer, H. Riedler, will continue to monitor the response and provide assistance as required to advance the remediation process.

No further updates will be provided unless there is a deterioration in the situation. If you require further information please feel free to contact me.

Thank you,

Graham Knox
Manager, Environmental Emergency Program
BC Ministry of Environment
P.O. Box 9342, Stn Prov Govt
Victoria, BC V8W 9M1
Phone: (250) 356-8383
Fax: (250) 953-3856
Email: Graham.Knox@gov.bc.ca
Website: <http://www.env.gov.bc.ca/eemp>

Enick, Oana V ENV:EX

Subject: FW: April 13 site inspection at 13045 84th Avenue, Surrey, BC

Oana Enick, P.Ag., M.E.T.
Land Remediation
BC Ministry of Environment
Surrey, British Columbia
ph: (604) 582-5270 fax: (604) 584-9751

From: Enick, Oana V ENV:EX
Sent: Friday, April 15, 2011 3:19 PM
To: 'SThompson@surrey.ca'; 'lsaxton@surrey.ca'; 'KJ.Sadler@ec.gc.ca'; 'pia.rasmussen@ec.gc.ca'; Fuller, Ryan ENV:EX; Riedler, Harold ENV:EX; Kervel, John ENV:EX
Subject: April 13 site inspection at 13045 84th Avenue, Surrey, BC

Hello all:

Thank you all for joining us yesterday at the Surrey site. Pia, it was nice to see you again, KJ, Stacey and Lauralene it was very nice to meet you, Harold, Ryan and John, always nice to see you.

For your information, here is a current status summary:

1. City of Surrey staff will confirm discharge routes on the property, regarding contamination from the fire and from Oceanic Stones. Stacey, I thought I heard Harold say that you'll communicate with him for follow-up on that issue?
2. Under a City of Surrey bylaw, the strata has been asked to clean up all of the outside storage area (that is to occur within 7 days, right Lauralene)? As of this morning, I understand that strata property management is working with Hazco to secure the punctured, corrosives drum as well.
3. Since this is a fish-bearing creek, Environment Canada staff will follow-up to identify if any further action is needed. Pia, KJ, I'm sorry, but I can't recall what the outcome was here.
4. There was discharge of commercial effluent to the pond and the creek from Oceanic Stones. Further, there was effluent discharge to the storm sewer directly in front of the facility. The company was advised by the Ministry of Environment staff that the discharge to the creek needed to stop. Lauralene, Stacey, I'm not sure what the City of Surrey advised the company in regards to both the discharges to the creek and to the sewer.
5. Regarding the fire at Precision Plating, there was a stakeholders meeting today, involving the following parties: The fire department, Hazco, strata property management, Precision Plating insurance company, Ministry of Environment, City of Surrey, remediation contractor and industrial hygienist contractor. Outcomes of this meeting includes the following:
 - a. Property manager will retain a Qualified Professional to identify sections of the property, drainage works, and impacted receiving environment that were adversely impacted by the fire and subsequent chemical spill,
 - b. By Monday, April 18th, there will be a plan to shrink the evacuation zone,
 - c. The abandoned corrosives drum will be managed, under contract, by Hazco,
 - d. The strata management are pursuing litigation against Oceanic Stones to address a former clean-up of a blocked storm sewer.

6. City of Surrey by-law enforcement officers will visit unit 102 today, following a 24-hrs access notice, as the owners of this unit declined access to the site yesterday.

Thank you all for all of your time and effort. Please feel free to contact me if you need further details and/or pictures.

Best regards,

Oana Enick, P.Ag., M.E.T.
Environmental Protection Officer
Environmental Management
Ministry of Environment
Lower Mainland Region
ph: (604) 582-5270 fax: (604) 584-9751

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 13, 2011 4:27 PM
To: ENV !Emergency Incident Contacts
Cc: 'McDonald,Maxwell [PYR]'; 'Chris.Raymond@ec.gc.ca'
Subject: FW: Exova - Test Results - 798074 - -
Attachments: Package 798074-1.pdf

Please find the following results that accompany my earlier email from Stacey Thompson that provided a aerial view of the impacted creek system and the sampling points. Please contact me if you have any questions in this regard. Thank you.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

-----Original Message-----

From: Thomson, Stacey [<mailto:SThompson@surrey.ca>]
Sent: Wednesday, April 13, 2011 3:48 PM
To: Riedler, Harold ENV:EX
Subject: FW: Exova - Test Results - 798074 - -

Here are the test results for each location.
Stacey

-----Original Message-----

From: Surrey@exova.com [<mailto:Surrey@exova.com>]
Sent: April-13-11 3:34 PM
To: Thomson, Stacey
Cc: Surrey@exova.com
Subject: Exova - Test Results - 798074 - -

Attached File: Package 798074-1.pdf
Exova - Test Results - 798074 - -

The information transmitted is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited. If you received this in error, please contact the sender and delete the material from any computer.

This transmission may contain information that is privileged, confidential and /or exempt from disclosure under applicable law.

If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of the information contained herein is STRICTLY PROHIBITED. If you receive this transmission in error, please immediately contact the sender and destroy the material in its entirety, whether in electronic or hard copy format.

Exova is the trading name of Exova Group Limited, Exova Group BV and all subsidiaries therein.

Exova Group Ltd. Registered office: 6 Coronet Way, Centenary Park, Salford, Manchester M50 1RE. Registered in the United Kingdom, Company Number 06720350.

Exova Group BV is registered in The Netherlands.

Please consider the environment before printing this e-mail and any associated attachments

Report Transmission Cover Page

Bill To: City of Surrey	Project:	Lot ID: 798074
Report To: City of Surrey	ID:	Control Number: A174247
14245 - 56 Avenue	Name:	Date Received: Apr 12, 2011
Surrey, BC, Canada	Location:	Date Reported: Apr 13, 2011
V3X 3A2	LSD:	Report Number: 1422814
Attn: Stacey Thomson	P.O.:	
Sampled By:	Acct code:	
Company:		

Contact & Affiliation	Address	Delivery Commitments
Stacey Thomson	14245 - 56 Avenue	On [Lot Verification] send
City of Surrey - Engineering	Surrey, British Columbia V3X 3A2	(COA) by Email - Single Report
	Phone: (604) 591-4321	On [Report Approval] send
	Fax: (604) 591-8693	(Test Report, COC) by Email - Merge Reports
	Email: sthomson@surrey.ca	On [Report Approval] send
		(Test Report, COC) by Email - Merge Reports
		On [Lot Approval and Final Test Report Approval] send
		(Invoice) by Email - Single Report

Notes To Clients:

The information contained on this and all other pages transmitted, is intended for the addressee only and is considered confidential.
If the reader is not the intended recipient, you are hereby notified that any use, dissemination, distribution or copy of this transmission is strictly prohibited.
If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.

Sample Custody

Bill To: City of Surrey
Report To: City of Surrey
14245 - 56 Avenue
Surrey, BC, Canada
V3X 3A2
Attn: Stacey Thomson
Sampled By:
Company:

Project:
ID:
Name:
Location:
LSD:
P.O.:
Acct code:

Lot ID: **798074**
Control Number: A174247
Date Received: Apr 12, 2011
Date Reported: Apr 13, 2011
Report Number: 1422814

Sample Disposal Date: May 13, 2011

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the top of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	\$ 2.50 per sample
Storage for an additional 60 days	\$ 5.00 per sample
Storage for an additional 90 days	\$ 7.50 per sample

☐ Return Sample, collect, to the address below via:

☐ Greyhound

☐ DHL

☐ Purolator

☐ Other (specify) _____

Name	_____
Company	_____
Address	_____

Phone	_____
Fax	_____
Signature	_____



Analytical Report

Bill To: City of Surrey
 Report To: City of Surrey
 14245 - 56 Avenue
 Surrey, BC, Canada
 V3X 3A2
 Attn: Stacey Thomson
 Sampled By:
 Company:

Project:
 ID:
 Name:
 Location:
 LSD:
 P.O.:
 Acct code:

Lot ID: **798074**
 Control Number: A174247
 Date Received: Apr 12, 2011
 Date Reported: Apr 13, 2011
 Report Number: 1422814

		Reference Number	798074-1	798074-2	798074-3	
		Sample Date	Apr 12, 2011	Apr 12, 2011	Apr 12, 2011	
		Sample Time	10:12	09:52	10:35	
		Sample Location				
		Sample Description	132 St South of 86 Ave	KGB South of 88 Ave	8613 Tulsy Crs	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Total						
Aluminum	Total	mg/L	0.154	0.072	0.057	0.005
Antimony	Total	mg/L	0.0003	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	0.0011	0.0007	0.0006	0.0002
Barium	Total	mg/L	0.018	0.019	0.019	0.001
Beryllium	Total	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Total	mg/L	0.011	0.013	0.012	0.004
Cadmium	Total	mg/L	0.00004	0.00002	0.00001	0.00001
Calcium	Total	mg/L	17.4	21.2	20.9	0.05
Chromium	Total	mg/L	0.0082	0.0004	0.0012	0.0004
Cobalt	Total	mg/L	0.00015	0.00010	0.0001	0.00002
Copper	Total	mg/L	0.004	0.003	0.003	0.001
Iron	Total	mg/L	0.317	0.186	0.165	0.01
Lead	Total	mg/L	0.0006	0.0002	0.0002	0.0001
Lithium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Magnesium	Total	mg/L	2.67	3.99	3.85	0.05
Manganese	Total	mg/L	0.025	0.018	0.020	0.005
Molybdenum	Total	mg/L	0.0006	0.0004	0.0004	0.0001
Nickel	Total	mg/L	0.001	<0.001	<0.001	0.001
Phosphorus	Total	mg/L	0.019	0.016	0.020	0.01
Potassium	Total	mg/L	1.3	1.5	1.4	0.1
Selenium	Total	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silicon	Total	mg/L	3.56	4.87	4.81	0.05
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Sodium	Total	mg/L	11.5	13.3	13.2	0.02
Strontium	Total	mg/L	0.094	0.124	0.124	0.001
Sulfur	Total	mg/L	2.7	3.4	3.4	0.1
Tellurium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Titanium	Total	mg/L	0.004	0.003	<0.001	0.001
Uranium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Vanadium	Total	mg/L	0.0008	0.0006	0.0006	0.0001
Zinc	Total	mg/L	0.056	0.022	0.019	0.001
Zirconium	Total	mg/L	0.0002	0.0002	0.0001	0.0001

Exova
#104, 19575-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada

T: +1 (604) 514-3322
F: +1 (604) 514-3323
E: Surrey@exova.com
W: www.exova.com



Analytical Report

Bill To: City of Surrey
Report To: City of Surrey
14245 - 56 Avenue
Surrey, BC, Canada
V3X 3A2
Attn: Stacey Thomson
Sampled By:
Company:

Project:
ID:
Name:
Location:
LSD:
P.O.:
Acct code:

Lot ID: **798074**
Control Number: A174247
Date Received: Apr 12, 2011
Date Reported: Apr 13, 2011
Report Number: 1422814

Approved by: 
Marie England
Consulting Scientist

Methodology and Notes

Bill To: City of Surrey
Report To: City of Surrey
14245 - 56 Avenue
Surrey, BC, Canada
V3X 3A2
Attn: Stacey Thomson
Sampled By:
Company:

Project:
ID:
Name:
Location:
LSD:
P.O.:
Acct code:

Lot ID: **798074**
Control Number: A174247
Date Received: Apr 12, 2011
Date Reported: Apr 13, 2011
Report Number: 1422814

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Metals SemiTrace (Total) in Water	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	12-Apr-11	Exova Surrey
Trace Metals (Total) in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Apr-11	Exova Surrey
Trace Metals (Total) in Water	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	12-Apr-11	Exova Surrey

** Reference Method Modified*

References

US EPA US Environmental Protection Agency Test Methods


Comments:

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

Environmental Sample Information Sheet

Note: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Exova location and proper sampling protocol

Billing Address:		Copy of Report:		Copy of Report:		Invoice:	
Company: City of Surrey		<input type="checkbox"/>		Company: 		<input type="checkbox"/>	
Address:		QA/QC Report <input type="checkbox"/>		Address:		to this approval <input type="checkbox"/>	
Attention: Stacey Thomson		Report Result:		Attention:		Report Result:	
Phone: 604-591-4321		e-mail <input type="checkbox"/>		Phone:		e-mail <input type="checkbox"/>	
Fax: Engineering - Drivage & Enviro		Results Online <input type="checkbox"/>		Fax:		Online <input type="checkbox"/>	
Cell:		Fax <input type="checkbox"/>		Cell:		Fax <input type="checkbox"/>	
e-mail: SThomson@surrey.ca		Mail <input type="checkbox"/>		e-mail:		Mail <input type="checkbox"/>	

Information to be included on Report and Invoice

Project ID:
Project Name:
Project Location:
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID:

Special Instructions / Comments

PRIOR

Please contact laboratory prior to submitting any RUSH samples.

Upon filling out this section, client accepts that surcharges will be applied to this analysis.

If not all samples require RUSH, please indicate in special instructions.

Date Required: 100 %
Signature: _____

Sampled by:

Company	Signature
---------	-----------

I authorize Exova to proceed with the work indicated on this form:

Date: Initial:

Received by: <i>LS</i>	Sample Temp.
------------------------	--------------

Waybill #	Date
Hand Delivered	Time

Company		Time	

Please indicate which regulations you are required to meet:

☐ Health Canada Drinking Water Quality

Alberta Tier 1

Other:	
--------	--

[illegible]

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page of

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 13, 2011 6:44 PM
To: ENV !Emergency Incident Contacts
Cc: Knox, Graham ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd. Chromic Acid Spill, Surrey - April 13, 2011 @ 1510 hours Update.

We have received the following information regarding progress made in response to the subject incident.

- The hazardous waste remediation company, Hazco Environmental, has completed neutralization of acid contamination within impacted Units next to the responsible party's Unit in the commercial strata complex @ 13045 84th Avenue, Surrey. The responsible party is Precision Plating Ltd. that operates within Unit 101.
- Power to the entire building remains off as electrical transformers still rest within the pooled waste chromic acid solution in the responsible party's Unit.
- Hazco Environmental Service will pump out pooled plating solutions that are outside of containment and will treat contaminated surfaces with neutralizing agent in preparation for removal and disposal by as early as noon, April 14th.
- A Certified Industrial Hygienist (CIH) will be retained by the building strata management to determine what conditions need to be met and/or what further remedial action will be required to allow reoccupation based on the CIH assessment of each individual unit.
- No reoccupation will occur before April 15, 2011 and any reoccupation will also require the approval from the Surrey Fire Department.
- An environmental consultant will be retained to assess the environmental impact and identify required remedial measures to protect human health and the environment.
- Several potential unauthorized hazardous waste and industrial waste discharge activities were observed in other commercial strata units during the response to the subject incident. These discharges were observed to occur from commercial operations that back on to a creek with high fisheries resource. Therefore, staff from Environment Canada, MOE Environmental Protection and MOE Environmental Emergencies Management Program will conduct an unannounced inspection of operations within this general commercial area during the morning of April 14, 2011.
- A MOE Environmental Emergency Response Officer will continue to monitor the remedial measures taken by and on behalf of the responsible party.
- The Code 2 designation will remain in effect until the EERO's discussions with the CIH and Fire Department find remedial measures have met conditions to rescind the evacuation.
- Daily updates will be provided until clearance for reoccupying the strata building is granted.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Environmental Emergencies Spill Reports ENV:EX [EESR@gov.bc.ca]
Sent: Wednesday, April 13, 2011 8:44 PM
To: Riedler, Harold ENV:EX
Subject: FW: DGIR 110134 UPDATE 5 - SWE

From: SGPEP.ECC1@gov.bc.ca[SMTP:SGPEP.ECC1@GOV.BC.CA]
Sent: Wednesday, April 13, 2011 8:43:31 PM
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 110134 UPDATE 5 - SWE
Auto forwarded by a Rule

Incident Date/Time: 2011-04-12 5:56

Location: 13045 84TH AVE
Area: SURREY
PEP Region: SWE
MOE Region: Lower Mainland Region

Caller / Agency: HAROLD RIEDLER (BY EMAIL) MOE RO

Details: We have received the following information regarding progress made in response to the subject incident.

- The hazardous waste remediation company, Hazco Environmental, has completed neutralization of acid contamination within impacted Units next to the responsible party's Unit in the commercial strata complex @ 13045 84th Avenue, Surrey. The responsible party is Precision Plating Ltd. that operates within Unit 101.
- Power to the entire building remains off as electrical transformers still rest within the pooled waste chromic acid solution in the responsible party's Unit.
- Hazco Environmental Service will pump out pooled plating solutions that are outside of containment and will treat contaminated surfaces with neutralizing agent in preparation for removal and disposal by as early as noon, April 14th.
- A Certified Industrial Hygienist (CIH) will be retained by the building strata management to determine what conditions need to be met and/or what further remedial action will be required to allow reoccupation based on the CIH assessment of each individual unit.
- No reoccupation will occur before April 15, 2011 and any reoccupation will also require the approval from the Surrey Fire Department.
- An environmental consultant will be retained to assess the environmental impact and identify required remedial measures to protect human health and the environment.
- Several potential unauthorized hazardous waste and industrial waste discharge activities were observed in other commercial strata units during the response to the subject incident. These discharges were observed to occur from commercial operations that back on to a creek with high fisheries resource. Therefore, staff from Environment Canada, MOE Environmental Protection and MOE Environmental Emergencies Management Program will conduct an unannounced inspection of operations within this general commercial area during the morning of April 14, 2011.
- A MOE Environmental Emergency Response Officer will continue to monitor the remedial measures taken by and on behalf of the responsible party.
- The Code 2 designation will remain in effect until the EERO's discussions with the CIH and Fire Department find remedial measures have met conditions to rescind the evacuation.
- Daily updates will be provided until clearance for reoccupying the strata building is granted.

Environmental Emergency Response Officer:

Date:

Notification Coding: Code 1 / Code 2

MOE Response: Exercise / Potential / No Field Response / Field Response / IMT Activation

Notes:

Riedler, Harold ENV:EX

From: Jackson, Vickie ENV:EX
Sent: Thursday, April 14, 2011 8:26 AM
To: Riedler, Harold ENV:EX
Subject: Fw: Acid Spill, Surrey - April 13, 2011 @ 1510 hours Update.

Harold. Who would I contact to make this call?

Thanks.

From: Sharma, Rishi ENV:EX
Sent: Wednesday, April 13, 2011 09:34 PM
To: Jackson, Vickie ENV:EX
Cc: Wenezenki-Yolland, Cheryl EAO:EX; Lake, Terry ENV:EX; Loiacono, Sabrina ENV:EX; Nicoll, Sara ENV:EX
Subject: Acid Spill, Surrey - April 13, 2011 @ 1510 hours Update.

Hi Vickie - I received a call from MLA Harry Bains tonight, calling on behalf of a business owner located next door to the affected site (noted below). He is wondering when businesses in the area (not in the strata) will be able to get back to work. Can we please have a staff member call him first thing in the morning?

His number is s.22

Thank you,
Rish

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 13, 2011 06:43 PM
To: ENV !Emergency Incident Contacts
Cc: Knox, Graham ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd. Chromic Acid Spill, Surrey - April 13, 2011 @ 1510 hours Update.

We have received the following information regarding progress made in response to the subject incident.

- The hazardous waste remediation company, Hazco Environmental, has completed neutralization of acid contamination within impacted Units next to the responsible party's Unit in the commercial strata complex @ 13045 84th Avenue, Surrey. The responsible party is Precision Plating Ltd. that operates within Unit 101.
- Power to the entire building remains off as electrical transformers still rest within the pooled waste chromic acid solution in the responsible party's Unit.
- Hazco Environmental Service will pump out pooled plating solutions that are outside of containment and will treat contaminated surfaces with neutralizing agent in preparation for removal and disposal by as early as noon, April 14th.
- A Certified Industrial Hygienist (CIH) will be retained by the building strata management to determine what conditions need to be met and/or what further remedial action will be required to allow reoccupation based on the CIH assessment of each individual unit.
- No reoccupation will occur before April 15, 2011 and any reoccupation will also require the approval from the Surrey Fire Department.
- An environmental consultant will be retained to assess the environmental impact and identify required remedial measures to protect human health and the environment.
- Several potential unauthorized hazardous waste and industrial waste discharge activities were observed in other commercial strata units during the response to the subject incident. These discharges were observed to occur from commercial operations that back on to a creek with high fisheries resource. Therefore, staff from Environment Canada, MOE Environmental Protection and MOE Environmental Emergencies Management Program will conduct an unannounced inspection of operations within this general commercial area during the morning of April 14, 2011.

by and on behalf of the responsible party.

- The Code 2 designation will remain in effect until the EERO's discussions with the CIH and Fire Department find remedial measures have met conditions to rescind the evacuation.
- Daily updates will be provided until clearance for reoccupying the strata building is granted.

Harold Riedler

Senior Emergency Response Officer

Coastal Region - Surrey Office

Environmental Emergencies Program

Ministry of Environment

Phone: 604-582-5278

harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Knox, Graham ENV:EX
Sent: Thursday, April 14, 2011 12:21 PM
To: ENV !Emergency Incident Contacts
Cc: Fuller, Ryan ENV:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 12:20

Importance: High

Greetings,

Due to the ongoing evacuation and impacts to neighbouring businesses the following incident information is being sent to you:

- Only the 15 tenant businesses of the strata complex are evacuated currently.
- Some neighbouring businesses are being impacted due to the site security requirements that restricts vehicle access in and around the security zone.
- Vehicle access is restricted to ensure that Fire Department emergency vehicles have full access to the site at all times due to the continued high risk of fire (Chromic acid can result in spontaneous fire risk when it comes into contact with organic materials).
- Vehicle access restrictions are impacting neighbouring businesses that require vehicle access due to the nature of their business (example: automotive repair).
- Hazco (response contractor) hopes to have the acid at all the evacuated business units neutralized and stabilized down to a moderate risk level sometime this evening.
- Once the risk is reduced than a certified industrial hygienist will be required to give approval before any re-occupation of the evacuated area can occur.
- Surrey fire department will need to give approval for any shrinkage of the current security (and vehicle restricted access) zone based on the on-going fire risk.
- The earliest anticipated time that impacts to neighbouring businesses will be reduced is Friday (April 15th).
- Once the fire department and industrial hygienist have given approval for a reduction of the security zone and a staged re-occupation a demobilization plan will be put in place with additional input of the property management group and other key stakeholders.
- Some of the businesses in the evacuation zone are heavily saturated with contamination and will therefore require significant tear out and removal of the contaminated materials which is likely to take multiple days to accomplish.
- All tenants and businesses have been provided with a contact number for Canstar (the Responsible Party's lead contractor for cleanup and site security) for on-going updates on re-occupation and changes to the security zone.

An additional update on progress will be provided later today or this evening.

Thank you,

Graham Knox
Manager, Environmental Emergency Program
BC Ministry of Environment
P.O. Box 9342, Stn Prov Govt
Victoria, BC V8W 9M1
Phone: (250) 356-8383
Fax: (250) 953-3856
Email: Graham.Knox@gov.bc.ca
Website: <http://www.env.gov.bc.ca/eemp>

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Thursday, April 14, 2011 5:41 PM
To: ENV !Emergency Incident Contacts
Cc: Knox, Graham ENV:EX; Fuller, Ryan ENV:EX; Kervel, John ENV:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

The following provides the current status in regard to remedial response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- All 15 units within the strata complex remain vacant until the evacuation notice is rescinded by the Fire Department and Ministry of Environment.
- The fire department will not allow occupancy until the shut-off fire sprinkling system is approved by the fire department to be turned back on. The sprinkling system and power must remain off to the building to ensure that accidental activation of the system does not spread contamination within the building and does not pose a hazard to the hazardous waste remediation contractor working in proximity to power transformers and spilled and electrically conductive chrome and nickel plating solutions.
- Vehicle access is currently denied to both 13045 and 13055 commercial strata buildings to ensure that fire department and ambulatory emergency vehicles have full access to the site as a contingency. The potential risk for fire in building 13045 remains high until the entire contaminated section of that building is treated with a neutralizing agent.
- From the perspective concerning fire prevention, all impacted units neighbouring the Precision Plating Ltd. unit within 13045 have been treated and stabilized.
- The hazardous waste remediation contractor is currently treating and stabilizing the remaining high risk Precision Plating Ltd. unit #101 and should have this fire prevention work completed by this evening.
- Hydro and certified industrial health consultants will be retained tomorrow to determine what work remains to allow restoration of power, reactivation of the sprinkling system (in consultation with the Fire Department) and reoccupation.
- An environmental consultant will be retained to assess the potential site contamination in regard to the Contaminated Sites Regulation and impact to the receiving environment including Bear Creek, the creek that received some of the spilled material and is classified as having a high fisheries value.
- The property manager, Paragon Realty Corporation, will attend a scheduled meeting at 9:00 AM April 15, 2011 with representatives from the Fire Department, Insurance Companies (for responsible party and strata property), City of Surrey Engineering, Hazardous Waste Remediation Contractor, Property Restoration Contractor and MOE to obtain the most current status in regard to the remediation and to begin developing a Reoccupation Plan.
- Shrinking the security zone to allow for full vehicle access to strata building 13055 – 84th Avenue will be discussed during the 9:00 AM April 15th meeting.
- The Property Manager has agreed to communicate directly with the strata occupants and will provide timely updates to reveal the progress made and planned to achieve reoccupation to address anxiety currently being expressed by the impacted strata business owners to the media.
- Representatives from Environment Canada Inspection and Enforcement, City of Surrey Bylaw Enforcement & Environment Department, MOE Environmental Protection & Environmental Emergency Management inspected strata units within the 13055 84th Avenue building to address noncompliance issues pertaining to improper management and disposal of commercial waste and hazardous materials that was discovered during the response to the neighbouring 13045 84th Avenue chromic acid spill incident by the attending MOE Emergency Response Officer.

An additional update on progress will be provided after the 9:00 AM April 15th meeting.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment

Riedler, Harold ENV:EX

From: Sharma, Rishi ENV:EX
Sent: Thursday, April 14, 2011 5:57 PM
To: Riedler, Harold ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

Thank you...

From: Riedler, Harold ENV:EX
Sent: Thursday, April 14, 2011 05:40 PM
To: ENV !Emergency Incident Contacts
Cc: Knox, Graham ENV:EX; Fuller, Ryan ENV:EX; Kervel, John ENV:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

The following provides the current status in regard to remedial response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- All 15 units within the strata complex remain vacant until the evacuation notice is rescinded by the Fire Department and Ministry of Environment.
- The fire department will not allow occupancy until the shut-off fire sprinkling system is approved by the fire department to be turned back on. The sprinkling system and power must remain off to the building to ensure that accidental activation of the system does not spread contamination within the building and does not pose a hazard to the hazardous waste remediation contractor working in proximity to power transformers and spilled and electrically conductive chrome and nickel plating solutions.
- Vehicle access is currently denied to both 13045 and 13055 commercial strata buildings to ensure that fire department and ambulatory emergency vehicles have full access to the site as a contingency. The potential risk for fire in building 13045 remains high until the entire contaminated section of that building is treated with a neutralizing agent.
- From the perspective concerning fire prevention, all impacted units neighbouring the Precision Plating Ltd. unit within 13045 have been treated and stabilized.
- The hazardous waste remediation contractor is currently treating and stabilizing the remaining high risk Precision Plating Ltd. unit #101 and should have this fire prevention work completed by this evening.
- Hydro and certified industrial health consultants will be retained tomorrow to determine what work remains to allow restoration of power, reactivation of the sprinkling system (in consultation with the Fire Department) and reoccupation.
- An environmental consultant will be retained to assess the potential site contamination in regard to the Contaminated Sites Regulation and impact to the receiving environment including Bear Creek, the creek that received some of the spilled material and is classified as having a high fisheries value.
- The property manager, Paragon Realty Corporation, will attend a scheduled meeting at 9:00 AM April 15, 2011 with representatives from the Fire Department, Insurance Companies (for responsible party and strata property), City of Surrey Engineering, Hazardous Waste Remediation Contractor, Property Restoration Contractor and MOE to obtain the most current status in regard to the remediation and to begin developing a Reoccupation Plan.
- Shrinking the security zone to allow for full vehicle access to strata building 13055 – 84th Avenue will be discussed during the 9:00 AM April 15th meeting.
- The Property Manager has agreed to communicate directly with the strata occupants and will provide timely updates to reveal the progress made and planned to achieve reoccupation to address anxiety currently being expressed by the impacted strata business owners to the media.
- Representatives from Environment Canada Inspection and Enforcement, City of Surrey Bylaw Enforcement & Environment Department, MOE Environmental Protection & Environmental Emergency Management inspected

strata units within the 13055 84th Avenue building to address noncompliance issues pertaining to improper management and disposal of commercial waste and hazardous materials that was discovered during the response to the neighbouring 13045 84th Avenue chromic acid spill incident by the attending MOE Emergency Response Officer.

An additional update on progress will be provided after the 9:00 AM April 15th meeting.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: MacDonald, Cairine ENV:EX
Sent: Thursday, April 14, 2011 6:06 PM
To: Standen, Jim ENV:EX
Cc: Riedler, Harold ENV:EX
Subject: Fwd: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

Your folks are doing a good job. I have been impressed by how this is being handled. Cairine

Sent remote mode.

Begin forwarded message:

From: "Riedler, Harold ENV:EX" <Harold.Riedler@gov.bc.ca>
Date: 14 April, 2011 5:40:32 PM PDT
To: ENV !Emergency Incident Contacts <ENVEIC@Victoria1.gov.bc.ca>
Cc: "Knox, Graham ENV:EX" <Graham.Knox@gov.bc.ca>, "Fuller, Ryan ENV:EX" <Ryan.Fuller@gov.bc.ca>, "Kervel, John ENV:EX" <John.Kervel@gov.bc.ca>
Subject: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

The following provides the current status in regard to remedial response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- All 15 units within the strata complex remain vacant until the evacuation notice is rescinded by the Fire Department and Ministry of Environment.
- The fire department will not allow occupancy until the shut-off fire sprinkling system is approved by the fire department to be turned back on. The sprinkling system and power must remain off to the building to ensure that accidental activation of the system does not spread contamination within the building and does not pose a hazard to the hazardous waste remediation contractor working in proximity to power transformers and spilled and electrically conductive chrome and nickel plating solutions.
- Vehicle access is currently denied to both 13045 and 13055 commercial strata buildings to ensure that fire department and ambulatory emergency vehicles have full access to the site as a contingency. The potential risk for fire in building 13045 remains high until the entire contaminated section of that building is treated with a neutralizing agent.
- From the perspective concerning fire prevention, all impacted units neighbouring the Precision Plating Ltd. unit within 13045 have been treated and stabilized.
- The hazardous waste remediation contractor is currently treating and stabilizing the remaining high risk Precision Plating Ltd. unit #101 and should have this fire prevention work completed by this evening.
- Hydro and certified industrial health consultants will be retained tomorrow to determine what work remains to allow restoration of power, reactivation of the sprinkling system (in consultation with the Fire Department) and reoccupation.
- An environmental consultant will be retained to assess the potential site contamination in regard to the Contaminated Sites Regulation and impact to the receiving environment

having a high fisheries value.

- The property manager, Paragon Realty Corporation, will attend a scheduled meeting at 9:00 AM April 15, 2011 with representatives from the Fire Department, Insurance Companies (for responsible party and strata property), City of Surrey Engineering, Hazardous Waste Remediation Contractor, Property Restoration Contractor and MOE to obtain the most current status in regard to the remediation and to begin developing a Reoccupation Plan.
- Shrinking the security zone to allow for full vehicle access to strata building 13055 – 84th Avenue will be discussed during the 9:00 AM April 15th meeting.
- The Property Manager has agreed to communicate directly with the strata occupants and will provide timely updates to reveal the progress made and planned to achieve reoccupation to address anxiety currently being expressed by the impacted strata business owners to the media.
- Representatives from Environment Canada Inspection and Enforcement, City of Surrey Bylaw Enforcement & Environment Department, MOE Environmental Protection & Environmental Emergency Management inspected strata units within the 13055 84th Avenue building to address noncompliance issues pertaining to improper management and disposal of commercial waste and hazardous materials that was discovered during the response to the neighbouring 13045 84th Avenue chromic acid spill incident by the attending MOE Emergency Response Officer.

An additional update on progress will be provided after the 9:00 AM April 15th meeting.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Standen, Jim ENV:EX
Sent: Friday, April 15, 2011 8:40 AM
To: MacDonald, Cairine ENV:EX
Cc: Riedler, Harold ENV:EX; Knox, Graham ENV:EX; Hofweber, Jim E ENV:EX
Subject: Re: Fwd: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

Thank you Cairine. I agree completely and I know staff appreciate your recognizing their good work.

Jim

From: MacDonald, Cairine ENV:EX
Sent: Thursday, April 14, 2011 06:05 PM
To: Standen, Jim ENV:EX
Cc: Riedler, Harold ENV:EX
Subject: Fwd: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

Your folks are doing a good job. I have been impressed by how this is being handled. Cairine

Sent remote mode.

Begin forwarded message:

From: "Riedler, Harold ENV:EX" <Harold.Riedler@gov.bc.ca>
Date: 14 April, 2011 5:40:32 PM PDT
To: ENV !Emergency Incident Contacts <ENVEIC@Victoria1.gov.bc.ca>
Cc: "Knox, Graham ENV:EX" <Graham.Knox@gov.bc.ca>, "Fuller, Ryan ENV:EX" <Ryan.Fuller@gov.bc.ca>, "Kervel, John ENV:EX" <John.Kervel@gov.bc.ca>
Subject: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

The following provides the current status in regard to remedial response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- All 15 units within the strata complex remain vacant until the evacuation notice is rescinded by the Fire Department and Ministry of Environment.
- The fire department will not allow occupancy until the shut-off fire sprinkling system is approved by the fire department to be turned back on. The sprinkling system and power must remain off to the building to ensure that accidental activation of the system does not spread contamination within the building and does not pose a hazard to the hazardous waste remediation contractor working in proximity to power transformers and spilled and electrically conductive chrome and nickel plating solutions.
- Vehicle access is currently denied to both 13045 and 13055 commercial strata buildings to ensure that fire department and ambulatory emergency vehicles have full access to the site as a contingency. The potential risk for fire in building 13045 remains high until the entire contaminated section of that building is treated with a neutralizing agent.
- From the perspective concerning fire prevention, all impacted units neighbouring the Precision Plating Ltd. unit within 13045 have been treated and stabilized.

remaining high risk Precision Plating Ltd. unit #101 and should have this fire prevention work completed by this evening.

- Hydro and certified industrial health consultants will be retained tomorrow to determine what work remains to allow restoration of power, reactivation of the sprinkling system (in consultation with the Fire Department) and reoccupation.
- An environmental consultant will be retained to assess the potential site contamination in regard to the Contaminated Sites Regulation and impact to the receiving environment including Bear Creek, the creek that received some of the spilled material and is classified as having a high fisheries value.
- The property manager, Paragon Realty Corporation, will attend a scheduled meeting at 9:00 AM April 15, 2011 with representatives from the Fire Department, Insurance Companies (for responsible party and strata property), City of Surrey Engineering, Hazardous Waste Remediation Contractor, Property Restoration Contractor and MOE to obtain the most current status in regard to the remediation and to begin developing a Reoccupation Plan.
- Shrinking the security zone to allow for full vehicle access to strata building 13055 – 84th Avenue will be discussed during the 9:00 AM April 15th meeting.
- The Property Manager has agreed to communicate directly with the strata occupants and will provide timely updates to reveal the progress made and planned to achieve reoccupation to address anxiety currently being expressed by the impacted strata business owners to the media.
- Representatives from Environment Canada Inspection and Enforcement, City of Surrey Bylaw Enforcement & Environment Department, MOE Environmental Protection & Environmental Emergency Management inspected strata units within the 13055 84th Avenue building to address noncompliance issues pertaining to improper management and disposal of commercial waste and hazardous materials that was discovered during the response to the neighbouring 13045 84th Avenue chromic acid spill incident by the attending MOE Emergency Response Officer.

An additional update on progress will be provided after the 9:00 AM April 15th meeting.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
[*harold.riedler@gov.bc.ca*](mailto:harold.riedler@gov.bc.ca)

Riedler, Harold ENV:EX

From: Chor, Alan ENV:EX
Sent: Friday, April 15, 2011 8:51 AM
To: Riedler, Harold ENV:EX
Cc: Enick, Oana V ENV:EX; Knox, Graham ENV:EX
Subject: News Item on Chemical spill in Surrey - Precision Plating

FYI, Harold...

<http://www.news1130.com/news/local/article/212640--chemical-spill-in-surrey-has-several-businesses-still-closed>

Please note the User Comment at the bottom of the web page: "Harold Reidler is the best chemical spill responder in BC, bar none. The public are fortunate to have such dedicated public servant looking out for them."

Alan Chor

Senior Environmental Protection Officer

BC Ministry of Environment (South Coast) | #200 - 10470 152 St., Surrey BC V3R 0Y3

Tel: 604 582-5271 (direct)/ 604 582-5200 (front desk) | Fax: 604 584-9751 www.gov.bc.ca/env

24-hour Spill/Environmental Emergency Reporting: 1 800 663-3456 (Provincial Emergency Program)

24-hour RAPP (Report All Poachers and Polluters) tip-line: 1 877 952-7277 (Conservation Officer Service)

APRIL 14, 2011

PHOTOS TAKEN

BY OAHN ENICK

ENVIRONMENTAL

PROTECTION OFFICER

ENVIRONMENTAL

PROTECTION

BC Min. of Env.

SHOWING INSPECTION FINDINGS

IN & AROUND 13055 - 84 AVE SW
N. Kieddu



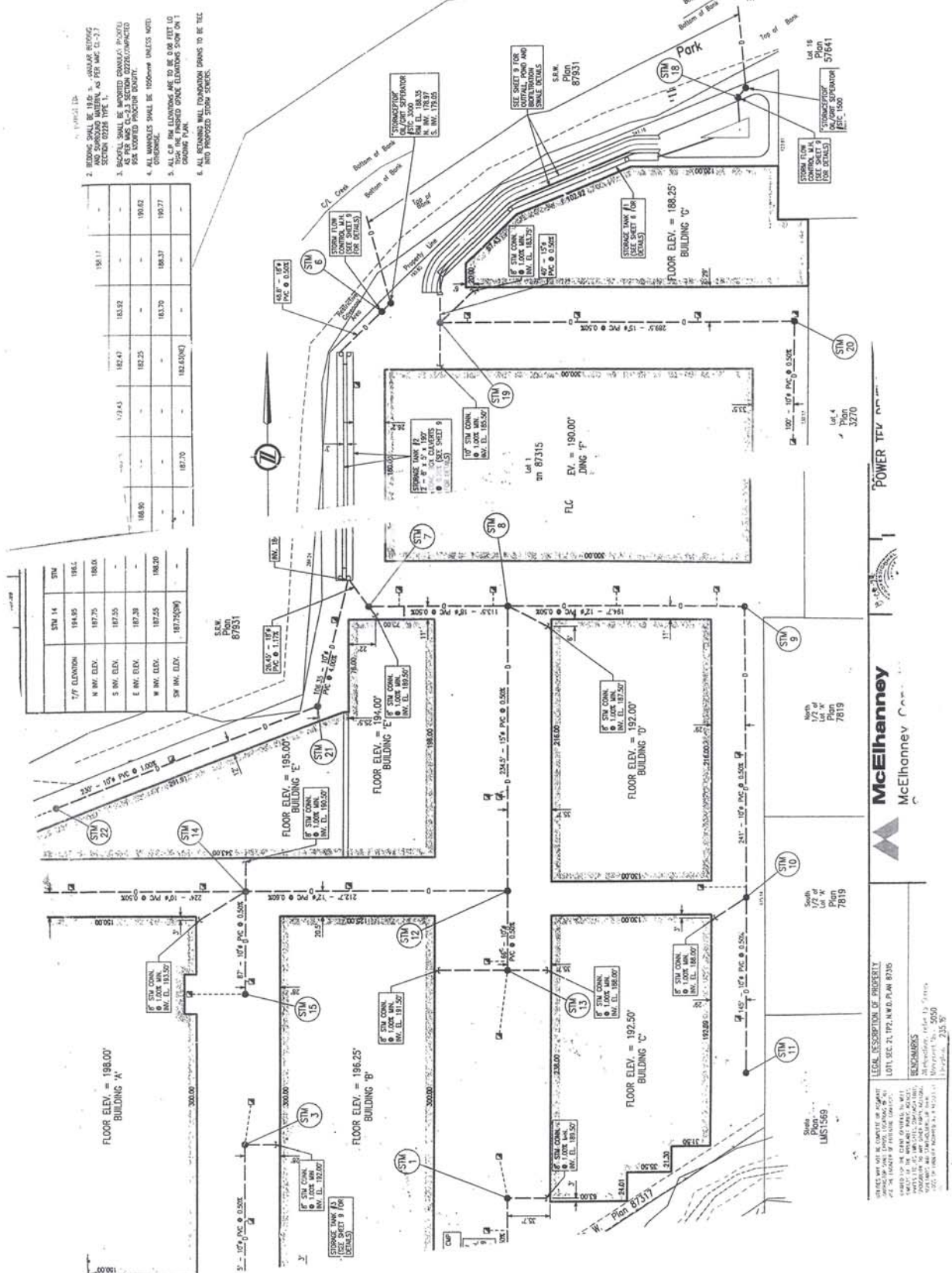
The data provided is compiled from various sources and is NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, legal descriptions and other information are subject to change without notice. Use and distribution of this map is subject to all copyright and disclaimer notices at cosmos.surrey.ca.

Enter Map Description

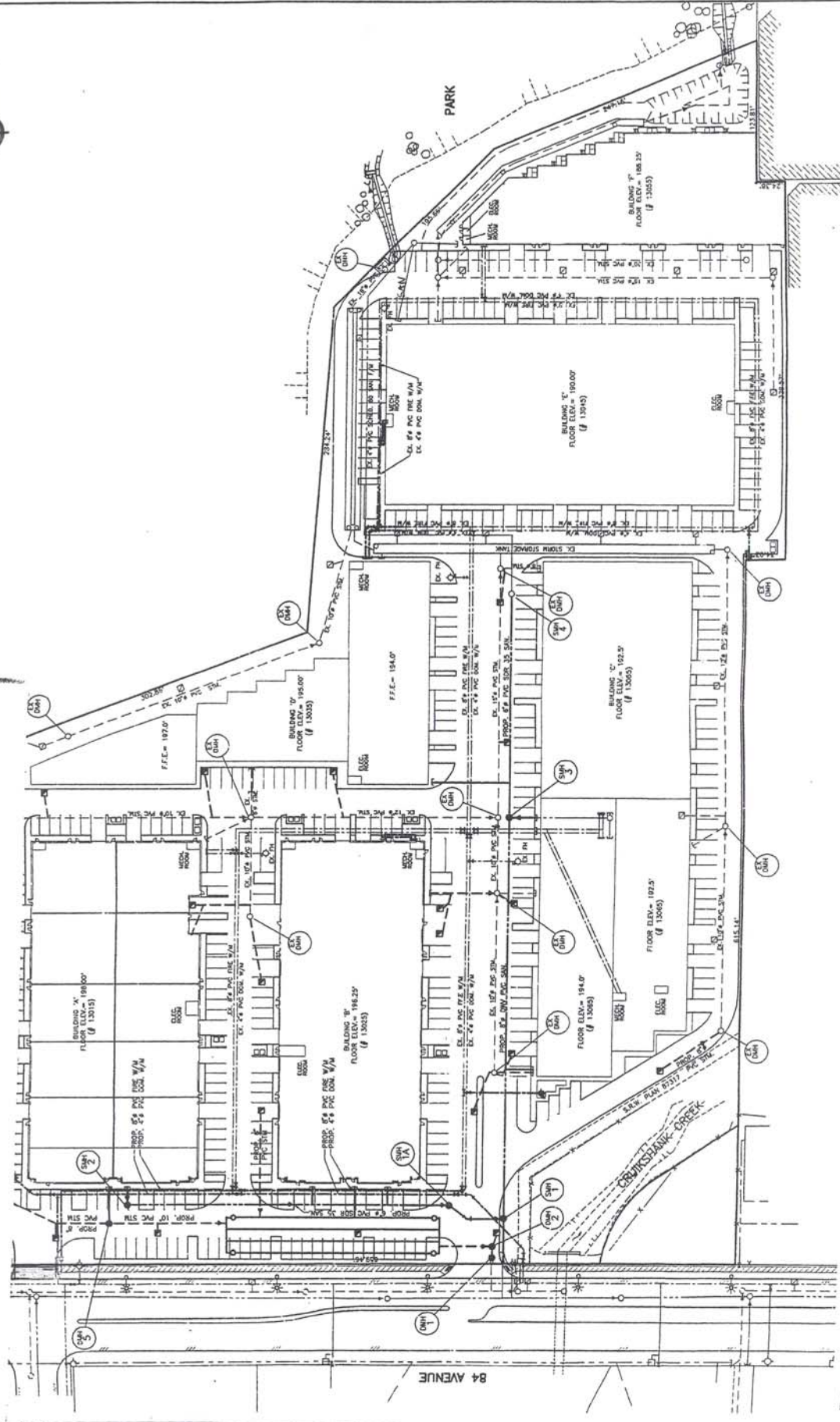
Scale: 1:1,066

Map created on: Thursday, 14 April 2011





027453
BUILDING PERMIT



CITY OF SURREY

KEY PLAN

TITLE

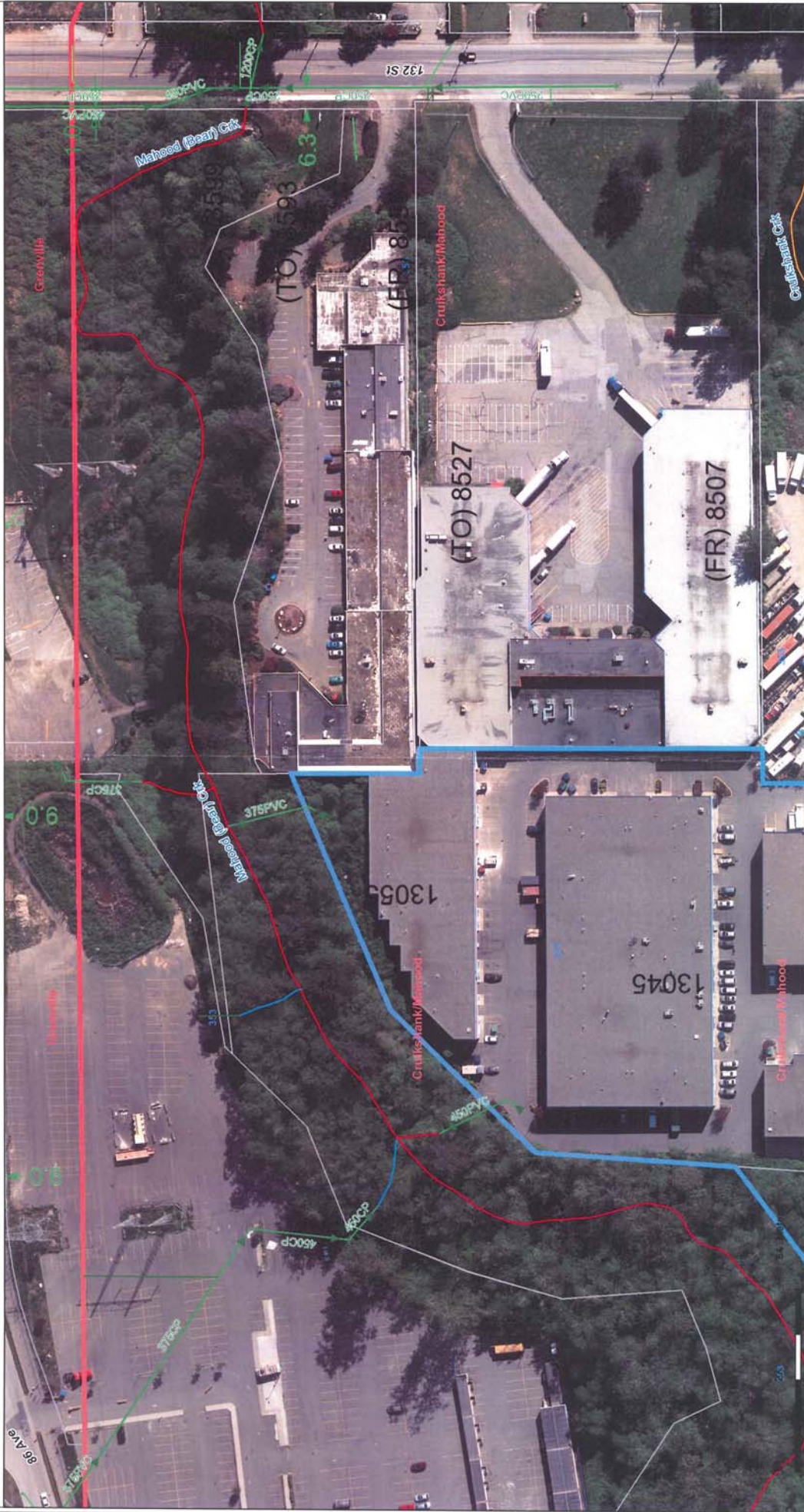
DEVELOPER: TEO DEVELOPMENT LTD. &
GOLDEN VIEW DEVELOPMENT CORP.
80 AVE. SURREY, BC V3W 1J7
PH: 604-531-5311 FAX: 604-531-5308

DESIGNER:



H.Y. ENGINEERING LTD.

LEGAL DESCRIPTION
LOT 1, SECTION 28, TOWNSHIP 2,
R1D, S1D, S2D, S3D, S4D, S5D,
S6D, S7D, S8D, S9D, S10D, S11D,
S12D, S13D, S14D, S15D, S16D,
S17D, S18D, S19D, S20D, S21D,
S22D, S23D, S24D, S25D, S26D,
S27D, S28D, S29D, S30D, S31D,
S32D, S33D, S34D, S35D, S36D,
S37D, S38D, S39D, S40D, S41D,
S42D, S43D, S44D, S45D, S46D,
S47D, S48D, S49D, S50D, S51D,
S52D, S53D, S54D, S55D, S56D,
S57D, S58D, S59D, S60D, S61D,
S62D, S63D, S64D, S65D, S66D,
S67D, S68D, S69D, S70D, S71D,
S72D, S73D, S74D, S75D, S76D,
S77D, S78D, S79D, S80D, S81D,
S82D, S83D, S84D, S85D, S86D,
S87D, S88D, S89D, S90D, S91D,
S92D, S93D, S94D, S95D, S96D,
S97D, S98D, S99D, S100D, S101D,
S102D, S103D, S104D, S105D, S106D,
S107D, S108D, S109D, S110D, S111D,
S112D, S113D, S114D, S115D, S116D,
S117D, S118D, S119D, S120D, S121D,
S122D, S123D, S124D, S125D, S126D,
S127D, S128D, S129D, S130D, S131D,
S132D, S133D, S134D, S135D, S136D,
S137D, S138D, S139D, S140D, S141D,
S142D, S143D, S144D, S145D, S146D,
S147D, S148D, S149D, S150D, S151D,
S152D, S153D, S154D, S155D, S156D,
S157D, S158D, S159D, S160D, S161D,
S162D, S163D, S164D, S165D, S166D,
S167D, S168D, S169D, S170D, S171D,
S172D, S173D, S174D, S175D, S176D,
S177D, S178D, S179D, S180D, S181D,
S182D, S183D, S184D, S185D, S186D,
S187D, S188D, S189D, S190D, S191D,
S192D, S193D, S194D, S195D, S196D,
S197D, S198D, S199D, S200D, S201D,
S202D, S203D, S204D, S205D, S206D,
S207D, S208D, S209D, S210D, S211D,
S212D, S213D, S214D, S215D, S216D,
S217D, S218D, S219D, S220D, S221D,
S222D, S223D, S224D, S225D, S226D,
S227D, S228D, S229D, S230D, S231D,
S232D, S233D, S234D, S235D, S236D,
S237D, S238D, S239D, S240D, S241D,
S242D, S243D, S244D, S245D, S246D,
S247D, S248D, S249D, S250D, S251D,
S252D, S253D, S254D, S255D, S256D,
S257D, S258D, S259D, S260D, S261D,
S262D, S263D, S264D, S265D, S266D,
S267D, S268D, S269D, S270D, S271D,
S272D, S273D, S274D, S275D, S276D,
S277D, S278D, S279D, S280D, S281D,
S282D, S283D, S284D, S285D, S286D,
S287D, S288D, S289D, S290D, S291D,
S292D, S293D, S294D, S295D, S296D,
S297D, S298D, S299D, S300D, S301D,
S302D, S303D, S304D, S305D, S306D,
S307D, S308D, S309D, S310D, S311D,
S312D, S313D, S314D, S315D, S316D,
S317D, S318D, S319D, S320D, S321D,
S322D, S323D, S324D, S325D, S326D,
S327D, S328D, S329D, S330D, S331D,
S332D, S333D, S334D, S335D, S336D,
S337D, S338D, S339D, S340D, S341D,
S342D, S343D, S344D, S345D, S346D,
S347D, S348D, S349D, S350D, S351D,
S352D, S353D, S354D, S355D, S356D,
S357D, S358D, S359D, S360D, S361D,
S362D, S363D, S364D, S365D, S366D,
S367D, S368D, S369D, S370D, S371D,
S372D, S373D, S374D, S375D, S376D,
S377D, S378D, S379D, S380D, S381D,
S382D, S383D, S384D, S385D, S386D,
S387D, S388D, S389D, S390D, S391D,
S392D, S393D, S394D, S395D, S396D,
S397D, S398D, S399D, S400D, S401D,
S402D, S403D, S404D, S405D, S406D,
S407D, S408D, S409D, S410D, S411D,
S412D, S413D, S414D, S415D, S416D,
S417D, S418D, S419D, S420D, S421D,
S422D, S423D, S424D, S425D, S426D,
S427D, S428D, S429D, S430D, S431D,
S432D, S433D, S434D, S435D, S436D,
S437D, S438D, S439D, S440D, S441D,
S442D, S443D, S444D, S445D, S446D,
S447D, S448D, S449D, S450D, S451D,
S452D, S453D, S454D, S455D, S456D,
S457D, S458D, S459D, S460D, S461D,
S462D, S463D, S464D, S465D, S466D,
S467D, S468D, S469D, S470D, S471D,
S472D, S473D, S474D, S475D, S476D,
S477D, S478D, S479D, S480D, S481D,
S482D, S483D, S484D, S485D, S486D,
S487D, S488D, S489D, S490D, S491D,
S492D, S493D, S494D, S495D, S496D,
S497D, S498D, S499D, S500D, S501D,
S502D, S503D, S504D, S505D, S506D,
S507D, S508D, S509D, S510D, S511D,
S512D, S513D, S514D, S515D, S516D,
S517D, S518D, S519D, S520D, S521D,
S522D, S523D, S524D, S525D, S526D,
S527D, S528D, S529D, S530D, S531D,
S532D, S533D, S534D, S535D, S536D,
S537D, S538D, S539D, S540D, S541D,
S542D, S543D, S544D, S545D, S546D,
S547D, S548D, S549D, S550D, S551D,
S552D, S553D, S554D, S555D, S556D,
S557D, S558D, S559D, S560D, S561D,
S562D, S563D, S564D, S565D, S566D,
S567D, S568D, S569D, S570D, S571D,
S572D, S573D, S574D, S575D, S576D,
S577D, S578D, S579D, S580D, S581D,
S582D, S583D, S584D, S585D, S586D,
S587D, S588D, S589D, S590D, S591D,
S592D, S593D, S594D, S595D, S596D,
S597D, S598D, S599D, S600D, S601D,
S602D, S603D, S604D, S605D, S606D,
S607D, S608D, S609D, S610D, S611D,
S612D, S613D, S614D, S615D, S616D,
S617D, S618D, S619D, S620D, S621D,
S622D, S623D, S624D, S625D, S626D,
S627D, S628D, S629D, S630D, S631D,
S632D, S633D, S634D, S635D, S636D,
S637D, S638D, S639D, S640D, S641D,
S642D, S643D, S644D, S645D, S646D,
S647D, S648D, S649D, S650D, S651D,
S652D, S653D, S654D, S655D, S656D,
S657D, S658D, S659D, S660D, S661D,
S662D, S663D, S664D, S665D, S666D,
S667D, S668D, S669D, S670D, S671D,
S672D, S673D, S674D, S675D, S676D,
S677D, S678D, S679D, S680D, S681D,
S682D, S683D, S684D, S685D, S686D,
S687D, S688D, S689D, S690D, S691D,
S692D, S693D, S694D, S695D, S696D,
S697D, S698D, S699D, S700D, S701D,
S702D, S703D, S704D, S705D, S706D,
S707D, S708D, S709D, S710D, S711D,
S712D, S713D, S714D, S715D, S716D,
S717D, S718D, S719D, S720D, S721D,
S722D, S723D, S724D, S725D, S726D,
S727D, S728D, S729D, S730D, S731D,
S732D, S733D, S734D, S735D, S736D,
S737D, S738D, S739D, S740D, S741D,
S742D, S743D, S744D, S745D, S746D,
S747D, S748D, S749D, S750D, S751D,
S752D, S753D, S754D, S755D, S756D,
S757D, S758D, S759D, S760D, S761D,
S762D, S763D, S764D, S765D, S766D,
S767D, S768D, S769D, S770D, S771D,
S772D, S773D, S774D, S775D, S776D,
S777D, S778D, S779D, S780D, S781D,
S782D, S783D, S784D, S785D, S786D,
S787D, S788D, S789D, S790D, S791D,
S792D, S793D, S794D, S795D, S796D,
S797D, S798D, S799D, S800D, S801D,
S802D, S803D, S804D, S805D, S806D,
S807D, S808D, S809D, S810D, S811D,
S812D, S813D, S814D, S815D, S816D,
S817D, S818D, S819D, S820D, S821D,
S822D, S823D, S824D, S825D, S826D,
S827D, S828D, S829D, S830D, S831D,
S832D, S833D, S834D, S835D, S836D,
S837D, S838D, S839D, S840D, S841D,
S842D, S843D, S844D, S845D, S846D,
S847D, S848D, S849D, S850D, S851D,
S852D, S853D, S854D, S855D, S856D,
S857D, S858D, S859D, S860D, S861D,
S862D, S863D, S864D, S865D, S866D,
S867D, S868D, S869D, S870D, S871D,
S872D, S873D, S874D, S875D, S876D,
S877D, S878D, S879D, S880D, S881D,
S882D, S883D, S884D, S885D, S886D,
S887D, S888D, S889D, S890D, S891D,
S892D, S893D, S894D, S895D, S896D,
S897D, S898D, S899D, S900D, S901D,
S902D, S903D, S904D, S905D, S906D,
S907D, S908D, S909D, S910D, S911D,
S912D, S913D, S914D, S915D, S916D,
S917D, S918D, S919D, S920D, S921D,
S922D, S923D, S924D, S925D, S926D,
S927D, S928D, S929D, S930D, S931D,
S932D, S933D, S934D, S935D, S936D,
S937D, S938D, S939D, S940D, S941D,
S942D, S943D, S944D, S945D, S946D,
S947D, S948D, S949D, S950D, S951D,
S952D, S953D, S954D, S955D, S956D,
S957D, S958D, S959D, S960D, S961D,
S962D, S963D, S964D, S965D, S966D,
S967D, S968D, S969D, S970D, S971D,
S972D, S973D, S974D, S975D, S976D,
S977D, S978D, S979D, S980D, S981D,
S982D, S983D, S984D, S985D, S986D,
S987D, S988D, S989D, S990D, S991D,
S992D, S993D, S994D, S995D, S996D,
S997D, S998D, S999D, S1000D, S1001D,
S1002D, S1003D, S1004D, S1005D, S1006D,
S1007D, S1008D, S1009D, S1010D, S1011D,
S1012D, S1013D, S1014D, S1015D, S1016D,
S1017D, S1018D, S1019D, S1020D, S1021D,
S1022D, S1023D, S1024D, S1025D, S1026D,
S1027D, S1028D, S1029D, S1030D, S1031D,
S1032D, S1033D, S1034D, S1035D, S1036D,
S1037D, S1038D, S1039D, S1040D, S1041D,
S1042D, S1043D, S1044D, S1045D, S1046D,
S1047D, S1048D, S1049D, S1050D, S1051D,
S1052D, S1053D, S1054D, S1055D, S1056D,
S1057D, S1058D, S1059D, S1060D, S1061D,
S1062D, S1063D, S1064D, S1065D, S1066D,
S1067D, S1068D, S1069D, S1070D, S1071D,
S1072D, S1073D, S1074D, S1075D, S1076D,
S1077D, S1078D, S1079D, S1080D, S1081D,
S1082D, S1083D, S1084D, S1085D, S1086D,
S1087D, S1088D, S1089D, S1090D, S1091D,
S1092D, S1093D, S1094D, S1095D, S1096D,
S1097D, S1098D, S1099D, S1100D, S1101D,
S1102D, S1103D, S1104D, S1105D, S1106D,
S1107D, S1108D, S1109D, S1110D, S1111D,
S1112D, S1113D, S1114D, S1115D, S1116D,
S1117D, S1118D, S1119D, S1120D, S1121D,
S1122D, S1123D, S1124D, S1125D, S1126D,
S1127D, S1128D, S1129D, S1130D, S1131D,
S1132D, S1133D, S1134D, S1135D, S1136D,
S1137D, S1138D, S1139D, S1140D, S1141D,
S1142D, S1143D, S1144D, S1145D, S1146D,
S1147D, S1148D, S1149D, S1150D, S1151D,
S1152D, S1153D, S1154D, S1155D, S1156D,
S1157D, S1158D, S1159D, S1160D, S1161D,
S1162D, S1163D, S1164D, S1165D, S1166D,
S1167D, S1168D, S1169D, S1170D, S1171D,
S1172D, S1173D, S1174D, S1175D, S1176D,
S1177D, S1178D, S1179D, S1180D, S1181D,
S1182D, S1183D, S1184D, S1185D, S1186D,
S1187D, S1188D, S1189D, S1190D, S1191D,
S1192D, S1193D, S1194D, S1195D, S1196D,
S1197D, S1198D, S1199D, S1200D, S1201D,
S1202D, S1203D, S1204D, S1205D, S1206D,
S1207D, S1208D, S1209D, S1210D, S1211D,
S1212D, S1213D, S1214D, S1215D, S1216D,
S1217D, S1218D, S1219D, S1220D, S1221D,
S1222D, S1223D, S1224D, S1225D, S1226D,
S1227D, S1228D, S1229D, S1230D, S1231D,
S1232D, S1233D, S1234D, S1235D, S1236D,
S1237D, S1238D, S1239D, S1240D, S1241D,
S1242D, S1243D, S1244D, S1245D, S1246D,
S1247D, S1248D, S1249D, S1250D, S1251D,
S1252D, S1253D, S1254D, S1255D, S1256D,
S1257D, S1258D, S1259D, S1260D, S1261D,
S1262D, S1263D, S1264D, S1265D, S1266D,
S1267D, S1268D, S1269D, S1270D, S1271D,
S1272D, S1273D, S1274D, S1275D, S1276D,
S1277D, S1278D, S1279D, S1280D, S1281D,
S1282D, S1283D, S1284D, S1285D, S1286D,
S1287D, S1288D, S1289D, S1290D, S1291D,
S1292D, S1293D, S1294D, S1295D, S1296D,
S1297D, S1298D, S1299D, S1300D, S1301D,
S1302D, S1303D, S1304D, S1305D, S1306D,
S1307D, S1308D, S1309D, S1310D, S1311D,
S1312D, S1313D, S1314D, S1315D, S1316D,
S1317D, S1318D, S1319D, S1320D, S1321D,
S1322D, S1323D, S1324D, S1325D, S1326D,
S1327D, S1328D, S1329D, S1330D, S1331D,
S1332D, S1333D, S1334D, S1335D, S1336D,
S1337D, S1338D, S1339D, S1340D, S1341D,
S1342D, S1343D, S1344D, S1345D, S1346D,
S1347D, S1348D, S1349D, S1350D, S1351D,
S1352D, S1353D, S1354D, S1355D, S1356D,
S1357D, S1358D, S1359D, S1360D, S1361D,
S1362D, S1363D, S1364D, S1365D, S1366D,
S1367D, S1368D, S1369D, S1370D, S1371D,
S1372D, S1373D, S1374D, S1375D, S1376D,
S1377D, S1378D, S1379D, S1380D, S1381D,
S1382D, S1383D, S1384D, S1385D, S1386D,
S1387D, S1388D, S1389D, S1390D, S1391D,
S1392D, S1393D, S1394D, S1395D, S1396D,
S1397D, S1398D, S1399D, S1400D, S1401D,
S1402D, S1403D, S1404D, S1405D, S1406D,
S1407D, S1408D, S1409D, S1410D, S1411D,
S1412D, S1413D, S1414D, S1415D, S1416D,
S1417D, S1418D, S1419D, S1420D, S1421D,
S1422D, S1423D, S1424D, S1425D, S1426D,
S1427D, S1428D, S1429D, S1430D, S1431D,
S1432D, S1433D, S1434D, S1435D, S1436D,
S1437D, S1438D, S1439D, S1440D, S1441D,
S1442D, S1443D, S1444D, S1445D, S1446D,
S1447D, S1448D, S1449D, S1450D, S1451D,
S1452D, S1453D, S1454D, S1455D, S1456D,
S1457D, S1458D, S1459D, S1460D, S1461D,
S1462D, S1463D, S1464D, S1465D, S1466D,
S1467D, S1468D, S1469D, S1470D, S1471D,
S1472D, S1473D, S1474D, S1475D, S1476D,
S1477D, S1478D, S1479D, S1480D, S1481D,
S1482D, S1483D, S1484D, S1485D, S1486D,
S1487D, S1488D, S1489D, S1490D, S1491D,
S1492D, S1493D, S1494D, S1495D, S1496D,
S1497D, S1498D, S1499D, S1500D, S1501D,
S1502D, S1503D, S1504D, S1505D, S1506D,
S1507D, S1508D, S1509D, S1510D, S1511D,
S1512D, S1513D, S1514D, S1515D, S1516D,
S1517D, S1518D, S1519D, S1520D, S1521D,
S1522D, S1523D, S1524D, S1525D, S1526D,
S1527D, S1528D, S1529D, S1530D, S1531D,
S1532D, S1533D, S1534D, S1535D, S1536D,
S1537D, S1538D, S1539D, S1540D, S1541D,
S1542D, S1543D, S1544D, S1545D, S1546D,
S1547D, S1548D, S1549D, S1550D, S1551D,
S1552D, S1553D, S1554D, S1555D, S1556D,
S1557D, S1558D, S1559D, S1560D, S1561D,
S1562D, S1563D, S1564D, S1565D, S1566D,
S1567D, S1568D, S1569D, S1570D, S1571D,
S1572D, S1573D, S1574D, S1575D, S1576D,
S1577D, S1578D, S1579D, S1580D, S1581D,
S1582D, S1583D, S1584D, S1585D, S1586D,
S1587D, S1588D, S1589D, S1590D, S1591D,
S1592D, S1593D, S1594D, S1595D, S1596D,
S1597D, S1598D, S1599D, S1600D, S1601D,
S1602D, S1603D, S1604D, S1605D, S1606D,
S1607D, S1608D, S1609D, S1610D, S1611D,
S1612D, S1613D, S1614D, S1615D, S1616D,
S1617D, S1618D, S1619D, S1620D, S1621D,
S1622D, S1623D, S1624D, S1625D, S1626D,
S1627D, S1628D, S1629D, S1630D, S1631D,
S1632D, S1633D, S1634D, S1635D, S1636D,
S1637D, S1638D, S1639D, S1640D, S1641D,
S1642D, S1643D, S1644D, S1645D, S1646D,
S1647D, S1648D, S1649D, S1650D, S1651D,
S1652D, S1653D, S1654D, S1655D, S1656D,
S1657D, S1658D, S1659D, S1660D, S1661D,
S1662D, S1663D, S1664D, S1665D, S1666D,
S1667D, S1668D, S1669D, S1670D, S1671D,
S1672D, S1673D, S1674D, S1675D, S1676D,
S1677D, S1678D, S1679D, S1680D, S1681D,
S1682D, S1683D, S1684D, S1685D, S1686D,
S1687D, S1688D, S1689D, S1690D, S1691D,
S1692D, S1693D, S1694D, S1695D, S1696D,
S1697D, S1698D, S1699D, S1700D, S1701D,
S1702D, S1703D, S1704D, S1705D, S1706D,
S1707D, S1708D, S1709D, S1710D, S1711D,
S1712D, S1713D, S1714D, S1715D, S1716D,
S1717D, S1718D, S1719D, S1720D, S



Enter Map Description

The data provided is compiled from various sources and is NOT warranted as to its accuracy or sufficiency by the City of Surrey. The City of Surrey does not warrant the accuracy or sufficiency of the data provided and the user assumes all responsibility for any errors or omissions. Use and distribution of this map is subject to all copyright and disclaimer notices at cosmos.surrey.ca.

Scale: 1:1,066

Map created on: Thursday, 14 April 2011







Secured by
ADT

Secured by
ADT

PENNZOIL
PENNZOIL SAE 5W-30 MOTOR OIL
470.503-45
1000
1000

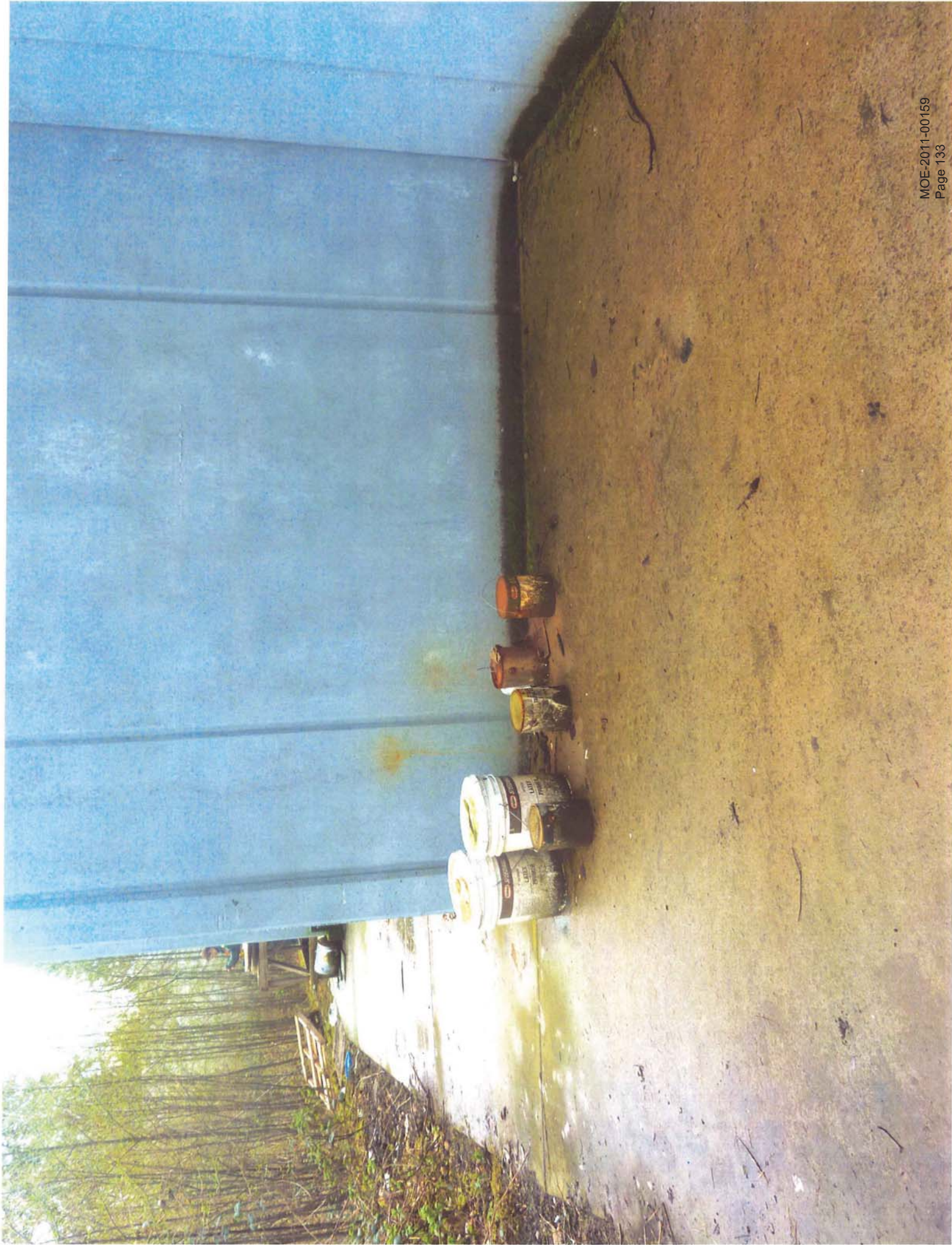
82



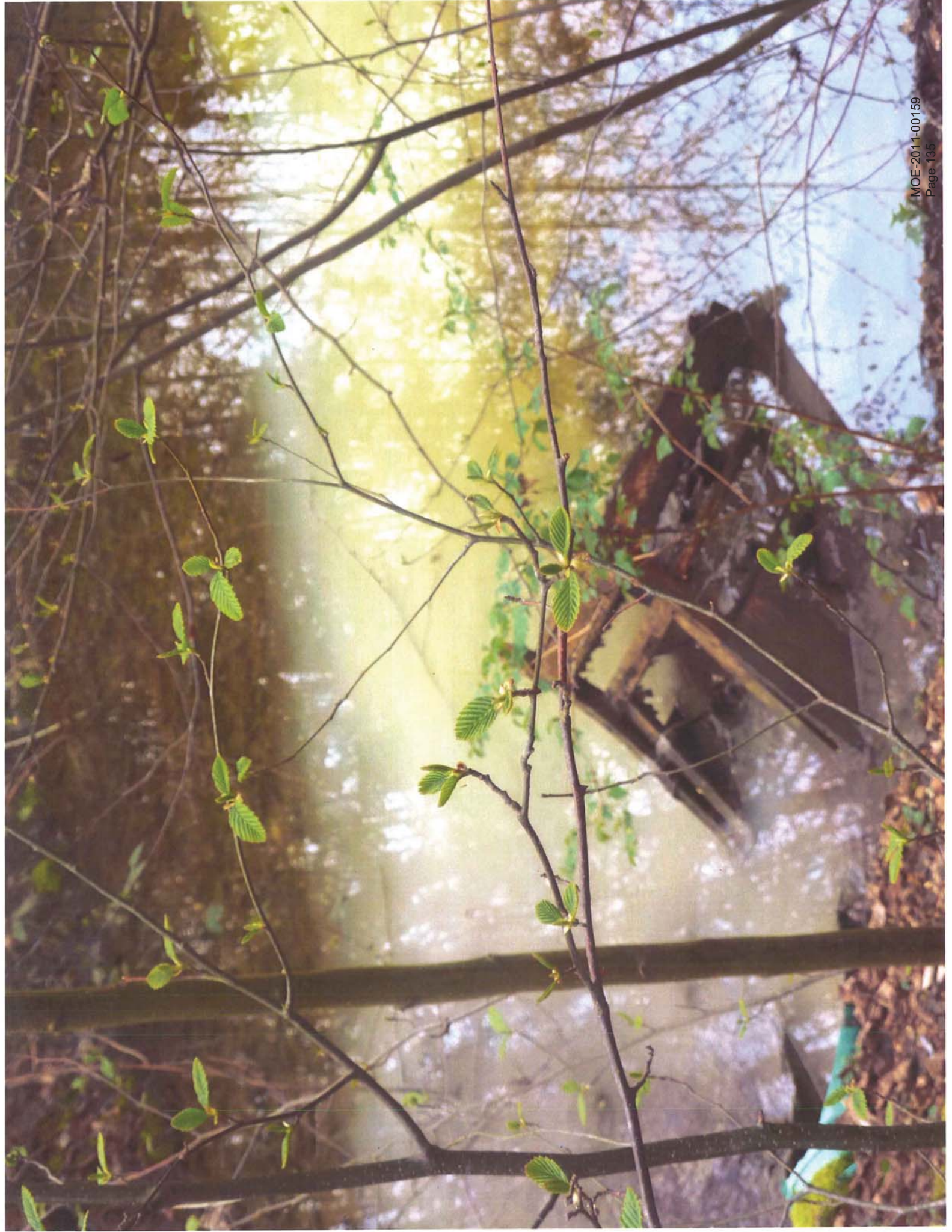


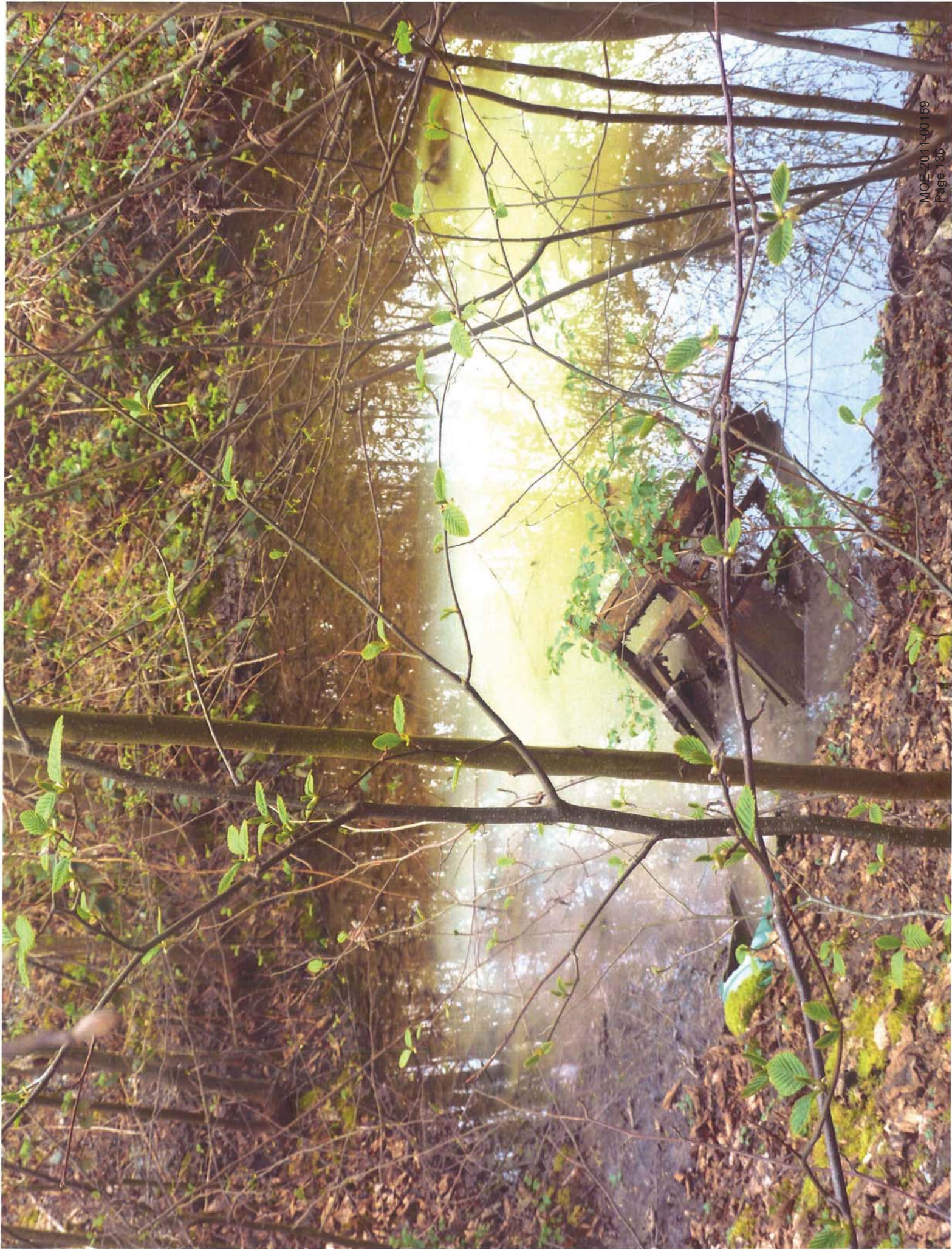






























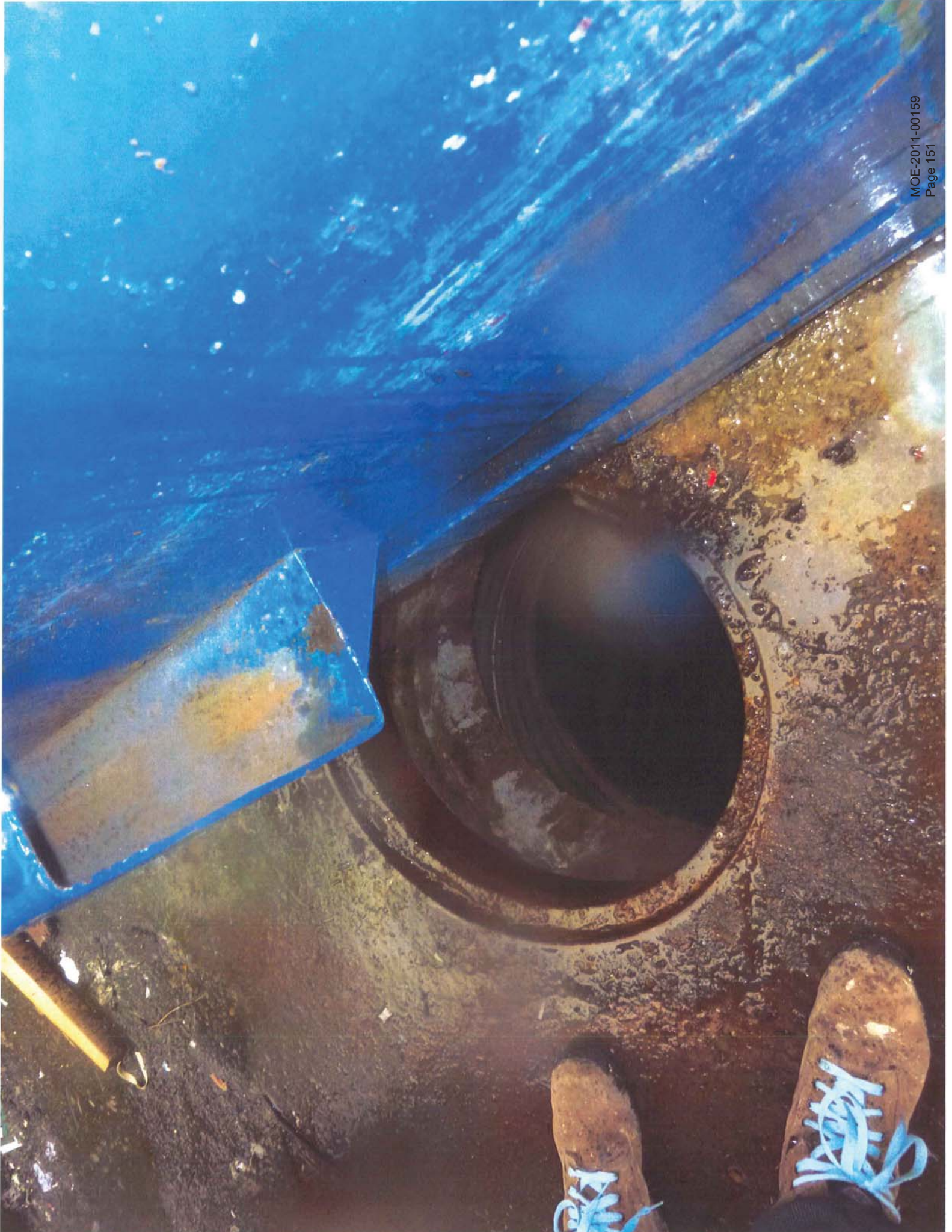


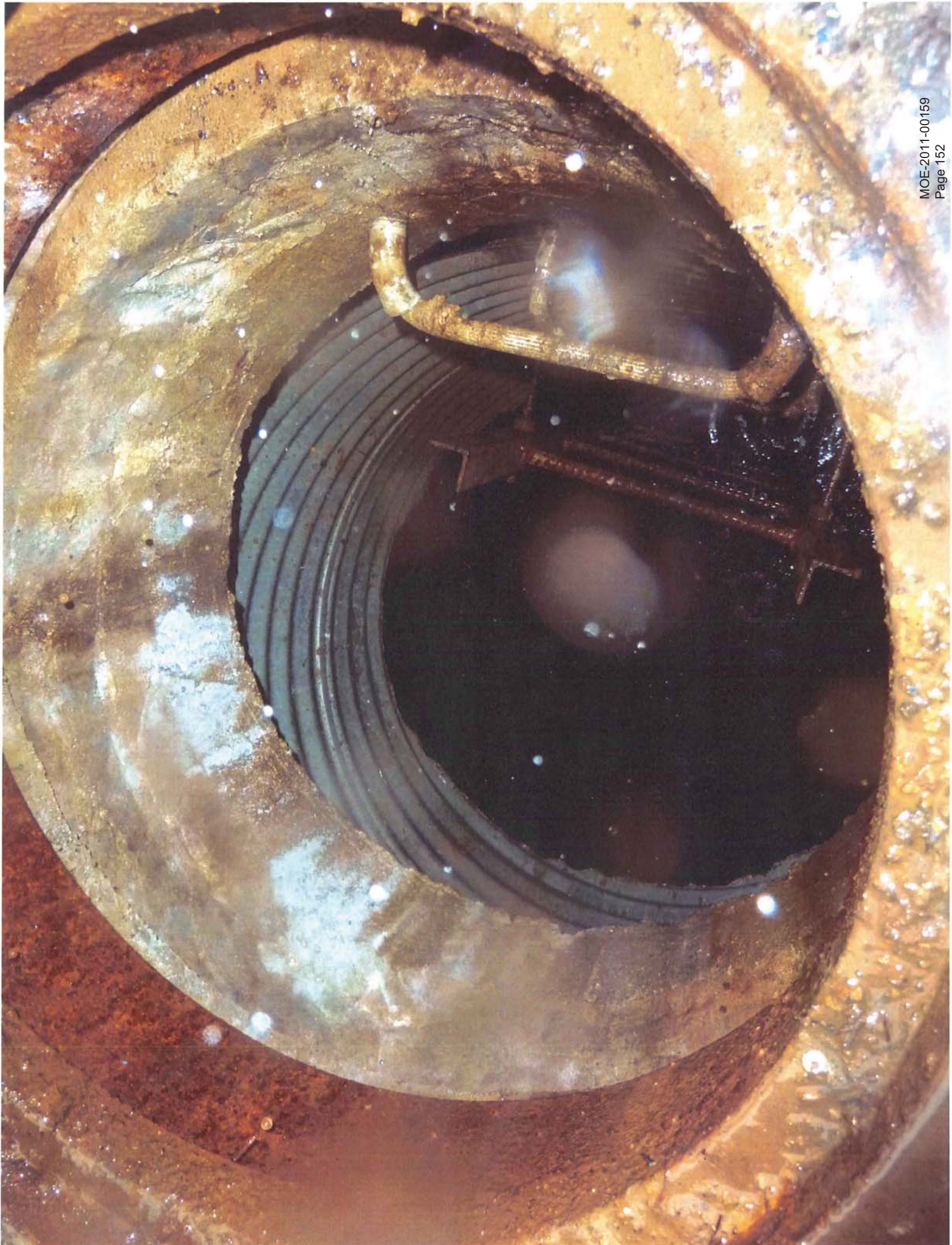


















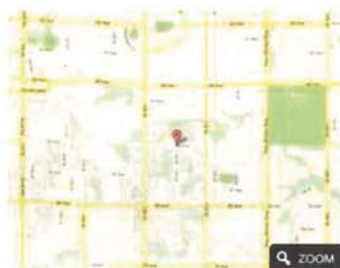


Could You Use

[LISTEN LIVE](#)
Insider Club POWERED BY WAVES COFFEE HOUSE
 USERNAME _____ PASSWORD _____

[Register](#)
[Search](#)
[More on the Insider Club](#)
[Forgot Your Password](#)
[HOME](#) | [LISTEN](#) | [NEWS](#) | [TRAFFIC](#) | [WEATHER](#) | [Business](#) | [Sports](#) | [Entertainment](#) | [Contests & Insider Club](#) | [Inside 1130](#) | [Mobile](#)
[Local](#) | [National](#) | [World](#) | [Subscribe to Alerts](#) | [Tech Knowledge](#) | [Year in Pictures](#) | 2010

[Home](#) | [News](#) | [Local](#) | Chemical spill in Surrey has several businesses still closed

 Text: [A](#) [Share](#)


The site of chemical spill at 84th Avenue and 130th Street

COURTESY OF GOOGLE MAPS

Chemical spill in Surrey has several businesses still closed

The Environment Ministry is not sure when those shops will re-open

Shane Bigham Apr 14, 2011 18:06:59 PM

 1 [Like](#)

SURREY (NEWS1130) - Dozens of Surrey businesses closed by a fire and chemical spill Monday will have to wait to find out when they can reopen. The spill happened at Precision Plating on 84th Avenue near 130th, in a large warehouse-like complex.

Senior Environmental Emergency Response Officer Harold Riedler says the mess entered the storm drain and nearby creek, and includes chromic and sulphuric acids.

He says the acids are very toxic to aquatic life, but no fish-kill has been reported. Riedler credits Surrey Fire for quickly responding to the call, blocking storm drains and preventing more chemicals from reaching the sensitive creek.

Many shop owners are frustrated, saying they haven't been able to get answers about when they will be able to resume business. Roger Dayal owns an auto repair shop and says that's not the only problem they have because of the spill. "Bylaw officers are down here pointing fingers at everybody. You can't do this now, you can't do that now ... because of this environmental spill".

Dayal says he is losing two or three thousand dollars each day his business is closed.

 Text: [A](#) [Share](#)

Add New Comment

Title: _____ Name: _____

Comment: _____

By posting your comment you agree to the News1130 [terms of service](#) and [privacy policy](#).

[SUBMIT](#)

User Comments

[TRAFFIC](#) [WEATHER](#)
Destination HYUNDAI
VANCOUVER


Clark Dr. south of East 1st Avenue
All Cameras and Manage Favorites

[Latest Traffic Report](#)
WeightWatchers
Online CANADA

WEIGHT WATCHERS
ONLINE HAD THE
TOOLS TO KEEP
ME ON TRACK
WHEREVER I WAS.

Start today. 100 lbs lost.

[START NOW](#)

WeightWatchers
Online CANADA

*People on plan can
expect to lose 1-2 lbs/wk

Chemical Spill

Harold Reidler is the best chemical spill responder in BC, bar none. The public are fortunate to have such dedicated public servant looking out for them.

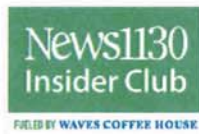
Que Tal Apr 14, 2011 10:31 PM

[More on News1130](#)
[Local News](#)
[Blogs](#)
[Movie Reviews](#)
[Events](#)
[Bamoseda](#)
Features

News1130 Business Profile



Tell us what you think!



News1130 Insider Club



Advertiser Directory

Most Popular [Read](#) [Commented](#) [Emailed](#)
[Today](#) [This Week](#) [This Month](#) [All](#)

- [Porn performer found HIV-positive, LA-area porn industry shutters...](#)
- [Vancouver no longer most livable city](#)
- [Teen trick rider breaks foot during show at PNE](#)
- [VPD issues warning after another East Van sexual assault](#)
- [Driver in girl's jet ski death was her brother: police](#)

**News Traffic****BREAKING NEWS ALERTS**

Subscribe and be the first to know!

- Text alerts sent to your inbox or other e-mail enabled mobile devices.
- Breaking news, weather and traffic stories about your city and the world around you.
- Seven days a week, 24 hours a day

[SUBSCRIBE NOW!](#)

[@news1130radio](#) · 17.3K followers

[@news1130traffic](#) · 3,314 followers

[Like](#)

1432 likes. [Sign Up](#) to see what your friends like.

News1130

[Home](#)
[About](#)
[Contact Us](#)
[Insider Club](#)
[Vancouver Advertiser Directory](#)
[FAQ](#)
[Site Map](#)

Local News Radio Across Canada

Calgary, AB -- 660News
 Kitchener, ON -- 570News
 Toronto, ON -- 680News
 Ottawa, ON -- 1310News
 Saint John, NB -- News 88.9
 Moncton, NB -- News 91.9
 Halifax, NS -- News 95.7

SITES WE RECOMMEND

96.9 JACK FM - Vancouver



SONIC



BT - Vancouver

CityLine

Riedler, Harold ENV:EX

From: Enick, Oana V ENV:EX
Sent: Friday, April 15, 2011 3:19 PM
To: 'SThompson@surrey.ca'; 'Isaxton@surrey.ca'; 'KJ.Sadler@ec.gc.ca'; 'pia.rasmussen@ec.gc.ca'; Fuller, Ryan ENV:EX; Riedler, Harold ENV:EX; Kervel, John ENV:EX
Subject: April 13 site inspection at 13045 84th Avenue, Surrey, BC

Hello all:

Thank you all for joining us yesterday at the Surrey site. Pia, it was nice to see you again, KJ, Stacey and Lauralene it was very nice to meet you, Harold, Ryan and John, always nice to see you.

For your information, here is a current status summary:

1. City of Surrey staff will confirm discharge routes on the property, regarding contamination from the fire and from Oceanic Stones. Stacey, I thought I heard Harold say that you'll communicate with him for follow-up on that issue?
2. Under a City of Surrey bylaw, the strata has been asked to clean up all of the outside storage area (that is to occur within 7 days, right Lauralene)? As of this morning, I understand that strata property management is working with Hazco to secure the punctured, corrosives drum as well.
3. Since this is a fish-bearing creek, Environment Canada staff will follow-up to identify if any further action is needed. Pia, KJ, I'm sorry, but I can't recall what the outcome was here.
4. There was discharge of commercial effluent to the pond and the creek from Oceanic Stones. Further, there was effluent discharge to the storm sewer directly in front of the facility. The company was advised by the Ministry of Environment staff that the discharge to the creek needed to stop. Lauralene, Stacey, I'm not sure what the City of Surrey advised the company in regards to both the discharges to the creek and to the sewer.
5. Regarding the fire at Precision Plating, there was a stakeholders meeting today, involving the following parties: The fire department, Hazco, strata property management, Precision Plating insurance company, Ministry of Environment, City of Surrey, remediation contractor and industrial hygienist contractor. Outcomes of this meeting includes the following:
 - a. Property manager will retain a Qualified Professional to identify sections of the property, drainage works, and impacted receiving environment that were adversely impacted by the fire and subsequent chemical spill,
 - b. By Monday, April 18th, there will be a plan to shrink the evacuation zone,
 - c. The abandoned corrosives drum will be managed, under contract, by Hazco,
 - d. The strata management are pursuing litigation against Oceanic Stones to address a former clean-up of a blocked storm sewer.
6. City of Surrey by-law enforcement officers will visit unit 102 today, following a 24-hrs access notice, as the owners of this unit declined access to the site yesterday.

Thank you all for all of your time and effort. Please feel free to contact me if you need further details and/or pictures.

Best regards,

Oana Enick, P.Ag., M.E.T.
Environmental Protection Officer
Environmental Management
Ministry of Environment
Lower Mainland Region
ph: (604) 582-5270 fax: (604) 584-9751

Fuller, Ryan ENV:EX

From: Riedler, Harold ENV:EX
Sent: Thursday, April 14, 2011 5:41 PM
To: ENV !Emergency Incident Contacts
Cc: Knox, Graham ENV:EX; Fuller, Ryan ENV:EX; Kervel, John ENV:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update #2 - April 14, 2011 @ 4:00 PM

The following provides the current status in regard to remedial response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- All 15 units within the strata complex remain vacant until the evacuation notice is rescinded by the Fire Department and Ministry of Environment.
- The fire department will not allow occupancy until the shut-off fire sprinkling system is approved by the fire department to be turned back on. The sprinkling system and power must remain off to the building to ensure that accidental activation of the system does not spread contamination within the building and does not pose a hazard to the hazardous waste remediation contractor working in proximity to power transformers and spilled and electrically conductive chrome and nickel plating solutions.
- Vehicle access is currently denied to both 13045 and 13055 commercial strata buildings to ensure that fire department and ambulatory emergency vehicles have full access to the site as a contingency. The potential risk for fire in building 13045 remains high until the entire contaminated section of that building is treated with a neutralizing agent.
- From the perspective concerning fire prevention, all impacted units neighbouring the Precision Plating Ltd. unit within 13045 have been treated and stabilized.
- The hazardous waste remediation contractor is currently treating and stabilizing the remaining high risk Precision Plating Ltd. unit #101 and should have this fire prevention work completed by this evening.
- Hydro and certified industrial health consultants will be retained tomorrow to determine what work remains to allow restoration of power, reactivation of the sprinkling system (in consultation with the Fire Department) and reoccupation.
- An environmental consultant will be retained to assess the potential site contamination in regard to the Contaminated Sites Regulation and impact to the receiving environment including Bear Creek, the creek that received some of the spilled material and is classified as having a high fisheries value.
- The property manager, Paragon Realty Corporation, will attend a scheduled meeting at 9:00 AM April 15, 2011 with representatives from the Fire Department, Insurance Companies (for responsible party and strata property), City of Surrey Engineering, Hazardous Waste Remediation Contractor, Property Restoration Contractor and MOE to obtain the most current status in regard to the remediation and to begin developing a Reoccupation Plan.
- Shrinking the security zone to allow for full vehicle access to strata building 13055 – 84th Avenue will be discussed during the 9:00 AM April 15th meeting.
- The Property Manager has agreed to communicate directly with the strata occupants and will provide timely updates to reveal the progress made and planned to achieve reoccupation to address anxiety currently being expressed by the impacted strata business owners to the media.
- Representatives from Environment Canada Inspection and Enforcement, City of Surrey Bylaw Enforcement & Environment Department, MOE Environmental Protection & Environmental Emergency Management inspected strata units within the 13055 84th Avenue building to address noncompliance issues pertaining to improper management and disposal of commercial waste and hazardous materials that was discovered during the response to the neighbouring 13045 84th Avenue chromic acid spill incident by the attending MOE Emergency Response Officer.

An additional update on progress will be provided after the 9:00 AM April 15th meeting.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca



A GCS Company

Emergency Response

www.hazco.com



HAZCO Incident Response Summary

Date: 12 April 2011

Hazco Project Number: 2D-4300-134

Report Prepared By: C. Adderley

Phone: 604.214.7000

Incident Location: Precision Plating – 101, 13045 84th Ave, Surrey, BC

Date & Time of Request for Assistance: 12 April 2011 @ 11:40hrs

Caller Name, Organization & Contact Number: Rob WOLFE, Project Manager Incredible Restorations. 604-639-0990. Indication is made that Hazco will be retained by Paragon Realty Corporation and Alfred MARCHI of such confirmed upon arrival at site.

Incident Description: Reference Hazco Incident Summary 2D4300-133: Fire had occurred in plating shop, extinguished by sprinkler system which flooded open top tanks causing spillage, primarily of Chromic Acid.

Details provided:

- Further to the initial response described in Incident Summary 2D-4300-133, impacts to the remainder of the strata units at 13045 84th Ave required assessment and immediate remedial measures to mitigate the risk of spontaneous ignition to the contact of spilled material which has strong oxidizing properties, and organic materials located throughout the units (contents and structure).

Personnel & Equipment Dispatched:

- Shawn BARTON (Project Manager)
- Bret GOLLER (Supervisor)
- S22 (Hazmat Technician)
- S22 (Hazmat Technician)
- S22 (Hazmat Technician)
- S22 (Hazmat Technician)
- S22 (Hazmat Technician)
- S22 (Hazmat Technician)

HAZCO ENVIRONMENTAL SERVICES
13511 VULCAN WAY, RICHMOND, BRITISH COLUMBIA V6V 1K4
TELEPHONE (604) 214-7000 • FAX (604) 214-7017
www.hazco.com





Emergency Response

www.hazco.com

- **S22** (Vacuum Truck Driver)
- Pickup Truck 87
- Pickup Truck 17
- Pickup Truck 318
- Hazmat Response Trailer
- Vacuum Truck 007

Third Party Expense:

- Air Liquide (Breathing Air K Cylinders)

Timeline:

12th April 2011

- 19:00hrs: Hazco crew on site at Precision Plating. Planning of current scope of work. Site set up.
- 20:30hrs: Hazco safety tailgate meeting conducted.
- 20:45hrs: Hazco crew set up and dressed in appropriate Personal Protective Equipment (PPE) – Level B: Kapplar Zytron Chemical Protective Suit with Self Contained Breathing Apparatus (SCBA).
- 21:00hrs: Hazco crew conducted reconnaissance of interior and exterior of building. Produced map of spill plume, photos and video. Crew opened doors to units in order to gain access through main interior corridor for future phases of work.
- 22:00 hrs: Hazco PM liaised with MOE and Surrey Fire Department to discuss and plan response strategies in the event of fire. SFD left on alert and departs.
- 23:00hrs: Hazco crew completed recon and were decontaminated upon exit of building. Maps and photos reviewed.
- 23:30hrs: Photos reviewed with BC Hydro. Interior recon of Unit 101 showed several 600V floor mount, step down transformers present within several mm of the spilled product. Due to the arcing potential and high conductivity of the spilled material, Hazco PM evacuates personnel from hot & warm zones and request an immediate power disconnect.
- 23:45: Hydro performs disconnect. Hazco PM advises MOE, Canstar and Surrey Fire Department that due to safety concerns. Site will be reassessed by light of day. Site is left as high risk for fire
- 00:00hrs: Hazco crew packed up gear and equipment
- 01:05hrs: Hazco crew demobilizes from site.
- 02:00hrs: Completion of work day.

13th April 2011





A CCS Company



Emergency Response

www.hazco.com

- 14:00hrs: Hazco crew begins neutralization of interior spill with Soda Ash applied to all affected areas except Precision Plating / origin of spill. Intent is to reduce overall potential of further reaction between product and impacted organic materials.
- 20:30hrs: Hazco crew completed final work cycle. All gear and equipment packed away.
- 21:00hrs: Hazco crew and equipment off site and return to Richmond yard.
- Site is left as high risk with Surrey Fire Department.

14th April 2011

- 10:00hrs: Hazco crew arrived at Richmond yard to replenish equipment and PPE.
- 11:30hrs: Hazco crew leaves Richmond yard.
- 12:00hrs: Hazco crew arrives on site. Equipment and site set up. Received compressed breathing air bottles from Air Liquide. Hazco truck delivered UN Plastic drums and totes for containerization of materials in Precision Plating.
- 13:30hrs: Hazco safety tailgate meeting conducted.
- 14:15hrs: Hazco entry team begins pump out of impinged and suspect tanks, targeting oxidizing materials.
- 16:00hrs: Entry Team egresses and is replaced with second entry team.
- 00:50hrs: Hazco team demobilizes manpower and equipment from site

Other Comments:

- Field notes from Team Lead to be submitted 04/15 for work performed 16:00hrs-00:50hrs.
- All collected materials are labelled and TDG stickers affixed with information from field testing. Containers are temporarily stored in bay adjacent to plating shop.

Should you require more information, or have any questions, please do not hesitate to contact the undersigned directly at any time.

Shawn Barton, R.S.O.
Project Coordinator,
Emergency Response &

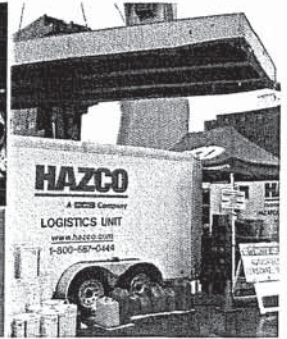
HAZCO ENVIRONMENTAL SERVICES
13511 VULCAN WAY, RICHMOND, BRITISH COLUMBIA V6V 1K4
TELEPHONE (604) 214-7000 • FAX (604) 214-7017
www.hazco.com



MOE 11-00159
Page 164

HAZCO

A **CCS** Company



Emergency Response

www.hazco.com

Confined Space Entry Services

HAZCO Environmental Services

A **CCS** Company

Office: (604) 214-7000

Direct: (604) 214-7096

Fax: (604) 214-7017

Mobile: (604) 290-7057

Email: sbarton@hazco.com

HAZCO

A **CCS** Company

PRELIMINARY

HAZCO ENVIRONMENTAL SERVICES
13511 VULCAN WAY, RICHMOND, BRITISH COLUMBIA V6V 1K4
TELEPHONE (604) 214-7000 • FAX (604) 214-7017
www.hazco.com



MOB 211-00159
Page 165



A CCS Company

Emergency Response

www.hazco.com



HAZCO Incident Response Summary

Date: 12 April 2011

Hazco Project Number: 2D-4300-133

Report Prepared By: C. Adderley

Phone: 604.214.7000

Incident Location: Precision Plating – 101, 13045 84th Ave, Surrey, BC

Date & Time of Request for Assistance: 12 April 2011 @ 09:05hrs

Caller Name, Organization & Contact Number: Miroslav Stankovic, Precision Plating

S22

Incident Description: Fire had occurred in plating shop, extinguished by sprinkler system which flooded open top tanks causing spillage, primarily of Chromic Acid.

Details provided:

- Unknown volume of Chromic Acid spilled in Precision Plating, migrated outside to parking lot and into drains. Two catch basins known to be affected, destination of interior floor drains and exterior catch basins unknown, and suspected to be causing immediate impact to storm outfall in creek adjacent to property on the north side.

Personnel & Equipment Dispatched:

- Shawn BARTON (Project Manager)
- Bret GOLLER (Supervisor)
- S22 (Hazmat Technician)
- S22 (Hazmat Technician)
- S22 (Hazmat Technician)
- S22 (Vacuum Truck Driver)
- Pickup Truck 87
- Pickup Truck 17
- Hazmat Response Trailer
- Vacuum Truck 007

HAZCO ENVIRONMENTAL SERVICES
13511 VULCAN WAY, RICHMOND, BRITISH COLUMBIA V6V 1K4
TELEPHONE (604) 214-7000 • FAX (604) 214-7017
www.hazco.com





A GCS Company

Emergency Response

www.hazco.com



Third Party Expense:

- McRae's Environmental – Pipe Flushing Truck

Timeline:

- 09:05hrs: Called received at Hazco switchboard from Miroslav Stankovic s.22 regarding a spill of Chromic and Sulphuric acid at Precision Plating
- 09:20hrs: Liaise with Harold Riedler, Ministry of Environment
- 09:30hrs: Hazco crew dispatched
- 10:15hrs: Hazco Project Manager arrived on site, Liaised with Surrey Fire Department, Fred Berg and Ministry of Environment Ryan Fuller and Harold Riedler. Hazco crew and equipment leave yard.
- Requested neutralization and wash down of paved apron north side of unit 101 (common area). Wash water to be collected for appropriate disposal. Two catch basins neutralized and purged and flush of connecting pipes.
- Water sample drawn from culvert outfall and retained by Hazco.
- 10:55hrs: Hazco crew arrived on site. Equipment set up.
- 11:00hrs: Hazco safety tailgate meeting conducted.
- 11:20hrs: Work commenced. Two technicians applied Soda Ash to affected area, agitated with brooms, pressure washed into catch basins and collected by vacuum truck.
- 13:00hrs: McRae's arrived on site. Assisted with pressure washing. Flushed pipes associated with affected catch basins.
- 19:40hrs: Completion of apron neutralization and cleaning.

Other Comments:

Analytical data is pending for waste material removed from site (2200L). Material was shipped as Leachable Toxic Waste for Chrome under a Section 52 Exemption issued verbally by Ministry of Environment representative Harold RIEDLER. Material is being held in quarantine at Hazco hazardous waste facility at 13511 Vulcan Way, Richmond BC.

Samples of the storm water discharge effluent have been retained by Hazco prior to initial cleanup efforts and immediately following the onset of precipitation.



HAZCO

A CCS Company

Emergency Response

www.hazco.com



Shawn Barton, R.S.O.
Project Coordinator,
Emergency Response &
Confined Space Entry Services

HAZCO Environmental Services
A CCS Company
Office: (604) 214-7000
Direct: (604) 214-7096
Fax: (604) 214-7017
Mobile: (604) 290-7057
Email: sbarton@hazco.com

HAZCO

A CCS Company

HAZCO ENVIRONMENTAL SERVICES
13511 VULCAN WAY, RICHMOND, BRITISH COLUMBIA V6V 1K4
TELEPHONE (604) 214-7000 • FAX (604) 214-7017
www.hazco.com



MOE 2001-00159
Page 168

MSDS by MSDS Number

/TD>

Our database contains over 10,000 MSDS representing over 80,000 unique product codes. Your search will be more successful if you fill in as much information as possible.

Univar USA
6100 Carillon Point
Kirkland WA 98033
425-889-3400

For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

MSDS Number:OZ4824 MSDS Version:002

002 04/09/98 CHROMIC ACID-FLAKE

PRODUCT NAME:
CHROMIC ACID-FLAKE

MSDS #: OZ4824

1. CHEMICAL PRODUCT IDENTIFICATION

ISSUE DATE : 01/01/98

PRODUCT NAME : CHROMIC ACID-FLAKE

24 HOUR EMERGENCY TELEPHONE : 1-800-733-3665

PRODUCT USE : WOOD TREATING, METAL FINISHING, PLATING, PIGMENTS,
CATALYSTS

CHEMICAL NAME : CHROMIUM TRIOXIDE

CHEMICAL FORMULA : CRO3

SYNONYMS/COMMON NAMES : CHROMIC ACID
CHROMIUM (VI) OXIDE
CHROMIC ANHYDRIDE

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER / NAME
1333-82-0 CHROMIUM OXIDE (CRO3)

EXPOSURE LIMITS	PERCENTAGE
PEL:0.1 MG/M3 CEILING AS CRO3	VOL ND
TLV:0.05 MG/M3, TWA, A1 AS CR	WT 99-100

COMMON NAMES:
CHROMIC ACID
CHROMIUM COMPOUND#
CHROMIUM TRIOXIDE

LISTED ON (LIST LEGEND BELOW):
00 02 06 08 11 14 21 22 25 50 51

CHEMICAL NAME USED IN THE SARA SECTION 313 LIST OF TOXIC CHEMICALS
(40 CFR - SECTION 372.65) IF DIFFERENT FROM CAS NAME.

LIST LEGEND	
00 TSCA INVENTORY	02 SARA TOXIC CHEM, SECTION 313
06 NTP "KNOWN HUMAN CARCINOGEN"	08 IARC HUMAN CARCINOGEN, GROUP 1
11 CA PROP 65 - CARCINOGEN	14 PA SPECIAL HAZ SUBSTANCE
21 NJ SPECIAL HEALTH HAZ SUB	22 CANADIAN DOMESTIC SUB LIST
25 TSCA SEC12 EXPORT NOTIFICATION	50 PHILIPPINES INVENTORY (PICCS)
51 EINECS	

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

*
 * STRONG OXIDIZER. CORROSIVE TO RESPIRATORY TRACT, EYES, SKIN AND
 * DIGESTIVE TRACT. CONTACT WITH BROKEN SKIN MAY RESULT IN ULCERS.
 * CONTACT CAN CAUSE SEVERE DAMAGE INCLUDING BURNS AND BLINDNESS.
 * MAY CAUSE KIDNEY AND LIVER DAMAGE. PROLONGED OR REPEATED
 * INHALATION MAY CAUSE ULCERATION OR PERFORATION OF NASAL SEPTUM.
 * MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.
 * POTENTIAL CANCER HAZARD. CONTAINS MATERIAL WHICH MAY CAUSE
 * CANCER. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE.
 *
 * SOLID DARK RED FLAKES OR POWDER; NO ODOR

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY:

INHALATION, EYES, SKIN, INGESTION.

TARGET ORGANS:

KIDNEYS, LIVER, NASAL SEPTUM, EYES, SKIN, RESPIRATORY TRACT,
 GASTROINTESTINAL TRACT.

IRRITANCY:

ALL ROUTES OF EXPOSURE, SEVERE.

SENSITIZING CAPABILITY:

MAY CAUSE SKIN SENSITIZATION.

REPRODUCTIVE EFFECTS:

NONE KNOWN.

CANCER INFORMATION:

CONTAINS A LISTED CARCINOGEN. SEE SECTIONS 2 & 11.

SHORT-TERM EXPOSURE (ACUTE)

INHALATION:

INHALATION OF VAPOR, MIST OR LIQUID MAY CAUSE SEVERE BURNS OF THE
 NASAL SEPTUM AND RESPIRATORY TRACT.

MAY CAUSE KIDNEY AND LIVER DAMAGE.

EYES:

CONTACT CAN CAUSE SEVERE DAMAGE INCLUDING BURNS AND BLINDNESS.

SKIN:

CONTACT CAN CAUSE SEVERE BURNS. CONTACT WITH BROKEN SKIN MAY LEAD TO
 FORMATION OF FIRMLY MARGINATED "CHROME SORES". MAY CAUSE ALLERGIC
 CONTACT DERMATITIS. DERMAL ABSORPTION OF LARGE AMOUNTS MAY RESULT IN
 KIDNEY FAILURE AND DEATH.

INGESTION:

CAN CAUSE SEVERE TISSUE DESTRUCTION. KIDNEY FAILURE MAY FOLLOW AND
 RESULT IN DEATH. MAY CAUSE LIVER DAMAGE.

REPEATED EXPOSURE (CHRONIC)

PROLONGED OR REPEATED CONTACT MAY CAUSE CONJUNCTIVITIS, "CHROME SORES"
 ON SKIN (ESPECIALLY BROKEN SKIN), OR ULCERATION AND PERFORATION OF THE
 NASAL SEPTUM. EPIDEMIOLOGICAL STUDIES INDICATE LONG TERM EXPOSURE TO
 DUSTS AND MISTS IN CHROME PROCESSING INDUSTRY IS ASSOCIATED WITH
 INCREASES IN RESPIRATORY TRACT CANCER IN MAN; THE CAUSATIVE AGENT IS
 NOT KNOWN. EPIDEMIOLOGICAL STUDIES HAVE NOT DEMONSTRATED ANY
 INCREASED RISK OF CANCER AT EXPOSURE LEVELS BELOW THE CURRENT PEL.

SYNERGISTIC MATERIALS:

NONE KNOWN.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

PRE-EXISTING DISORDERS AFFECTING TARGET ORGANS.

4. FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER FOR AT LEAST 15
 MINUTES, FORCIBLY HOLDING EYELIDS APART TO ENSURE COMPLETE IRRIGATION
 OF ALL EYE AND LID TISSUE. WASHING EYES WITHIN SEVERAL SECONDS IS
 ESSENTIAL TO ACHIEVE MAXIMUM EFFECTIVENESS. GET MEDICAL ATTENTION
 IMMEDIATELY.

SKIN:

IMMEDIATELY FLUSH CONTAMINATED AREAS WITH WATER. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. WASH CONTAMINATED AREAS WITH PLENTY OF SOAP AND WATER. WASH CLOTHING BEFORE REUSE. DISCARD FOOTWEAR WHICH CANNOT BE DECONTAMINATED. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, HAVE A TRAINED PERSON ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, HAVE A TRAINED PERSON ADMINISTER ARTIFICIAL RESPIRATION. IF CONSCIOUS, IRRIGATE NASAL PASSAGES AND MOUTH WITH WATER. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. (IF AVAILABLE, GIVE SEVERAL GLASSES OF MILK.) IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR AND GIVE MORE WATER. GET MEDICAL ATTENTION IMMEDIATELY. ACCIDENT VICTIMS SHOULD BE GIVEN 5-10 GM ASCORBIC ACID (NOT EFFERVESCENT TABLETS) DISSOLVED IN WATER. THIS DOSE CAN BE REPEATED SEVERAL TIMES.

NOTES TO PHYSICIAN:

MASSIVE OVEREXPOSURE TO SOLUTIONS OF THIS PRODUCT COULD LEAD TO KIDNEY FAILURE AND DEATH. IT HAS BEEN REPORTED THAT THERE IS LITTLE VALUE FROM CHELATING AGENTS, HOWEVER, ASCORBIC ACID ADMINISTERED INTRAVENOUSLY AND LOCALLY IS AN EFFECTIVE ANTIDOTE (CONVERTING CR6 TO CR3) IN PREVENTING RENAL TUBULAR FAILURE. SKIN ULCERS MAY BE TREATED BY REMOVAL FROM EXPOSURE, DAILY CLEANSING, DEBRIDEMENT, AND APPLICATION OF ANTIBIOTIC CREAM AND DRESSING. DIALYSIS MAY BE NECESSARY AS INDICATED. UP TO 10 GRAMS ASCORBIC ACID IN STOMACH. PLUS I.V. ASCORBIC ACID 1 GRAM IN DIVIDED DOSES. MONITOR BLOOD CHEMISTRIES, FORCE FLUIDS FOR DIURESIS (OF CHROME). DO NOT ATTEMPT CHELATION! PROTECT RENAL TUBULES.

5. FIRE FIGHTING MEASURES

FLASH POINT: NON-FLAMMABLE

METHOD: NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT COMBUSTIBLE

FLAMMABLE LIMITS IN AIR, BY % VOLUME

UPPER: NOT APPLICABLE

LOWER: NOT APPLICABLE

EXTINGUISHING MEDIA:

NON-FLAMMABLE / NON-COMBUSTIBLE.

USE AGENTS APPROPRIATE FOR SURROUNDING FIRE.

FIRE FIGHTING PROCEDURES:

WEAR NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

UNDER FIRE CONDITIONS, DECOMPOSING MATERIAL MAY FORM A HOT, VISCOUS FOAM.

FIRE AND EXPLOSION HAZARD:

OXIDIZER. AVOID CONTACT WITH ORGANIC MATERIALS (SEE SECTION 10).

SENSITIVITY TO MECHANICAL IMPACT:

NOT SENSITIVE.

SENSITIVITY TO STATIC DISCHARGE:

NOT SENSITIVE.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

EVACUATE UNNECESSARY PERSONNEL.

FOLLOW PROTECTIVE MEASURES PROVIDED UNDER PERSONAL PROTECTION IN SECTION 8.

PEOPLE PERFORMING THE CLEANUP SHOULD HAVE FULL PROTECTIVE EQUIPMENT INCLUDING A NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

ENVIRONMENTAL PRECAUTIONS:

DO NOT ALLOW ENTRY INTO SEWERS AND WATERWAYS.

SPILLS OR RELEASES SHOULD BE REPORTED, IF REQUIRED, TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCIES.

METHODS FOR CLEANING UP:

STOP LEAKS. REMOVE AS MUCH AS POSSIBLE (E.G. VACUUM TRUCK OR SHOVEL INTO STEEL CONTAINER). THEN TREAT THE SPILL AREA WITH A REDUCING AGENT TO CONVERT THE HEXAVALENT CHROMIUM TO THE TRIVALENT FORM (SODIUM BISULFITE, SODIUM SULFITE, FERROUS SULFATE OR FERROUS CHLORIDE). NEUTRALIZE WITH A WEAK BASE (SODIUM BICARBONATE, SODA ASH OR LIME). FOLLOWING NEUTRALIZATION, SOAK UP WITH INERT ABSORBENT MATERIAL (E.G. SAND) AND PLACE IN A CLOSED, LABELLED CONTAINER AND STORE IN A SAFE PLACE TO AWAIT DISPOSAL.

7. HANDLING AND STORAGE

HANDLING:

WEAR PERSONAL PROTECTIVE EQUIPMENT AS DESCRIBED IN EXPOSURE CONTROLS/PERSONAL PROTECTION (SECTION 8) OF THE MSDS.

DO NOT GET IN EYES, ON SKIN OR CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

AVOID BREATHING AIRBORNE PARTICULATES; WEAR RESPIRATORY PROTECTION WHEN EXPOSURE IS POSSIBLE.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

SPECIAL MIXING AND HANDLING INSTRUCTIONS:

DO NOT ALLOW CONTACT WITH MATERIALS AS NOTED IN SECTION 10.

STORAGE:

STORE IN TIGHTLY CLOSED, LABELLED CONTAINERS AWAY FROM COMBUSTIBLE MATERIALS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

THE WORK AREA SHOULD BE ISOLATED AND CONTAINED AND PROVIDED WITH ADEQUATE LOCAL EXHAUST VENTILATION OR OTHER CONTROLS WHERE DUST OR FUMES MAY BE GENERATED. THE NUMBER OF PERSONS EXPOSED SHOULD BE MINIMIZED.

CERTAIN PROCESSES LIKE CHROME PIGMENT PRODUCTION, HIGH TEMPERATURE WELDING OR CUTTING, ETC., MAY FORM MATERIALS MORE HAZARDOUS TO HUMANS THAN THIS PRODUCT. THE MATERIALS MAY BE THE FORMATION OF SLIGHTLY SOLUBLE SALTS (BARIUM, ZINC, CALCIUM OR OTHER CHROMATES) OR FUMES OF CHROMIUM/CHROMIC ACID, RESPECTIVELY WHICH ARE KNOWN TO BE HUMAN CARCINOGENS. ENGINEERING CONTROLS AND LOCAL EXHAUST VENTILATION IS REQUIRED TO ENSURE THAT WORKER EXPOSURE IS BELOW CURRENT PEL.

PERSONAL PROTECTION

RESPIRATORY:

WEAR A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, WHERE DUSTS, MISTS, FUMES OR VAPORS MAY OCCUR.

EYE/FACE:

WEAR CHEMICAL SAFETY GOGGLES PLUS FULL FACE SHIELD TO PROTECT AGAINST SPLASHING WHEN APPROPRIATE (ANSI Z87.1).

SKIN:

PROTECTIVE CLOTHING SHOULD BE WORN AND CHANGED AT LEAST DAILY. WASH CONTAMINATED CLOTHING WITH SOAP AND WATER AND DRY BEFORE REUSE. ADVISE THE LAUNDRY OF THE MATERIAL CONTAMINATING THE CLOTHING.

WEAR CHEMICAL RESISTANT GLOVES SUCH AS PVC OR NITRILE.

OTHER:

EMERGENCY SHOWER AND EYEWASH FACILITY SHOULD BE IN CLOSE PROXIMITY (ANSI Z358.1).

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: SOLID DARK RED FLAKES OR POWDER; NO ODOR

ODOR THRESHOLD: NOT APPLICABLE

SPECIFIC GRAVITY (WATER=1): 2.70 @ 25 C

VAPOR PRESSURE: NOT APPLICABLE

VAPOR DENSITY (AIR=1): NOT APPLICABLE

DENSITY: 85-90 LBS/CU.FT.. (TAPPED)

EVAPORATION RATE: NOT APPLICABLE

% VOLATILES BY WT: NOT APPLICABLE

BOILING POINT: NOT APPLICABLE

FREEZING POINT: NOT APPLICABLE

MELTING POINT: 197 C (387 F)

SOLUBILITY IN WATER (% BY WT.): 63% @ 25 C, HIGHLY SOLUBLE

PH: 1.1 FOR A 1% SOLUTION @ 25 C

OCTANOL/WATER PARTITION COEFFICIENT: NOT APPLICABLE

THERMAL DECOMPOSITION TEMPERATURE: NOT AVAILABLE

OTHER: NOT AVAILABLE

VOC (G/L. BY WT.): NOT APPLICABLE

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

☒ STABLE ☐ UNSTABLE

REACTS WITH:

<input type="checkbox"/> AIR	<input type="checkbox"/> OXIDIZERS	<input checked="" type="checkbox"/> METALS
<input type="checkbox"/> WATER	<input checked="" type="checkbox"/> ACIDS	<input checked="" type="checkbox"/> OTHER
<input checked="" type="checkbox"/> HEAT	<input checked="" type="checkbox"/> ALKALIS	<input type="checkbox"/> NONE

HAZARDOUS POLYMERIZATION:

☐ OCCURS ☒ WILL NOT OCCUR

COMMENTS:

THIS PRODUCT IS A STRONG OXIDIZING AGENT, EVEN IN SOLUTION. AVOID CONTACT WITH STRONG ACIDS, ALKALIS, ORGANIC MATERIALS, OILS, GREASES, OR ANY EASILY OXIDIZABLE MATERIAL. CORROSIVE TO SOME METALS. THIS PRODUCT IS HYGROSCOPIC. DO NOT STORE IN HUMID PLACES.

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE.

11. TOXICOLOGICAL INFORMATION

1333-82-0 CHROMIUM OXIDE (CRO3)

ACUTE ORAL LD50:	(RAT)	52 MG/KG (BOTH SEXES)
ACUTE DERMAL LD50:	(RABBIT)	57 MG/KG (BOTH SEXES)
ACUTE INHALATION LC50:	(RAT, 4HR)	217 MG/M3 (BOTH SEXES)

PRIMARY SKIN IRRITATION:

	DRY SOLID 4 HRS	MOISTENED 4 HRS	DRY SOLID 24 HRS	MOISTENED 24 HRS
ERYTHEMA	2/6	6/6		
EDEMA	0/6	5/6		
NECROSIS	0/6	1/6		
CORROSION			1/1	1/1

NTP AND IARC HAVE DETERMINED THAT THERE IS SUFFICIENT EVIDENCE FOR THE CARCINOGENICITY OF HEXAVALENT CHROMIUM COMPOUNDS BOTH IN HUMANS AND EXPERIMENTAL ANIMALS. HOWEVER, THE HEXAVALENT CHROMIUM COMPOUNDS RESPONSIBLE (FOR HUMAN CARCINOGENICITY) CANNOT BE SPECIFIED.

CHROMIC ACID CONTAINS HEXAVALENT CHROMIUM AND IS CLASSIFIED AS AN IARC (GROUP 1) CARCINOGEN, AND A KNOWN CARCINOGEN BY NTP.

12. ECOLOGICAL INFORMATION

1333-82-0 CHROMIUM OXIDE (CR₃)

AQUATIC ECOTOX DATA

FISH:

LC50 (96 HR.)	(SHEEPSHEAD MINNOW)	39	MG/L
LC50 (96 HR.)	(BLUEGILL SUNFISH)	44	MG/L
LC50 (96 HR.)	(RAINBOW TROUT)	28	MG/L
MATC (35 DAY)	(FATHEAD MINNOW, GROWTH)	2	MG/L
BCF (22 DAY)	(RAINBOW TROUT)	< 1*	
* BASED ON CONCENTRATION IN MUSCLE AS CHROME (VI)			

INVERTEBRATES:

EC50 (48 HR.)	(WATER FLEA)	0.8	MG/L
EC50 (48 HR.)	(MYSID SHRIMP)	5.9	MG/L
EC50 (48 HR.)	(QUAHOG CLAM)	4.3	MG/L
MATC (21 DAY)	(WATER FLEA, REPRO.)	4.7	UG/L
BCF (84 DAY)	(OYSTER)	125	**
BCF (84 DAY)	(BLUE MUSSEL)	192	**
** AS CHROME (VI)			

PLANTS:

EC50 (96 HR.)	(GREEN ALGAE, GROWTH)	183	UG/L **
BCF	(BENTHIC ALGAE, PHYTOPLANKTON)	1600 & 2300	**
** AS CHROME (VI)			

TERRESTRIAL ECOTOX DATA

WILDLIFE:

LD50 (14 DAY)	(MOUSE, ORAL)	127	MG/KG
LD50 (14 DAY)	(QUAIL, ORAL)	93.5	MG/KG
LC50 (8 DAY)	(QUAIL, DIETARY)	> 3,203	PPM
LC50 (8 DAY)	(DUCK, DIETARY)	> 3,203	PPM

ENVIRONMENTAL FATE DATA

BIOTIC:

BIODEGRADATION INORGANIC, NOT SUBJECT TO BIODEGRADATION

ABIOTIC:

(1/2 LIFE) PERSISTS AS CR(VI) OR CR(III)

THERE IS A SIGNIFICANT AMOUNT OF INFORMATION CONCERNING THE ENVIRONMENTAL FATE AND EFFECTS OF CHROMIUM OXIDE (CHROMIC ACID OR ANHYDRIDE). CHROMIUM OXIDE AND CHROMIUM HAVE BEEN FOUND TO EXHIBIT MODERATE TO HIGH TOXICITY TO AQUATIC AND TERRESTRIAL ORGANISMS. CHROMIUM OXIDE WILL PERSIST PRIMARILY AS CHROME (III) AND CHROME (VI) IN WATER AND SOIL SYSTEMS. MATERIAL RELEASED TO THE ATMOSPHERE IS SUBJECT TO DEPOSITION WITH PARTICULATES OR RAINFALL. UNDER CERTAIN ENVIRONMENTAL CONDITIONS CHROMIUM MAY BE SUBJECT TO LOW LEVELS OF BIOACCUMULATION IN BOTH AQUATIC AND TERRESTRIAL PLANTS AND ANIMALS. THERE IS NO INDICATION OF BIOMAGNIFICATION IN THE FOOD CHAIN. PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE ACCIDENTAL RELEASE OF THIS MATERIAL TO THE ENVIRONMENT.

13. DISPOSAL CONSIDERATIONS

TREAT WITH A REDUCING AGENT TO CONVERT HEXAVALENT CHROMIUM TO TRIVALENT CHROMIUM, THEN NEUTRALIZE WITH A WEAK BASE. THE SOLID MATERIAL MEETING TREATMENT STANDARDS MAY BE DISPOSED OF VIA AN APPROVED CHEMICAL WASTE LANDFILL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS. (SEE SECTION 6 OF THE MSDS).

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: CHROMIUM TRIOXIDE, ANHYDROUS

DOT HAZARD CLASS: 5.1 (8)

DOT IDENTIFICATION NO: UN1463
DOT PACKING GROUP: II
DOT HAZARDOUS SUBSTANCE: RQ 10 LBS (CHROMIC ACID)
DOT MARINE POLLUTANT(S): NA
ADDITIONAL DESCRIPTION REQUIREMENT: TOXIC

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

THIS PRODUCT CONTAINS A TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR 372. SEE SECTION 2, LIST LEGEND 02.

OSHA STANDARD 29 CFR 1910.1200 REQUIRES THAT INFORMATION BE PROVIDED TO EMPLOYEES REGARDING THE HAZARDS OF CHEMICALS BY MEANS OF A HAZARD COMMUNICATION PROGRAM INCLUDING LABELING, MATERIAL SAFETY DATA SHEETS, TRAINING AND ACCESS TO WRITTEN RECORDS. WE REQUEST THAT YOU, AND IT IS YOUR LEGAL DUTY TO, MAKE ALL INFORMATION IN THIS MATERIAL SAFETY DATA SHEET AVAILABLE TO YOUR EMPLOYEES.

TO AID OUR CUSTOMERS IN COMPLYING WITH REGULATORY REQUIREMENTS, SARA TITLE III HAZARD CATEGORIES FOR THIS PRODUCT ARE INDICATED BELOW. IF THE WORD "YES" APPEARS NEXT TO ANY CATEGORY, THIS PRODUCT MAY BE REPORTABLE BY YOU UNDER THE REQUIREMENTS OF 40.CFR.370. PLEASE CONSULT THOSE REGULATIONS FOR DETAILS.

TSCA:

ALL COMPONENTS OF THIS PRODUCT THAT ARE REQUIRED TO BE ON THE TSCA INVENTORY ARE LISTED ON THE INVENTORY.

SARA/TITLE III HAZARD CATEGORIES:

IMMEDIATE(ACUTE) HEALTH:	<u>YES</u>	REACTIVE HAZARD	<u>NO</u>
DELAYED(CHRONIC) HEALTH:	<u>YES</u>	SUDDEN RELEASE OF PRESSURE	<u>NO</u>
FIRE HAZARD:	<u>YES</u>		

HMIS HAZARD RATINGS:

HEALTH HAZARD: 3* FIRE HAZARD: 0 REACTIVITY: 1

STATE REGULATIONS:

SEE SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS LIST LEGEND FOR APPLICABLE STATE REGULATION.

CONSULT LOCAL LAWS FOR APPLICABILITY.

STATE OF CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65):
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

INTERNATIONAL REGULATIONS:

CONSULT THE REGULATIONS OF THE IMPORTING COUNTRY.

CANADA:

WHMIS HAZARD CLASS: C, D1A, D2A, E

16. OTHER INFORMATION

MSDS LEGEND:

ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

CAS = CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER

CEILING = CEILING LIMIT (15 MINUTES)

CEL = CORPORATE EXPOSURE LIMIT

OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL = PERMISSIBLE EXPOSURE LIMIT (OSHA)

STEL = SHORT TERM EXPOSURE LIMIT (15 MINUTES)

TDG = TRANSPORTATION OF DANGEROUS GOODS (CANADA)

TLV = THRESHOLD LIMIT VALUE (ACGIH)

TWA = TIME WEIGHTED AVERAGE (8 HOURS)

WHMIS = WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM (CANADA)

* = SEE SECTION 3 HAZARDS IDENTIFICATION - REPEATED EXPOSURE (CHRONIC) INFORMATION

17. WARNING LABEL INFORMATION

SIGNAL WORD:

 DANGER

HAZARD WARNINGS:

 STRONG OXIDIZER.

 CORROSIVE TO RESPIRATORY TRACT, EYES, SKIN AND DIGESTIVE TRACT.

 CONTACT WITH BROKEN SKIN MAY RESULT IN ULCERS.

 CONTACT CAN CAUSE SEVERE DAMAGE INCLUDING BURNS AND BLINDNESS.

 MAY CAUSE KIDNEY AND LIVER DAMAGE.

 PROLONGED OR REPEATED INHALATION MAY CAUSE ULCERATION OR PERFORATION OF NASAL SEPTUM.

 MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.

 POTENTIAL CANCER HAZARD. CONTAINS MATERIAL WHICH MAY CAUSE CANCER. RISK OF CANCER DEPENDS ON DURATION AND LEVEL OF EXPOSURE.

PRECAUTIONS:

 AVOID BREATHING DUST, VAPORS OR MIST.

 AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

 WEAR A NIOSH/MSHA APPROVED RESPIRATOR, CHEMICAL SPLASH GOGGLES, FULL FACE SHIELD, PROTECTIVE CLOTHING AND CHEMICAL RESISTANT GLOVES.

 USE WITH ADEQUATE VENTILATION TO MAINTAIN EXPOSURE LEVEL BELOW PEL.

 WASH THOROUGHLY AFTER HANDLING.

 AVOID CONTACT WITH STRONG ACIDS OR BASES.

 AVOID CONTACT WITH ORGANIC MATERIALS, OILS, GREASES OR ANY EASILY OXIDIZABLE MATERIAL.

 BEFORE USING, READ MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS MATERIAL.

FIRST AID

EYES:

 IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER FOR AT LEAST 15 MINUTES, FORCIBLY HOLDING EYELIDS APART TO ENSURE COMPLETE IRRIGATION OF ALL EYE AND LID TISSUE. WASHING EYES WITHIN SEVERAL SECONDS IS ESSENTIAL TO ACHIEVE MAXIMUM EFFECTIVENESS. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

 IMMEDIATELY FLUSH CONTAMINATED AREAS WITH WATER. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. WASH CONTAMINATED AREAS WITH PLENTY OF SOAP AND WATER. WASH CLOTHING BEFORE REUSE. DISCARD FOOTWEAR WHICH CANNOT BE DECONTAMINATED. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

 REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, HAVE A TRAINED PERSON ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, HAVE A TRAINED PERSON ADMINISTER ARTIFICIAL RESPIRATION. IF CONSCIOUS, IRRIGATE NASAL PASSAGES AND MOUTH WITH WATER. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

 NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. (IF AVAILABLE, GIVE SEVERAL GLASSES OF MILK.) IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR AND GIVE MORE WATER. GET MEDICAL ATTENTION IMMEDIATELY. ACCIDENT VICTIMS SHOULD BE GIVEN 5-10 GM ASCORBIC ACID (NOT

EFFERVESCENT TABLETS) DISSOLVED IN WATER. THIS DOSE CAN BE REPEATED SEVERAL TIMES.

IN CASE OF SPILL OR LEAK:

STOP LEAKS. REMOVE AS MUCH AS POSSIBLE (E.G. VACUUM TRUCK OR SHOVEL INTO STEEL CONTAINER). THEN TREAT THE SPILL AREA WITH A REDUCING AGENT TO CONVERT THE HEXAVALENT CHROMIUM TO THE TRIVALENT FORM (SODIUM BISULFITE, SODIUM SULFITE, FERROUS SULFATE OR FERROUS CHLORIDE). NEUTRALIZE WITH A WEAK BASE (SODIUM BICARBONATE, SODA ASH OR LIME). FOLLOWING NEUTRALIZATION, SOAK UP WITH INERT ABSORBENT MATERIAL (E.G. SAND) AND PLACE IN A CLOSED, LABELLED CONTAINER AND STORE IN A SAFE PLACE TO AWAIT DISPOSAL.

NEVER FLUSH TO SEWER.

SPILLS OR RELEASES SHOULD BE REPORTED, IF REQUIRED, TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCIES.

FIRE:

USE NIOSH/MSHA SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.

USE EXTINGUISHING MEDIUM AS APPROPRIATE FOR SURROUNDING FIRE.

HANDLING AND STORAGE:

STORE IN TIGHTLY CLOSED, LABELLED CONTAINERS AWAY FROM COMBUSTIBLE MATERIALS.

DISPOSAL:

DISPOSE OF SPILLED OR WASTE PRODUCT AFTER APPROPRIATE TREATMENT IN A LICENSED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

INFORMATION REQUIRED BY FEDERAL, STATE OR LOCAL REGULATIONS:

THIS PRODUCT CONTAINS:

CAS#	NAME
1333-82-0	CHROMIUM OXIDE (CR ₂ O ₃)
HMIS RATING:	HEALTH <u>3</u> * FLAMMABILITY <u>0</u> REACTIVITY <u>1</u>

FOR INDUSTRIAL USE ONLY

For Additional Information:

Contact: MSDS Coordinator – Univar USA

During business hours, Pacific Time – (425) 889-3400

NOTICE

Univar USA, expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Univar USA Sales Office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar USA makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar USA's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

END OF MSDS

[Home](#) [eBusiness](#) [Products](#) [What's New](#) [Environmental](#) [About Us](#) [Contact Us](#)

[e-mail webmaster](#) | By using this Web site, you agree to be bound by our usage policies.

To learn more see [Copyright© 1997 – 2003](#), Univar USA

```
for (i=0;i 0) { document.images[i].border = 0; document.images[i].width = 0; document.images[i].height = 0; break; } }
```


For your information, here is a current status summary:

1. City of Surrey staff will confirm discharge routes on the property, regarding contamination from the fire and from Oceanic Stones. Stacey, I thought I heard Harold say that you'll communicate with him for follow-up on that issue?
2. Under a City of Surrey bylaw, the strata has been asked to clean up all of the outside storage area (that is to occur within 7 days, right Lauralene)? As of this morning, I understand that strata property management is working with Hazco to secure the punctured, corrosives drum as well.
3. Since this is a fish-bearing creek, Environment Canada staff will follow-up to identify if any further action is needed. Pia, KJ, I'm sorry, but I can't recall what the outcome was here.
4. There was discharge of commercial effluent to the pond and the creek from Oceanic Stones. Further, there was effluent discharge to the storm sewer directly in front of the facility. The company was advised by the Ministry of Environment staff that the discharge to the creek needed to stop. Lauralene, Stacey, I'm not sure what the City of Surrey advised the company in regards to both the discharges to the creek and to the sewer.
5. Regarding the fire at Precision Plating, there was a stakeholders meeting today, involving the following parties: The fire department, Hazco, strata property management, Precision Plating insurance company, Ministry of Environment, City of Surrey, remediation contractor and industrial hygienist contractor. Outcomes of this meeting includes the following:
 - a. Property manager will retain a Qualified Professional to identify sections of the property, drainage works, and impacted receiving environment that were adversely impacted by the fire and subsequent chemical spill,
 - b. By Monday, April 18th, there will be a plan to shrink the evacuation zone,
 - c. The abandoned corrosives drum will be managed, under contract, by Hazco,
 - d. The strata management are pursuing litigation against Oceanic Stones to address a former clean-up of a blocked storm sewer.
6. City of Surrey by-law enforcement officers will visit unit 102 today, following a 24-hrs access notice, as the owners of this unit declined access to the site yesterday.

Thank you all for all of your time and effort. Please feel free to contact me if you need further details and/or pictures.

Best regards,

Oana Enick, P.Ag., M.E.T.
Environmental Protection Officer
Environmental Management
Ministry of Environment
Lower Mainland Region
ph: (604) 582-5270 fax: (604) 584-9751

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 7:18 PM
To: Knox, Graham ENV:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 4:50 PM

Graham, I held off in providing the following to PAB and the usual executive chain to allow consultation with you first. I may have to rethink my response approach and means of messaging after I talk to you. Please give me a call on my cell: **s.17** when you have an opportunity to read this. Thank you.

The following provides a further update in regard to remedial response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134). The following information was obtained during a stakeholder meeting conducted @ 9:00 AM and a subsequent update from Hazco Environmental (the hazardous waste clean-up company) on April 15, 2011. **Note that there has been an adverse turn in planned events that will in no doubt further heighten the anxiety and frustration of effected business owners.**

- Hazco Environmental has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- A 9:00 AM April 15, 2011 meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit reoccupation. The meeting was represented by the following: Hazco Environmental, Surrey Fire Department, City of Surrey Engineering Department, Paragon Realty – Commercial Real Estate & Property Management (the strata property management company), Claimspro (Precision Plating Ltd. insurance representative), Pacific Environmental Consulting and Occupational Hygiene Services, Canstar Restoration and Ministry of Environment Environmental Emergency Response Program.
- The meeting attendees agreed that the impacted units would be assessed and cleared by the Certified Industrial Hygienist and power and fire sprinkling water would be restored for those units found to be safe for reoccupation. This would be done in a staged approach, beginning with the least and moving towards the most impacted strata units to achieve a more timely return of business.
- It was also agreed at the meeting that Hazco Environmental would work with the restoration company to develop a “Reoccupation Plan” that will be available in draft for review by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company that will provide a schedule of activities that will be disclosed to the impacted business operators to assist the operators in planning and facilitating interim operating measures.
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact with their strata clients to answer inquiries or complaints.
- The property management company retained Keystone Environmental Consultants to proceed with a receiving environment impact assessment. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to clear the units to allow business to return as soon as possible. The business group were advised that updates on achieved remedial measures with timelines would be

presented through their property management company representative on a regular basis and conveyed to the individual strata holders and occupants in a timely fashion. The hazards currently existing in the evacuated building were explained but were met with unreceptive and highly emotional response. The group emphasized their frustration as to how long they have been kept outside their place of business and that this was jeopardizing their livelihood. One of the business occupants made it clear that returning to work out-weighed the explained risk to their personal safety. Others refused to be influenced by information presented to them and downplayed the risks associated with the hazardous materials. One individual advised that he would contest security to return to his unit.

- The meeting with the business representatives concluded with the understanding that work would proceed through-out the weekend in effort to clear units for reoccupation as soon as possible. A meeting was scheduled for 10:00 AM Monday morning with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results. A draft "Reoccupancy Plan" was going to be made available for discussion with the response stakeholders and for general discussion with the concerned business group.
- The turn of events came in a declaration to the MOE Senior Emergency Response Officer from Hazco Environmental at 1650 hours, April 15th when Hazco concluded discussion with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure coverage of payment to Hazco to cover costly work scheduled for this weekend. Hazco required assurance in the amount of **s.21** to proceed with this work. The property management representative advised that he had no time to secure the funds to allow timely payment. Hazco advised that they could not proceed any further with remediation.

S21

S21

- Hazco has their response team and resources ready to continue work, should the property management company reconsider paying in a timely manner to allow weekend work.
- Hazco has communicated to the property management company that remediation work will stand down until payment is made. The property management company is responsible for addressing any complaints and concerns expressed by their clients for any delay in remedial work and strata unit occupancy. The response contractors and agency stakeholders are not responsible for this delay.
- Hazco has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives potentially encroaching or breaching security.
- Security presence will be doubled for the weekend with emphasis that a security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazco, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised. Canstar Restorations was retained by the property management company to provide and maintain site security and committed to developing a plan to address response to challenged security.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.
- An additional update on progress will be provided on April 16th unless events require more timely notification.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 9:50 PM
To: ENV !Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the

evacuation zone: A security representative with people skills will address any challenge from agitated business owners.

- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Fuller, Ryan ENV:EX

From: Enick, Oana V ENV:EX
Sent: Friday, April 15, 2011 3:19 PM
To: 'SThompson@surrey.ca'; 'lsaxton@surrey.ca'; 'KJ.Sadler@ec.gc.ca'; 'pia.rasmussen@ec.gc.ca'; Fuller, Ryan ENV:EX; Riedler, Harold ENV:EX; Kervel, John ENV:EX
Subject: April 13 site inspection at 13045 84th Avenue, Surrey, BC

Hello all:

Thank you all for joining us yesterday at the Surrey site. Pia, it was nice to see you again, KJ, Stacey and Lauralene it was very nice to meet you, Harold, Ryan and John, always nice to see you.

For your information, here is a current status summary:

1. City of Surrey staff will confirm discharge routes on the property, regarding contamination from the fire and from Oceanic Stones. Stacey, I thought I heard Harold say that you'll communicate with him for follow-up on that issue?
2. Under a City of Surrey bylaw, the strata has been asked to clean up all of the outside storage area (that is to occur within 7 days, right Lauralene)? As of this morning, I understand that strata property management is working with Hazco to secure the punctured, corrosives drum as well.
3. Since this is a fish-bearing creek, Environment Canada staff will follow-up to identify if any further action is needed. Pia, KJ, I'm sorry, but I can't recall what the outcome was here.
4. There was discharge of commercial effluent to the pond and the creek from Oceanic Stones. Further, there was effluent discharge to the storm sewer directly in front of the facility. The company was advised by the Ministry of Environment staff that the discharge to the creek needed to stop. Lauralene, Stacey, I'm not sure what the City of Surrey advised the company in regards to both the discharges to the creek and to the sewer.
5. Regarding the fire at Precision Plating, there was a stakeholders meeting today, involving the following parties: The fire department, Hazco, strata property management, Precision Plating insurance company, Ministry of Environment, City of Surrey, remediation contractor and industrial hygienist contractor. Outcomes of this meeting includes the following:
 - a. Property manager will retain a Qualified Professional to identify sections of the property, drainage works, and impacted receiving environment that were adversely impacted by the fire and subsequent chemical spill,
 - b. By Monday, April 18th, there will be a plan to shrink the evacuation zone,
 - c. The abandoned corrosives drum will be managed, under contract, by Hazco,
 - d. The strata management are pursuing litigation against Oceanic Stones to address a former clean-up of a blocked storm sewer.
6. City of Surrey by-law enforcement officers will visit unit 102 today, following a 24-hrs access notice, as the owners of this unit declined access to the site yesterday.

Thank you all for all of your time and effort. Please feel free to contact me if you need further details and/or pictures.

Best regards,

Oana Enick, P.Ag., M.E.T.
Environmental Protection Officer
Environmental Management
Ministry of Environment

Lower Mainland Region
ph: (604) 582-5270 fax: (604) 584-9751

Fuller, Ryan ENV:EX

From: Saxton, Lauralene [LSaxton@surrey.ca]
Sent: Friday, April 15, 2011 5:48 PM
To: Enick, Oana V ENV:EX; Thompson, Sarah; KJ.Sadler@ec.gc.ca; pia.rasmussen@ec.gc.ca; Fuller, Ryan ENV:EX; Riedler, Harold ENV:EX; Kervel, John ENV:EX
Subject: RE: April 13 site inspection at 13045 84th Avenue, Surrey, BC
Attachments: image001.jpg

Oana

For your information the owner of the property and the property manager have been served a letter this date for Unsightly Premise. They have been given 7 days to comply.

Myself and Stacey attended Unit 102, re demand inspection. At first s.22 refused us entry and was trying to do everything he can to prevent us from entry. The only way he allowed us in, was that if he refused he would be faced with obstruction charges. We were not able to detect any environmental issues from this unit at this time. But the s.22 does have 3 very suspicious containers inside the unit. The containers are very large, grey in colour and were securely locked. s.22

s.22 I will be discussing this with my supervisor, of my concerns. s.22 has also been given a application for business license (warehouse), which means he will be subject for further inspection by the building, electrical and plumbing Departments.

File number: BI2011 – 002996 refers

Lauralene Saxton

Bylaw/Conservation Enforcement Officer



Legal Services Division
By-law & Licensing Section
14245 - 56 Ave, Surrey, BC, Canada V3X 3A2
T 604.591.4636 | F 604.591.4465 | C 604.968.8704 www.surrey.ca

Please consider the environment before printing this email

From: Enick, Oana V ENV:EX [<mailto:Oana.Enick@gov.bc.ca>]
Sent: April-15-11 3:19 PM
To: Thompson, Sarah; Saxton, Lauralene; 'KJ.Sadler@ec.gc.ca'; 'pia.rasmussen@ec.gc.ca'; Fuller, Ryan ENV:EX; Riedler, Harold ENV:EX; Kervel, John ENV:EX
Subject: April 13 site inspection at 13045 84th Avenue, Surrey, BC

Hello all:

Thank you all for joining us yesterday at the Surrey site. Pia, it was nice to see you again, KJ, Stacey and Lauralene it was very nice to meet you, Harold, Ryan and John, always nice to see you.

For your information, here is a current status summary:

1. City of Surrey staff will confirm discharge routes on the property, regarding contamination from the fire and from Oceanic Stones. Stacey, I thought I heard Harold say that you'll communicate with him for follow-up on that issue?
2. Under a City of Surrey bylaw, the strata has been asked to clean up all of the outside storage area (that is to occur within 7 days, right Lauralene)? As of this morning, I understand that strata property management is working with Hazco to secure the punctured, corrosives drum as well.
3. Since this is a fish-bearing creek, Environment Canada staff will follow-up to identify if any further action is needed. Pia, KJ, I'm sorry, but I can't recall what the outcome was here.
4. There was discharge of commercial effluent to the pond and the creek from Oceanic Stones. Further, there was effluent discharge to the storm sewer directly in front of the facility. The company was advised by the Ministry of Environment staff that the discharge to the creek needed to stop. Lauralene, Stacey, I'm not sure what the City of Surrey advised the company in regards to both the discharges to the creek and to the sewer.
5. Regarding the fire at Precision Plating, there was a stakeholders meeting today, involving the following parties: The fire department, Hazco, strata property management, Precision Plating insurance company, Ministry of Environment, City of Surrey, remediation contractor and industrial hygienist contractor. Outcomes of this meeting includes the following:
 - a. Property manager will retain a Qualified Professional to identify sections of the property, drainage works, and impacted receiving environment that were adversely impacted by the fire and subsequent chemical spill,
 - b. By Monday, April 18th, there will be a plan to shrink the evacuation zone,
 - c. The abandoned corrosives drum will be managed, under contract, by Hazco,
 - d. The strata management are pursuing litigation against Oceanic Stones to address a former clean-up of a blocked storm sewer.
6. City of Surrey by-law enforcement officers will visit unit 102 today, following a 24-hrs access notice, as the owners of this unit declined access to the site yesterday.

Thank you all for all of your time and effort. Please feel free to contact me if you need further details and/or pictures.

Best regards,

Oana Enick, P.Ag., M.E.T.
Environmental Protection Officer
Environmental Management
Ministry of Environment
Lower Mainland Region
ph: (604) 582-5270 fax: (604) 584-9751

Fuller, Ryan ENV:EX

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 9:50 PM
To: ENV !Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the

evacuation zone. A security representative with people skills will address any challenge from agitated business owners.

- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler

Senior Emergency Response Officer

Coastal Region - Surrey Office

Environmental Emergencies Program

Ministry of Environment

Phone: 604-582-5278

harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Knox, Graham ENV:EX
Sent: Friday, April 15, 2011 9:59 PM
To: Riedler, Harold ENV:EX
Cc: Hofweber, Jim E ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Thank you very much Harold for this and the many sacrifices you make for the ministry

s.22

s.22

I am very committed to getting you the extra support you need in Surrey to reduce the load you continue to carry. I will continue to work with Jim and the executive to make this a reality.

I will call you tomorrow to discuss the current situation further as we discussed this evening. Let me know what a good time is to call? (I don't want to wake you up!).

Thanks,

Graham

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 09:49 PM
To: ENV !Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..

information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.

- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 10:06 PM
To: Knox, Graham ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Please call me on my home phone @ 9:00 AM s.17 Thank you, Harold.

From: Knox, Graham ENV:EX
Sent: Friday, April 15, 2011 09:59 PM
To: Riedler, Harold ENV:EX
Cc: Hofweber, Jim E ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Thank you very much Harold for this and the many sacrifices you make for the ministry.

s.22

s.22

I am very committed to getting you the extra support you need in Surrey to reduce the load you continue to carry. I will continue to work with Jim and the executive to make this a reality.

I will call you tomorrow to discuss the current situation further as we discussed this evening. Let me know what a good time is to call? (I don't want to wake you up!).

Thanks,

Graham

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 09:49 PM
To: ENV /Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.

- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.

- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Sharma, Rishi ENV:EX
Sent: Friday, April 15, 2011 10:06 PM
To: Riedler, Harold ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Thx

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 09:49 PM
To: ENV !Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured

work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.

- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
[*harold.riedler@gov.bc.ca*](mailto:harold.riedler@gov.bc.ca)

Riedler, Harold ENV:EX

From: Environmental Emergencies Spill Reports ENV:EX [EESR@gov.bc.ca]
Sent: Friday, April 15, 2011 10:25 PM
To: Riedler, Harold ENV:EX
Subject: FW: DGIR 110134 UPDATE 6 - SWE

From: SGPEP.ECC1@gov.bc.ca[SMTP:SGPEP.ECC1@GOV.BC.CA]
Sent: Friday, April 15, 2011 10:24:32 PM
To: Environmental Emergencies Spill Reports ENV:EX
Subject: DGIR 110134 UPDATE 6 - SWE
Auto forwarded by a Rule

Incident Date/Time: 2011-04-12 5:56

Location: 13045 84TH AVE
Area: SURREY
PEP Region: SWE
MOE Region: Lower Mainland Region

Caller / Agency: HAROLD RIEDLER (BY EMAIL) MOE RO

Details: The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 - 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 - 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance time lines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the

units and or hygiene monitoring results.

- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Report Compiled By: ERIN Operations 1 ECC - 2011-04-15 21:52 DGIR 110134 UPDATE 6 Subject: INLAND UPDATE

Environmental Emergency Response Officer:

Date:

Notification Coding: Code 1 / Code 2

MOE Response: Exercise / Potential / No Field Response / Field Response / IMT Activation

Notes:

Riedler, Harold ENV:EX

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:23 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,
Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 9:50 PM
To: ENV !Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.

environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.

- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Fuller, Ryan ENV:EX

From: Thomson, Stacey [SThompson@surrey.ca]
Sent: Monday, April 18, 2011 11:31 AM
To: Isaxton@surrey.ca; KJ.Sadler@ec.gc.ca; pia.rasmussen@ec.gc.ca; Fuller, Ryan ENV:EX; Riedler, Harold ENV:EX; Enick, Oana V ENV:EX
Subject: RE: April 14 site inspection at 13045 84th Avenue, Surrey, BC
Attachments: image001.jpg

Hi all

Just an update. I will be looking at the building plans of the property to try and figure out where everything leads. We do have those 2 discharge points into the creek which can be seen in cosmos. I am just not sure yet what leads into each of them. I will forward any findings to Harold. As mentioned below the hired professionals will be looking at the drainage works as well.

As for the commercial effluent to the onsite swale/pond and storm sewer directly in front of the facility the City of Surrey has no authority as it is on private property. We will only have authority if this contamination is getting into our system. I did take samples at the 2 discharge points into the creek and I will also be sampling on a rainy day as well to confirm if any contamination is getting into our system. I will forward these results to Harold. If there is contamination getting into our system the property will be advised to fix this problem or they can no longer discharge into our system.

Stacey Thomson | Environmental Technologist



Engineering Department
14245 56th Ave, Surrey, BC, Canada V3X 3A2
T 604 591-4321 | F 604 591 8693 | SThompson@surrey.ca

Please consider the environment before printing this email

From: Enick, Oana V ENV:EX [<mailto:Oana.Enick@gov.bc.ca>]
Sent: April-15-11 3:22 PM
To: Thomson, Stacey
Subject: FW: April 13 site inspection at 13045 84th Avenue, Surrey, BC

Hi Stacey:

I got the wrong e-mail address the first time around. Sorry about this, here is the message I meant to get to you. Have a good weekend, Oana.

Oana Enick, P.Ag., M.E.T.
Environmental Protection Officer
Environmental Management
Ministry of Environment
Lower Mainland Region
ph: (604) 582-5270 fax: (604) 584-9751

From: Enick, Oana V ENV:EX
Sent: Friday, April 15, 2011 3:19 PM
To: 'SThompson@surrey.ca'; 'Isaxton@surrey.ca'; 'KJ.Sadler@ec.gc.ca'; 'pia.rasmussen@ec.gc.ca'; Fuller, Ryan ENV:EX; Riedler, Harold ENV:EX; Kervel, John ENV:EX
Subject: April 13 site inspection at 13045 84th Avenue, Surrey, BC

Hello all:

Thank you all for joining us yesterday at the Surrey site. Pia, it was nice to see you again, KJ, Stacey and Lauralene it was very nice to meet you, Harold, Ryan and John, always nice to see you.

For your information, here is a current status summary:

1. City of Surrey staff will confirm discharge routes on the property, regarding contamination from the fire and from Oceanic Stones. Stacey, I thought I heard Harold say that you'll communicate with him for follow-up on that issue?
2. Under a City of Surrey bylaw, the strata has been asked to clean up all of the outside storage area (that is to occur within 7 days, right Lauralene)? As of this morning, I understand that strata property management is working with Hazco to secure the punctured, corrosives drum as well.
3. Since this is a fish-bearing creek, Environment Canada staff will follow-up to identify if any further action is needed. Pia, KJ, I'm sorry, but I can't recall what the outcome was here.
4. There was discharge of commercial effluent to the pond and the creek from Oceanic Stones. Further, there was effluent discharge to the storm sewer directly in front of the facility. The company was advised by the Ministry of Environment staff that the discharge to the creek needed to stop. Lauralene, Stacey, I'm not sure what the City of Surrey advised the company in regards to both the discharges to the creek and to the sewer.
5. Regarding the fire at Precision Plating, there was a stakeholders meeting today, involving the following parties: The fire department, Hazco, strata property management, Precision Plating insurance company, Ministry of Environment, City of Surrey, remediation contractor and industrial hygienist contractor. Outcomes of this meeting includes the following:
 - a. Property manager will retain a Qualified Professional to identify sections of the property, drainage works, and impacted receiving environment that were adversely impacted by the fire and subsequent chemical spill,
 - b. By Monday, April 18th, there will be a plan to shrink the evacuation zone,
 - c. The abandoned corrosives drum will be managed, under contract, by Hazco,
 - d. The strata management are pursuing litigation against Oceanic Stones to address a former clean-up of a blocked storm sewer.
6. City of Surrey by-law enforcement officers will visit unit 102 today, following a 24-hrs access notice, as the owners of this unit declined access to the site yesterday.

Thank you all for all of your time and effort. Please feel free to contact me if you need further details and/or pictures.

Best regards,

Oana Enick, P.Ag., M.E.T.
Environmental Protection Officer
Environmental Management
Ministry of Environment
Lower Mainland Region
ph: (604) 582-5270 fax: (604) 584-9751

Riedler, Harold ENV:EX

From: Thomson, Stacey [SThompson@surrey.ca]
Sent: Monday, April 18, 2011 11:55 AM
To: Riedler, Harold ENV:EX
Subject: sampling for discharge into the creek

Harold,

Below is the sample locations and notes. I submitted the samples to the lab for total metals, oil and grease and TSS on Friday and I should have the results in 5 business days which I will forward to you.

Stacey

Sample name/location	Sampling Time	pH	Temperature (°C)	Conductivity	Notes
#1 W of 13055 84 Ave	9:56 am	7.47	7.4	30	Clear, little flow
#2 E of 13055 84 Ave	10:09 am	6.9	4.6	36	Little flow, slight green colour



Engineering Department
14245 56th Ave, Surrey, BC, Canada V3X 3A2
T 604 591-4321 | F 604 591 8693 | SThomson@surrey.ca

Please consider the environment before printing this email

Riedler, Harold ENV:EX

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 6:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...
Thanks,
Rish

From: Jackson, Vickie ENV:EX
Sent: Monday, April 18, 2011 02:32 PM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi – the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:23 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Hi all –

lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX

Sent: Friday, April 15, 2011 9:50 PM

To: ENV !Emergency Incident Contacts

Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX

Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..

- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
 Senior Emergency Response Officer
 Coastal Region - Surrey Office

Riedler, Harold ENV:EX

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 8:18 AM
To: Standen, Jim ENV:EX
Cc: Riedler, Harold ENV:EX; Jackson, Nicole ENV:EX
Subject: Urgent Request: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Importance: High

Jim-The Minister's Office needs an update on the contact made with, and commitment to provide information to, the non-strata business owners.

For this morning, please.

Thanks,

Vickie

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 6:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...

Thanks,

Rish

From: Jackson, Vickie ENV:EX
Sent: Monday, April 18, 2011 02:32 PM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi – the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX

Sent: Monday, April 18, 2011 9:23 AM

To: Jackson, Vickie ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX

Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX

Sent: Friday, April 15, 2011 9:50 PM

To: ENV !Emergency Incident Contacts

Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX

Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.

- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with

to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.

- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Hofweber, Jim E ENV:EX
Sent: Tuesday, April 19, 2011 9:30 AM
To: Poss, Angie PAB:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Riedler, Harold ENV:EX
Subject: RE: FOR REVIEW - Issues Note: Precision Plating

Looks ok Angie.

S13

S13

S13

From: Poss, Angie PAB:EX
Sent: Tuesday, April 19, 2011 8:47 AM
To: Hofweber, Jim E ENV:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX
Subject: FOR REVIEW - Issues Note: Precision Plating

Jim – For your review, an issues note on the recent spill and fire at Precision Plating in Surrey. Thanks to Graham and Harold for their review and input. MO is asking for this by the end of the day so would appreciate your review this morning.

Thanks

Angie

<< File: IN_Precision Plating Hazmat Fire_April 18 2011_D1.doc >>

s.13

KEY FACTS REGARDING THE ISSUE:

A number of businesses remain closed following an April 12, 2011 fire at Precision Plating Ltd. in Surrey. The fire caused a spill of a large amount of chromic acid, a toxic, carcinogenic and combustible chemical used in the plating process. Chromic acid can result in fire when comes into contact with organic materials creating an additional fire hazard.

Two strata business complexes were initially within the evacuation zone: the site of the fire and spill (13055 84 Ave.) and a second nearby complex at 13045 84th Ave. The Ministry of

MOE-2011-00159

Page 16

Businesses at the second evacuated complex have since been allowed back, but the primary fire and spill site remains evacuated because of an ongoing risk of another fire caused by the spilled chromic acid. Power to the entire building remains off because the transformers are resting in pooled waste chromic acid. Some of the businesses in the evacuation zone are heavily saturated with contamination and will need significant tear out and removal of the contaminated materials which is likely to take more than a week. The stormwater lines are also contaminated and need remediation.

The building owner has hired a hazardous materials response contractor who completed treating and stabilizing the spilled material, reducing the potential fire risk from high to moderate. A number of business owners who rent space from the building owner have expressed concerns about the impact the prolonged evacuation is having on their business. They fear the owner and/or environmental contractors are deliberately slowing the clean-up process.

Ministry of Environment environmental emergency response officers responded to the initial fire and have since made several visits to the site and had regular meetings with the property owner, the fire department, the environmental contractor, the business operators, and others. Meetings were most recently held on Friday, April 15 and again on Monday April 18.

The property management company has been reminded that they are responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies. All tenants and businesses have been provided with a contact number for Canstar (the Responsible Party's lead contractor for cleanup and site security) for on-going updates on re-occupation and changes to the security zone.

Next steps:

The hazardous materials response contractor will develop a reoccupation plan in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by a number of agencies including MoE, the Surrey Fire Department, Worksafe BC and the property management company. It will then be shared with impacted businesses.

The level of contamination in each unit varies. Each unit, as well as the overall site, will be assessed, cleaned of any remaining toxic spilled material by qualified professionals, then reviewed by the Surrey Fire Department, MoE and WorkSafe BC, before businesses will be allowed to return.

MoE will likely transfer site security and oversight to the Fire Department and Worksafe BC as soon as electroplating solutions are secured to prevent any further risk of spill to the environment.

Riedler, Harold ENV:EX

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 10:49 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: FYI: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-

The decision to close and reopen the site (and therefore the communication around this) rests with the Fire Commissioner i.e. local government. We were able to convince them to have this meeting yesterday and suggested ongoing communications with affected businesses. Jim has been in touch with MLA Bains. I don't see that there is anything else we can do except direct MLA Bains to the local officials who will decide when the site is safe to reopen.

Vickie

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 6:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...
Thanks,
Rish

From: Jackson, Vickie ENV:EX
Sent: Monday, April 18, 2011 02:32 PM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi – the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terrv Lake

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:23 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 9:50 PM
To: ENV !Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work

status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.

- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security

will address any challenge from agitated business owners.

- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Tuesday, April 19, 2011 10:56 AM
To: Fuller, Ryan ENV:EX
Subject: FW: REVIEW - Issues Note: Precision Plating

FYI.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Hofweber, Jim E ENV:EX
Sent: Tuesday, April 19, 2011 10:55 AM
To: Riedler, Harold ENV:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Poss, Angie PAB:EX
Subject: RE: REVIEW - Issues Note: Precision Plating

Thanks Harold. Excellent explanation.

From: Riedler, Harold ENV:EX
Sent: Tuesday, April 19, 2011 10:43 AM
To: Hofweber, Jim E ENV:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Poss, Angie PAB:EX
Subject: REVIEW - Issues Note: Precision Plating

Jim, the tactical evacuation is still under the control of Ministry of Environment. The reason why the other agencies did not take lead in declaring an evacuation is as follows:

- 1) Health Authority does not have any legislative control for the commercial site and surrounding commercial property. A risk to public health is a stretch.
- 2) Worksafe BC has no legislative controls in place to manage many units that are owner operated (no employees).
- 3) Provincial Emergency Program did not want to declare an evacuation because public safety was not at risk.
- 4) The Fire Department did not want to issue an evacuation as there was no fire or explosion that would enact their evacuation under the Fire Act. The fire department had difficulty defending a potential for fire considering the nature of the dilute spilled chromic acid as a potential fire restarter and felt that their interests would be better served under the evacuation application under the Environmental Management Act.

Our evacuation will remain in effect until the tanks that had been structurally compromised in the fire (approximately 6 toxic plating solution tanks) have their contents pumped to drums to reduce the possibility of an accidental bump and mass release to the environment and to neighbouring units during clean-up activities in the tight space between the tanks. Once these tank contents have been secured, site security can be transitioned under the control of the Fire Department for in-building remedial work as fire sprinkling systems and power to all units remain off and will only be turned on in a controlled, staged fashion to ensure safe reoccupation. Worksafe BC will monitor the reoccupancy to ensure that employers provide a safe work environment for the units that have employees.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Poss, Angie PAB:EX
Sent: Tuesday, April 19, 2011 9:48 AM
To: Hofweber, Jim E ENV:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Riedler, Harold ENV:EX
Subject: RE: FOR REVIEW - Issues Note: Precision Plating

Thanks Jim.

My understanding is it is technically our tactical evacuation, but that that was largely due to some confusion among the fire department on site during the original fire. We are maintaining the evacuation base on discussions with Worksafe BC and the fire department. Our evacuation will be lifted once the environmental risk is reduced, however the fire department may wish to extend their own order at that point if the fire risk remains.

Graham - can you confirm this is correct?

Angie

From: Hofweber, Jim E ENV:EX
Sent: Tuesday, April 19, 2011 9:30 AM
To: Poss, Angie PAB:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Riedler, Harold ENV:EX
Subject: RE: FOR REVIEW - Issues Note: Precision Plating

Looks ok Angie.

S13

S13

From: Poss, Angie PAB:EX
Sent: Tuesday, April 19, 2011 8:47 AM
To: Hofweber, Jim E ENV:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX
Subject: FOR REVIEW - Issues Note: Precision Plating

Jim – For your review, an issues note on the recent spill and fire at Precision Plating in Surrey. Thanks to Graham and Harold for their review and input. MO is asking for this by the end of the day so would appreciate your review this morning.

Thanks

Angie

<< File: IN_Precision Plating Hazmat Fire_April 18 2011_D1.doc >>

s.13

KEY FACTS REGARDING THE ISSUE:

A number of businesses remain closed following an April 12, 2011 fire at Precision Plating Ltd. in Surrey. The fire caused a spill of a large amount of chromic acid, a toxic, carcinogenic and combustible chemical used in the plating process. Chromic acid can result in fire when comes into contact with organic materials creating an additional fire hazard.

Two strata business complexes were initially within the evacuation zone: the site of the fire and spill (13055 84 Ave.) and a second nearby complex at 13045 84th Ave. The Ministry of Environment evacuated the area during the initial fire and spill. The evacuation is supported by the Surrey Fire Department and WorkSafe BC.

Businesses at the second evacuated complex have since been allowed back, but the primary fire and spill site remains evacuated because of an ongoing risk of another fire caused by the spilled chromic acid. Power to the entire building remains off because the transformers are resting in pooled waste chromic acid. Some of the businesses in the evacuation zone are heavily saturated with contamination and will need significant tear out and removal of the contaminated materials which is likely to take more than a week. The stormwater lines are also contaminated and need remediation.

The building owner has hired a hazardous materials response contractor who completed treating and stabilizing the spilled material, reducing the potential fire risk from high to moderate. A number of business owners who rent space from the building owner have expressed concerns about the impact the prolonged evacuation is having on their business. They fear the owner and/or environmental contractors are deliberately slowing the clean-up process.

Ministry of Environment environmental emergency response officers responded to the initial fire and have since made several visits to the site and had regular meetings with the property owner, the fire department, the environmental contractor, the business operators, and others. Meetings were most recently held on Friday, April 15 and again on Monday April 18.

The property management company has been reminded that they are responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies. All tenants and businesses have been provided with a contact number for Canstar (the Responsible Party's lead contractor for cleanup and site security) for on-going updates on re-occupation and changes to the security zone.

Next steps:

The hazardous materials response contractor will develop a reoccupation plan in consultation with the restoration company that will include a schedule of activities to return businesses to their units

Worksafe BC and the property management company. It will then be shared with impacted businesses.

The level of contamination in each unit varies. Each unit, as well as the overall site, will be assessed, cleaned of any remaining toxic spilled material by qualified professionals, then reviewed by the Surrey Fire Department, MoE and WorkSafe BC, before businesses will be allowed to return.

MoE will likely transfer site security and oversight to the Fire Department and Worksafe BC as soon as electroplating solutions are secured to prevent any further risk of spill to the environment.

Riedler, Harold ENV:EX

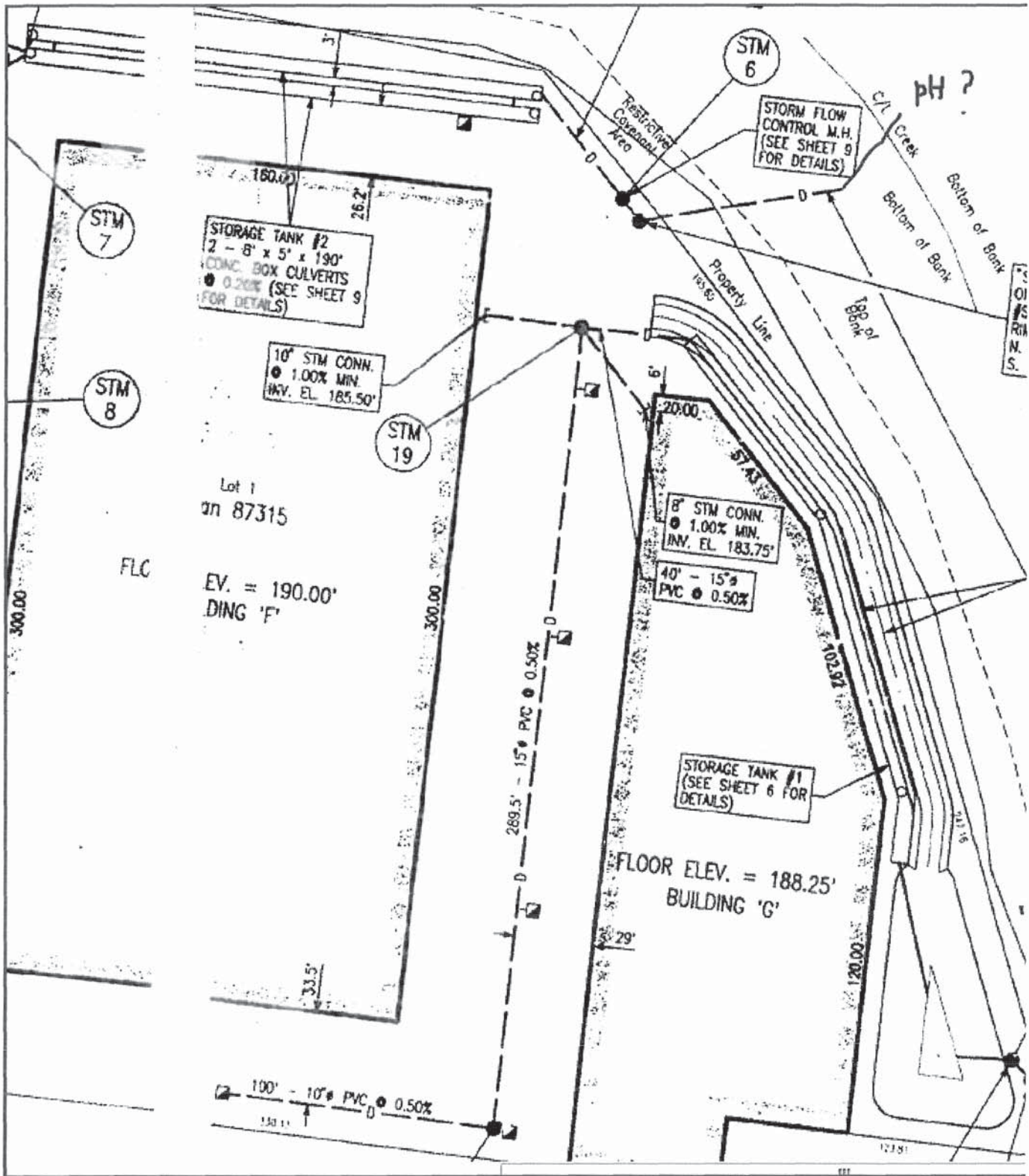
From: Thomson, Stacey [SThompson@surrey.ca]
Sent: Tuesday, April 19, 2011 11:11 AM
To: Riedler, Harold ENV:EX
Subject: Drainage plans
Attachments: Scan001.pdf; Scan002.pdf; Scan007.pdf; Scan003-006.pdf

Hi Harold

Attached is the drainage plans for the site.

In the picture below can you confirm what the pH was at the outlet to the creek when the fire happened. From the plans it appears all the parking lot area in front leads to the pond and then discharged and the highlighted discharge point services beside the property and behind it. Thanks

Stacey



Stacey Thomson | Environmental Technologist



Engineering Department
 14245 56th Ave, Surrey, BC, Canada V3X 3A2
 T 604 591-4321 | F 604 591 8693 | SThomson@surrey.ca

Please consider the environment before printing this email

Fuller, Ryan ENV:EX

From: Riedler, Harold ENV:EX
Sent: Tuesday, April 19, 2011 11:15 AM
To: Fuller, Ryan ENV:EX
Subject: FW: Drainage plans
Attachments: Scan001.pdf; Scan002.pdf; Scan007.pdf; Scan003-006.pdf

Ryan,

Can you please print in colour and in 11" X 17" format the plans within this email? Thank you.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Thomson, Stacey [<mailto:SThompson@surrey.ca>]
Sent: Tuesday, April 19, 2011 11:11 AM
To: Riedler, Harold ENV:EX
Subject: Drainage plans

Hi Harold

Attached is the drainage plans for the site.

In the picture below can you confirm what the pH was at the outlet to the creek when the fire happened. From the plans it appears all the parking lot area in front leads to the pond and then discharged and the highlighted discharge point services beside the property and behind it. Thanks

Stacey

14245 56th Ave, Surrey, BC, Canada V3X 3A2
T 604 591-4321 | F 604 591 8693 | SThomson@surrey.ca

Please consider the environment before printing this email

Riedler, Harold ENV:EX

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:22 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Ok...thanks for the update. Could you please let me know the last time Jim and MLA Bains spoke, I'll make sure to note it the next time he calls.

Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 10:49 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: FYI: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-

The decision to close and reopen the site (and therefore the communication around this) rests with the Fire Commissioner i.e. local government. We were able to convince them to have this meeting yesterday and suggested ongoing communications with affected businesses. Jim has been in touch with MLA Bains. I don't see that there is anything else we can do except direct MLA Bains to the local officials who will decide when the site is safe to reopen.

Vickie

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 6:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...
Thanks,
Rish

From: Jackson, Vickie ENV:EX
Sent: Monday, April 18, 2011 02:32 PM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX

Sent: Monday, April 18, 2011 9:42 AM

To: Jackson, Vickie ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX

Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi – the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX

Sent: Monday, April 18, 2011 9:23 AM

To: Jackson, Vickie ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX

Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 9:50 PM
To: ENV !Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a “Reoccupation Plan” in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and

proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.

- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 11:45 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX; Standen, Jim ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-They spoke last Thursday.

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:22 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Ok...thanks for the update. Could you please let me know the last time Jim and MLA Bains spoke, I'll make sure to note it the next time he calls.

Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 10:49 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: FYI: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-

The decision to close and reopen the site (and therefore the communication around this) rests with the Fire Commissioner i.e. local government. We were able to convince them to have this meeting yesterday and suggested ongoing communications with affected businesses. Jim has been in touch with MLA Bains. I don't see that there is anything else we can do except direct MLA Bains to the local officials who will decide when the site is safe to reopen.

Vickie

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 6:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...

Thanks,

Rish

Sent: Monday, April 18, 2011 02:32 PM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi – the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:23 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX

Sent: Friday, April 15, 2011 9:50 PM

To: ENV !Emergency Incident Contacts

Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX

Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the plan and decision to allow business to return to their respective units as soon as possible.

an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.

- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:54 AM
To: Jackson, Vickie ENV:EX; Standen, Jim ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Vickie – thanks.

Jim – as noted in my initial e-mail. Can you call him once more to let him know the meeting took place Monday morning and that from now he needs to talk to local official and not ask the Ministry for help? Or would you like me to call?

Thx,
Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 11:45 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX; Standen, Jim ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-They spoke last Thursday.

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:22 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Ok...thanks for the update. Could you please let me know the last time Jim and MLA Bains spoke, I'll make sure to note it the next time he calls.

Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 10:49 AM
To: Sharma, Rishi ENV:EX

Subject: FYI: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-

The decision to close and reopen the site (and therefore the communication around this) rests with the Fire Commissioner i.e. local government. We were able to convince them to have this meeting yesterday and suggested ongoing communications with affected businesses. Jim has been in touch with MLA Bains. I don't see that there is anything else we can do except direct MLA Bains to the local officials who will decide when the site is safe to reopen.

Vickie

From: Sharma, Rishi ENV:EX

Sent: Tuesday, April 19, 2011 6:42 AM

To: Jackson, Vickie ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX

Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...

Thanks,

Rish

From: Jackson, Vickie ENV:EX

Sent: Monday, April 18, 2011 02:32 PM

To: Sharma, Rishi ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX

Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX

Sent: Monday, April 18, 2011 9:42 AM

To: Jackson, Vickie ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX

Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi - the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:23 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX
Sent: Friday, April 15, 2011 9:50 PM
To: ENV !Emergency Incident Contacts
Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX
Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.

Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.

- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.

- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Hofweber, Jim E ENV:EX
Sent: Tuesday, April 19, 2011 10:55 AM
To: Riedler, Harold ENV:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Poss, Angie PAB:EX
Subject: RE: REVIEW - Issues Note: Precision Plating

Thanks Harold. Excellent explanation.

From: Riedler, Harold ENV:EX
Sent: Tuesday, April 19, 2011 10:43 AM
To: Hofweber, Jim E ENV:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Poss, Angie PAB:EX
Subject: REVIEW - Issues Note: Precision Plating

Jim, the tactical evacuation is still under the control of Ministry of Environment. The reason why the other agencies did not take lead in declaring an evacuation is as follows:

- 1) Health Authority does not have any legislative control for the commercial site and surrounding commercial property. A risk to public health is a stretch.
- 2) Worksafe BC has no legislative controls in place to manage many units that are owner operated (no employees).
- 3) Provincial Emergency Program did not want to declare an evacuation because public safety was not at risk.
- 4) The Fire Department did not want to issue an evacuation as there was no fire or explosion that would enact their evacuation under the Fire Act. The fire department had difficulty defending a potential for fire considering the nature of the dilute spilled chromic acid as a potential fire restarter and felt that their interests would be better served under the evacuation application under the Environmental Management Act.

Our evacuation will remain in effect until the tanks that had been structurally compromised in the fire (approximately 6 toxic plating solution tanks) have their contents pumped to drums to reduce the possibility of an accidental bump and mass release to the environment and to neighbouring units during clean-up activities in the tight space between the tanks. Once these tank contents have been secured, site security can be transitioned under the control of the Fire Department for in-building remedial work as fire sprinkling systems and power to all units remain off and will only be turned on in a controlled, staged fashion to ensure safe reoccupation. Worksafe BC will monitor the reoccupancy to ensure that employers provide a safe work environment for the units that have employees.

MoE will continue to monitor hazardous waste management and environmental impact assessment work.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Poss, Angie PAB:EX
Sent: Tuesday, April 19, 2011 9:48 AM
To: Hofweber, Jim E ENV:EX
Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Riedler, Harold ENV:EX
Subject: RE: FOR REVIEW - Issues Note: Precision Plating

My understanding is it is technically our tactical evacuation, but that that was largely due to some confusion among the fire department on site during the original fire. We are maintaining the evacuation base don discussions with Worksafe BC and the fire department. Our evacuation will be lifted once the environmental risk is reduced, however the fire department may wish to extend their own order at that point if the fire risk remains.

Graham - can you confirm this is correct?

Angie

From: Hofweber, Jim E ENV:EX

Sent: Tuesday, April 19, 2011 9:30 AM

To: Poss, Angie PAB:EX

Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX; Riedler, Harold ENV:EX

Subject: RE: FOR REVIEW - Issues Note: Precision Plating

Looks ok Angie

S13

S13

From: Poss, Angie PAB:EX

Sent: Tuesday, April 19, 2011 8:47 AM

To: Hofweber, Jim E ENV:EX

Cc: Paterson, Kellie ENV:EX; Knox, Graham ENV:EX

Subject: FOR REVIEW - Issues Note: Precision Plating

Jim – For your review, an issues note on the recent spill and fire at Precision Plating in Surrey. Thanks to Graham and Harold for their review and input. MO is asking for this by the end of the day so would appreciate your review this morning.

Thanks

Angie

<< File: IN_Precision Plating Hazmat Fire_April 18 2011_D1.doc >>

s.13

KEY FACTS REGARDING THE ISSUE:

A number of businesses remain closed following an April 12, 2011 fire at Precision Plating Ltd. in Surrey. The fire caused a spill of a large amount of chromic acid, a toxic, carcinogenic and combustible chemical used in the plating process. Chromic acid can result in fire when comes into contact with organic materials creating an additional fire hazard.

Two strata business complexes were initially within the evacuation zone: the site of the fire and spill (13055 84 Ave.) and a second nearby complex at 13045 84th Ave. The Ministry of Environment evacuated the area during the initial fire and spill. The evacuation is supported by the Surrey Fire Department and WorkSafe BC.

Businesses at the second evacuated complex have since been allowed back, but the primary fire and spill site remains evacuated because of an ongoing risk of another fire caused by the spilled chromic acid. Power to the entire building remains off because the transformers are resting in pooled waste chromic acid. Some of the businesses in the evacuation zone are heavily saturated with contamination and will need significant tear out and removal of the contaminated materials which is likely to take more than a week. The stormwater lines are also contaminated and need remediation.

The building owner has hired a hazardous materials response contractor who completed treating and stabilizing the spilled material, reducing the potential fire risk from high to moderate. A number of business owners who rent space from the building owner have expressed concerns about the impact the prolonged evacuation is having on their business. They fear the owner and/or environmental contractors are deliberately slowing the clean-up process.

Ministry of Environment environmental emergency response officers responded to the initial fire and have since made several visits to the site and had regular meetings with the property owner, the fire department, the environmental contractor, the business operators, and others. Meetings were most recently held on Friday, April 15 and again on Monday April 18.

The property management company has been reminded that they are responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies. All tenants and businesses have been provided with a contact number for Canstar (the Responsible Party's lead contractor for cleanup and site security) for on-going updates on re-occupation and changes to the security zone.

Next steps:

The hazardous materials response contractor will develop a reoccupation plan in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by a number of agencies including MoE, the Surrey Fire Department, Worksafe BC and the property management company. It will then be shared with impacted businesses.

The level of contamination in each unit varies. Each unit, as well as the overall site, will be assessed, cleaned of any remaining toxic spilled material by qualified professionals, then reviewed by the Surrey Fire Department, MoE and WorkSafe BC, before businesses will be allowed to return.

MoE will likely transfer site security and oversight to the Fire Department and Worksafe BC as soon as electroplating solutions are secured to prevent any further risk of spill to the environment.

Riedler, Harold ENV:EX

From: Standen, Jim ENV:EX
Sent: Tuesday, April 19, 2011 11:55 AM
To: Sharma, Rishi ENV:EX; Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

I think it would carry more weight coming from the MO but can call if you like.

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:54 AM
To: Jackson, Vickie ENV:EX; Standen, Jim ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Vickie – thanks.

Jim – as noted in my initial e-mail. Can you call him once more to let him know the meeting took place Monday morning and that from now he needs to talk to local official and not ask the Ministry for help? Or would you like me to call?

Thx,
Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 11:45 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX; Standen, Jim ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-They spoke last Thursday.

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:22 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Ok...thanks for the update. Could you please let me know the last time Jim and MLA Bains spoke, I'll make sure to note it the next time he calls.

Rish

Rishi Sharma
Ministerial Assistant to the

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 10:49 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: FYI: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-

The decision to close and reopen the site (and therefore the communication around this) rests with the Fire Commissioner i.e. local government. We were able to convince them to have this meeting yesterday and suggested ongoing communications with affected businesses. Jim has been in touch with MLA Bains. I don't see that there is anything else we can do except direct MLA Bains to the local officials who will decide when the site is safe to reopen.

Vickie

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 6:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...
Thanks,
Rish

From: Jackson, Vickie ENV:EX
Sent: Monday, April 18, 2011 02:32 PM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi – the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX

Sent: Monday, April 18, 2011 9:23 AM

To: Jackson, Vickie ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX

Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX

Sent: Friday, April 15, 2011 9:50 PM

To: ENV !Emergency Incident Contacts

Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX

Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.

property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.

- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with

evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.

- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 12:01 PM
To: Standen, Jim ENV:EX; Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Ok...will call, apologize for the delay, see if he has heard anything further from the business owner and that they need to contact local officials. Is there a number I can give to him?

From: Standen, Jim ENV:EX
Sent: Tuesday, April 19, 2011 11:55 AM
To: Sharma, Rishi ENV:EX; Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

I think it would carry more weight coming from the MO but can call if you like.

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:54 AM
To: Jackson, Vickie ENV:EX; Standen, Jim ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Vickie – thanks.

Jim – as noted in my initial e-mail. Can you call him once more to let him know the meeting took place Monday morning and that from now he needs to talk to local official and not ask the Ministry for help? Or would you like me to call?

Thx,
Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 11:45 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX; Standen, Jim ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-They spoke last Thursday.

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:22 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Ok...thanks for the update. Could you please let me know the last time Jim and MLA Bains spoke, I'll make sure to note it the next time he calls.

Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 10:49 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: FYI: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-

The decision to close and reopen the site (and therefore the communication around this) rests with the Fire Commissioner i.e. local government. We were able to convince them to have this meeting yesterday and suggested ongoing communications with affected businesses. Jim has been in touch with MLA Bains. I don't see that there is anything else we can do except direct MLA Bains to the local officials who will decide when the site is safe to reopen.

Vickie

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 6:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...
Thanks,
Rish

From: Jackson, Vickie ENV:EX
Sent: Monday, April 18, 2011 02:32 PM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX

Sent: Monday, April 18, 2011 9:42 AM

To: Jackson, Vickie ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX

Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi – the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX

Sent: Monday, April 18, 2011 9:23 AM

To: Jackson, Vickie ENV:EX

Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX

Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Kiedler, Harold ENV:EX

Sent: Friday, April 15, 2011 9:50 PM

To: ENV !Emergency Incident Contacts

Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX

Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.
- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and

hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.

- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 12:07 PM
To: Sharma, Rishi ENV:EX; Standen, Jim ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-

Surrey Fire Services general number is 604 543-6700. The Fire Chief's name is Len Garis

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 12:01 PM
To: Standen, Jim ENV:EX; Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Ok...will call, apologize for the delay, see if he has heard anything further from the business owner and that they need to contact local officials. Is there a number I can give to him?

From: Standen, Jim ENV:EX
Sent: Tuesday, April 19, 2011 11:55 AM
To: Sharma, Rishi ENV:EX; Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

I think it would carry more weight coming from the MO but can call if you like.

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:54 AM
To: Jackson, Vickie ENV:EX; Standen, Jim ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Vickie – thanks.

Jim – as noted in my initial e-mail. Can you call him once more to let him know the meeting took place Monday morning and that from now he needs to talk to local official and not ask the Ministry for help? Or would you like me to call?

Thx,
Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 11:45 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX; Standen, Jim ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-They spoke last Thursday.

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 11:22 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Ok...thanks for the update. Could you please let me know the last time Jim and MLA Bains spoke, I'll make sure to note it the next time he calls.

Rish

Rishi Sharma
Ministerial Assistant to the
Honourable Terry Lake
Minister of Environment
Telephone: (250) 387-1187
E-mail: rishi.sharma@gov.bc.ca

From: Jackson, Vickie ENV:EX
Sent: Tuesday, April 19, 2011 10:49 AM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: FYI: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi Rish-

The decision to close and reopen the site (and therefore the communication around this) rests with the Fire Commissioner i.e. local government. We were able to convince them to have this meeting yesterday and suggested ongoing communications with affected businesses. Jim has been in touch with MLA Bains. I don't see that there is anything else we can do except direct MLA Bains to the local officials who will decide when the site is safe to reopen.

Vickie

From: Sharma, Rishi ENV:EX
Sent: Tuesday, April 19, 2011 6:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX; Wenezenki-Yolland, Cheryl EAO:EX; Loiacono, Sabrina ENV:EX
Subject: Re: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi all - I still haven't heard back on these...I want to make sure this doesn't become a bigger issue than it already is...

Thanks,

Rish

From: Jackson, Vickie ENV:EX
Sent: Monday, April 18, 2011 02:32 PM
To: Sharma, Rishi ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Rish-Did you hear back on these?

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:42 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: RE: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

Hi – the MLA would like us to e-mail him to confirm today's 10:00am mtg is taking place. Is that possible?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Honourable Terry Lake

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Sharma, Rishi ENV:EX
Sent: Monday, April 18, 2011 9:23 AM
To: Jackson, Vickie ENV:EX
Cc: Gilmore, Dan PAB:EX; Johnston, Karen PAB:EX; Riedler, Harold ENV:EX
Subject: FW: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM
Importance: High

Hi all –

I just received a call from MLA Harry Bains saying a business owner next door to the site feels there is a lack of communication between MoE staff and people affected by the spill.

Is there a public meeting today to update the public?

Thanks,

Rish

Rishi Sharma

Ministerial Assistant to the

Minister of Environment

Telephone: (250) 387-1187

E-mail: rishi.sharma@gov.bc.ca

From: Riedler, Harold ENV:EX

Sent: Friday, April 15, 2011 9:50 PM

To: ENV !Emergency Incident Contacts

Cc: Gilmore, Dan PAB:EX; Fuller, Ryan ENV:EX; SG PEP ECC1 SG:EX

Subject: Code 2 - Precision Plating Ltd., Surrey - Update - April 15, 2011 @ 7:45 PM

The following provides a further update in regard to response to the April 12, 2011 chromic acid spill as a result of a fire at Precision Plating Ltd. @ Unit 101, 13045 – 84th Avenue, Surrey (Dangerous Goods Incident File Number 110134).

- The hazardous materials response contractor has completed treating and stabilizing the readily accessible spilled material within the entire 13045 – 84th Avenue, Surrey strata owned building to reduce the potential fire risk from high to moderate.
- 9:00 AM April 15, 2011, a meeting at the general work site was held with agency stakeholders, property management and hazardous materials and restoration contractors to obtain a current work status reports and to progress planning and remedial measures to advance timelines for strata unit preoccupation.
- The meeting attendees agreed that the impacted units would be assessed and cleared by a Certified Industrial Hygienist and power and fire sprinkler water would be restored for those units found to be safe for reoccupation.
- The hazardous materials response contractor will develop a "Reoccupation Plan" in consultation with the restoration company that will include a schedule of activities to return businesses to their units. This plan will be reviewed by the agency stakeholders (Fire Department, Worksafe BC and MOE Environmental Emergency Management) and the property management company before disclosing the plan to the impacted business operators on April 18, 2011..
- The property management company will be provided with progress updates and will convey this information to the impacted strata business operators in a timely manner. The property management company will also be the lead contact for their strata clients to field inquiries and complaints.
- The property management company retained an environmental consultant to proceed with a receiving environment impact assessment commencing this weekend. This consulting firm will also confirm site drainage flows and evaluate the level of contamination still remaining within the drainage system.
- A group of impacted and highly anxious business owners were met by the Surrey Fire Chief, Hazardous Waste Contractor and the Environmental Emergency Response Officer just outside the secured work zone to address their expressed concerns at 10:00 AM. The meeting served as an opportunity to inform the effected unit occupants of the progress made in reducing the fire threat and the planned action to allow business to return to their respective units as soon as possible.

- A meeting was scheduled for 10:00 AM Monday, April 18th with the business group to provide an update on progress made in hazardous waste removal from their units and of hygiene monitoring results.
- 1650 hours, April 15th, the hazardous materials response contractor concluded discussions with the property management company representative and were advised that funds could not be secured until Monday, April 18th to assure payment for the planned hygiene consultant assessment work and hazardous waste clean-up that was proposed to occur this weekend. Although the contractor cannot proceed with further clean-up until funds are secured, the contractor will proceed in supporting the industrial hygiene assessment work.
- The hazardous materials response contractor has their response team and resources ready to continue work as soon as funding is provided by property management.
- The property management company representative has been reminded that the property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancies.
- A frustrated displaced business operator has advised that he will consider breaching security to access and work in his unit, regardless of the expressed risk to his personal safety. The hazardous materials response contractor has agreed to advise Worksafe BC concerning the potential conflict with evacuated strata representatives and will develop a contingency plan to support the doubling of security to adequately respond to a trespass of the evacuation zone. A security representative with people skills will address any challenge from agitated business owners.
- Should a business owner physically challenge security, the owner will not be restrained and the Fire Department, Police, Hazardous Materials Response Contractor, Worksafe BC, Property Management and the MOE Senior Emergency Response Officer will be immediately advised.
- The Senior Environmental Emergency Response Officer will continue to monitor the subject response and relay updates as new information becomes available.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Tuesday, April 19, 2011 12:29 PM
To: 'sbarton@hazco.com'
Cc: 'Fnberg@surrey.ca'
Subject: Precision Plating - Has Hazco received money to proceed, today?

Please advise as to whether the Paragon Realty (property management company) provided funding to allow Hazco to proceed with today's remediation?

Also, please accept this email as acknowledgment that we encourage the funding to be used to secure any plating solutions that are currently contained in containers that have been compromised by the fire (heat exposure). This is a priority as we do not want a risk associated with an accidental bump and mass spill of toxic plating solutions to occur while inspection and remedial work proceeds in that unit. In conversation concerning this point, it is my understanding that this can be accomplished with little manpower and resources.

Also, we continue to encourage the strategy agreed by the property management company, agencies and stakeholders to work from the least contaminated in direction towards most contaminated units to allow an efficient means to help facilitate recommencement of business.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Barton, Shawn [SBarton@hazco.com]
Sent: Tuesday, April 19, 2011 2:04 PM
To: Riedler, Harold ENV:EX
Cc: 'Fnberg@surrey.ca'
Subject: Re: Precision Plating - Has Hazco received money to proceed, today?

We have been advised that Paragon, under instruction from the strata council is not going to provide funding at this time. The above's insurance adjuster is entering the picture today at 3pm, I will be update following that meeting.

Acknowledged re: priority sequence and work activities as outlined in your message.

Shawn Barton, RSO | Project Manager, Emergency Response and Confined Space Entry
HAZCO Environmental Services, A CCS Company
13511 Vulcan Way,
Richmond, BC V6V-1K4

604.214.7000; Office

s.22

604.214.7017; Fax

Fax

SBarton@hazco.com

www.hazco.com

From: Riedler, Harold ENV:EX <Harold.Riedler@gov.bc.ca>
To: Barton, Shawn
Cc: 'Fnberg@surrey.ca' <Fnberg@surrey.ca>
Sent: Tue Apr 19 13:29:18 2011
Subject: Precision Plating - Has Hazco received money to proceed, today?

Please advise as to whether the Paragon Realty (property management company) provided funding to allow Hazco to proceed with today's remediation?

Also, please accept this email as acknowledgment that we encourage the funding to be used to secure any plating solutions that are currently contained in containers that have been compromised by the fire (heat exposure). This is a priority as we do not want a risk associated with an accidental bump and mass spill of toxic plating solutions to occur while inspection and remedial work proceeds in that unit. In conversation concerning this point, it is my understanding that this can be accomplished with little manpower and resources.

Also, we continue to encourage the strategy agreed by the property management company, agencies and stakeholders to work from the least contaminated in direction towards most contaminated units to allow an efficient means to help facilitate recommencement of business.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

This email and any files transmitted with it are solely intended for the use of the addressee(s) and may contain information that is confidential and privileged. If you receive this email in error, please advise us by return email immediately. Please also disregard the contents of the email, delete it and destroy any copies immediately.

CCS Corporation and its subsidiaries do not accept liability for the views expressed in the email or for the consequences of any malicious code that may be transmitted with this email.

This email is also subject to copyright. No part of it should be reproduced, adapted or transmitted without the written consent of the copyright owner.

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Tuesday, April 19, 2011 2:25 PM
To: Knox, Graham ENV:EX
Subject: SERO meeting

Not able to make 2:30 pm meeting today as I am attending the 3:00 pm meeting at Precision Plating. Just to confirm, Graham, are we still meeting for the EPDP meeting, tomorrow? In reflection, I wasn't sure if you were referring to cancelling this afternoon's meeting and tomorrow's?

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

April 20, 2011

PEC Ref: 11952 L02

Canstar Restorations Ltd.
78 Fawcett Road
Coquitlam, BC V3K 6V5

Attention: Greg Chaisson

Reference: Monitoring and Sampling Results – Selected Units, 13045 84th Avenue, Surrey, BC

Introduction

Pacific Environmental Consulting and Occupational Hygiene Services (PEC) was retained by Canstar Restorations Ltd. (Canstar) to assess selected units at 13045 84th Avenue, Surrey, BC to determine if they could be re-occupied, following a chemical spill associated with a fire in Unit 101 (Precision Plate Co.).

Work Conducted

PEC performed the following activities:

April 15, 2011

- Reviewed the exterior of the site;
- Obtained information from the owner of Precision Plate Co.;
- Reviewed available MSDS (only MSDS for a few products (Chromic Acid Flake, Sulfuric Acid) were available, more chemicals are expected to be present);
- Developed a sampling plan.

April 16 and 17, 2011

- Conducted inspections and sampling of units not directly impacted by the chemical release from Unit 101 (Precision Plate Co.).
- The units and areas inspected included:
 - 107
 - 108
 - 109
 - 110
 - 111
 - 112
 - 119/120
 - Electrical room
- Sampling included monitoring for volatile organic compounds (VOCs); wipe sampling for chromium, nickel as well as sulphur; and air testing for acid gases.

April 18, 2011

- Conducted wipe sampling in the adjacent building (13055 84th Avenue) that was not affected by the chemical release from Unit 101 of Building 13045 84th Avenue, to determine background levels, for comparison.

- The units sampled included:
 - 108
 - 109
 - 101
 - 103
- Conducted wipe sampling for chromium, nickel and sulphur at PEC's North Vancouver office to collect background comparison levels for these compounds.

Sampling Methodology

Acid Gas Sampling

In order to measure sulphuric acid and any other acid gas in air, acid gas sampling was conducted using a hand operated Gastec pump and acid-gas detection colorimetric tubes. A known volume of air was drawn through a tube containing an acid-gas chemical reagent. The reagent changes colour in the presence of the acid gases. The length of stain or color intensity indicates the airborne acid gas levels. Approximately 2 to 3 samples were collected per unit.

Volatile Organic Compounds Monitoring

A calibrated direct reading portable photoionization detector (PID) (ppbRAE 3000, RAE Systems) was used to determine the concentration of VOCs in parts per billion (ppb). The monitor uses a UV lamp (10.6 V) to produce high-energy photons which photo-ionize organic vapours which then eject electrons that can then be detected as an electric current. Note that although this instrument detects the concentration of VOCs it is not able to identify the type of VOCs present. The highest VOCs level in each unit was recorded.

Surface Wipe Sampling

Surface sampling was performed by swabbing a 1ft² area of non porous horizontal surfaces using a Ghost wipe (manufactured by Environmental Express), and stored in a sealed Zip-lock bag. The samples were submitted to Maxxam Analytics in Burnaby for analysis, based on the EPA 200.7 Analytical Method using inductively coupled plasma (ICP). One surface wipe sample was collected in each unit inspected, in a location expected to be the most likely impacted by contamination associated from the fire and subsequent flood.

For comparison purposes, surface wipe samples were collected from the adjacent building (13055 84th Avenue) and from the PEC North Vancouver office.

Please refer to Appendix B for a summary of potential health hazards associated with the chemical spill.

Findings

Acid Gases

Acid gases were not detected in the units inspected (detection limit of testing method 1 ppm). Please refer to Table 1 in Appendix A for the full results of acid gas sampling.

Volatile Organic Compounds

No significant levels of VOCs were detected in the units inspected, unless a source (such as solvents) within each inspected unit were present. Please refer to Table 2 in Appendix A for the results of VOCs monitoring at each location.

Surface Wipe Sampling

Levels of total chromium and total sulphur were higher in the samples collected from the units sampled in 13045 84th Avenue, compared to the samples collected from the adjacent building (13055 84th Avenue) and from the PEC North Vancouver office. Please refer to Tables 3, 4 and 5 in Appendix A for full results of surface wipe sampling.

Discussion

No detectable acid gases or significant VOCs were present in the units tested; therefore, there should no longer be a risk of an inhalation hazard to gases or vapours, provided the areas are well sealed from the adjacent units. For surfaces, sampling was conducted for metals, but specifically, sulphur, nickel and chromium will be used as indicators of contamination.

There are no standards for acceptable levels of chromium on surfaces in indoor environments. There are allowable levels of chromium in other substrates such as drinking water, breathing air and soil. However, adjusting these to indoor surfaces is difficult. In addition, chromium comes in different forms. Hexavalent Chromium (Cr^{6+}), the most toxic form, readily converts to trivalent chromium (Cr^{3+}) when it comes in contact with water. The sampling that was done tests only for total chromium and cannot distinguish between Cr^{6+} and Cr^{3+} , to be conservative and safe, we have to assume that all the chromium detected is Cr^{6+} . The Occupational Safety and Health Administration (OSHA) in the US has set target level for Cr^{6+} on surfaces of $0.05 \text{ ug}/100 \text{ cm}^2$; however, this number is not based on potential health effects. Based on the OSHA target level, Brookhaven National Laboratory (BNL) has proposed for chromium 6 that a level of $4.46 \text{ ug}/\text{ft}^2$ would be considered acceptable for release criteria to a non-regulated area. However, again, this level is not based on any health related effects.

PEC proposes to use the average of the chromium levels detected in the units in the adjacent building as background level and anything above this level is considered to be elevated. The average level is $6.2 \text{ ug}/\text{ft}^2$, which is only slightly higher than that suggested by BNL laboratories. Levels of total chromium that exceed this level should be considered to be contaminated. Therefore, all samples collected in building 13045, with the exception of the one sample from the tile floor in the mezzanine (kitchen) of unit 112 are contaminated. However, we are not able to confirm, if this contamination is a result of the damages associated with the fire or a result of the ongoing activities and was present prior to the fire. The potential for health effects at this time is unknown. Note also that all of the chromium present may not be present as Cr^{6+} .

Recommendations and Conclusions

We recommend that all horizontal surfaces, particularly those that would be frequently contacted, in the units inspected during this investigation (Units 107, 108, 109, 110, 111, 112, 119/120) be cleaned with a combination of cleaning with a High Efficiency Particulate Air (HEPA) filter equipped vacuum and washing with a detergent, using appropriate worker protection (Tyvex and $\frac{1}{2}$ face respirators with particulate cartridges). Following the cleaning, surfaces should be re-sampled.

Alternatively, air sampling could be conducted during the first few days of occupancy to determine if the chromium on surfaces is becoming airborne at concentrations greater than that permitted by WorkSafeBC. If this is undertaken, occupants need to be made aware of the presence of the chromium and the potential health risks.

Once the contamination from the remainder of the building is removed and all surfaces cleaned, we recommend testing of horizontal surfaces for the presence of total and Cr⁶⁺ and air sampling, prior to entry of unprotected personnel in all units of the building.

Exclusions

This report does not address safety or fire concerns in the units inspected, such as the operation of the sprinkler system or access to the common hallway as a secondary fire escape.

The following units have not been inspected and should not be entered until cleaning and then testing has been conducted:

- | | | |
|-------|-------|-------|
| • 101 | • 105 | • 115 |
| • 102 | • 106 | • 116 |
| • 103 | • 113 | • 117 |
| • 104 | • 114 | • 118 |

Limitations

This report has been prepared in accordance with established Industrial Hygiene practices. It is intended for the exclusive use of Canstar Restorations Ltd. in order to assist in complying with the requirements of the WorkSafeBC Occupational Health and Safety Regulation. The use of this document for any other purposes is at the sole risk of the user.

Statement of Qualifications

Pacific Environmental Consulting and Occupational Hygiene Services (Vancouver) has been providing consulting services in the environmental and industrial hygiene fields, since 1990. Our industrial hygiene expertise ensures that all projects are performed in accordance with the WorkSafeBC Occupational Health & Safety Regulations. Our personnel include the following:

- Industrial Hygienists (CIH, ROH)
- Professional Engineers (PEng)
- Registered Professional Biologist (RPBio)
- Canadian Registered Safety Professional (CRSP)
- Occupational Health and Safety Technicians.

Our company also carries Comprehensive General Liability and Environmental Errors & Omissions Liability Insurance.

Yours truly,

Pacific Environmental Consulting & Occupational Hygiene Services

Anna Goulet, BSc.
Project Manager
Field Investigation and Report

Shirley Wang, MSc. (O&EH)
Environmental Technologist
Field Investigation and Report

Gordon Wedman, CIH, ROH
Branch Manager, Nanaimo
Report Review

Jennifer Blair, MSc, CIH, RPBio.
Manager, Industrial Hygiene
Field Investigation & Report Review

Ref: 11952 L02



Appendix A: Sampling and Monitoring Data Results

Table 1: Acid Gas Results (Colourmetric Tubes)

Unit Number	Location	Acid Gas Concentration (ppm)
107	Office Area	< 1
	Warehouse	< 1
	Mezzanine Office	< 1
108	By Back Door	< 1
	Mezzanine	< 1
109	By Back Door	< 1
	Main Warehouse	< 1
110	By Back Door	< 1
	Mezzanine	< 1
111	By Door to Hallway	< 1
112	Office (Mezzanine)	< 1
	Warehouse	< 1
	Office (Main Floor)	< 1
119/120	By Hallway Door	< 1
	Mid-shop	< 1
Electrical Room	Lower Level	< 1
	Upper Level	< 1

Note: "<" means below the detection limit of the sampling method.

Table 2: VOCs Results (ppbrae)

Unit Number	Location	VOCs (ppb)
107	Entranceway	1,150
	Warehouse	922
	Kitchen (Ground Floor Offices)	909
	Mezzanine	764
108	Warehouse (back) Solvents Present	5,000
	Front Office	4,741
	Mezzanine (Office)	4,472
109	Main Entrance	900
	Center of Warehouse	1,139
	Back of Warehouse	974
110	Main Area	800
	Office (front)	793
	Warehouse (entrance)	910
	By Door to Hallway	920
111	By Hallway Door	724
	Entrance to Suite	600
112	Mezzanine (open area)	155
	Mezzanine office	745
	Warehouse (entrance)	846
	Warehouse (shared wall)	1,343
	Office Main floor	1,482
119/120	Wood shop Floor By Hallway Door	620
Electrical Room	Lower Level	32

Note: additional readings were made, but not all were recorded, if levels in all areas of the unit were similar.

**Table 3: Floor Surface Sampling Results
13045 84th Avenue**

Sample ID	Location	Floor Material	Total Chromium Concentration (µg/ft ²)	Total Nickel Concentration (µg/ft ²)	Total Sulphur Concentration (µg/ft ²)
11952 – 1	Unit 119/120 Warehouse (by Door to Hallway)	Concrete Floor	23.4	3	905
11952 – 2	Unit 111 Warehouse (by Door to Hallway)	Concrete Floor	14.3	5	1,685
11952 – 3	Unit 110 Warehouse (by Door to Hallway)	Concrete Floor	76.0	16	1,805
11952 – 4	Unit 108 Warehouse (by Door to Hallway)	Concrete Floor	14.0	3	246
11952 – 5	Unit 107 Warehouse (central area)	Concrete Floor	23.0	35	1,105
11952 – 6	Blank	n/a	< 0.6	< 1	145
11952 – 7	Unit 112 Mezzanine Kitchen	Floor Tile	1.2	2	74
11952 – 8	Unit 112 Warehouse (central area)	Concrete Floor	75.1	19	162

Notes:

1. "n/a" means not applicable for the blank sample; "<" means below the detection limit of analysis;
2. Since sulphur was detected in the blank sample, the concentrations of sulphur in all other samples were corrected based on the blank.

**Table 4: Floor Surface Sampling Results
PEC North Vancouver Office
1336 Main Street, North Vancouver**

Sample ID	Location	Floor Material	Total Chromium Concentration (µg/ft ²)	Total Nickel Concentration (µg/ft ²)	Total Sulphur Concentration (µg/ft ²)
11952 - 9	PEC Office	Sheet Vinyl	< 0.6	< 1	41

Notes:

1. "n/a" means not applicable for the blank sample; "<" means below the detection limit of analysis;
2. Since sulphur was detected in the blank sample, the concentrations of sulphur in all other samples were corrected based on the blank.

Table 5: Floor Surface Sampling Results
13055 84th Avenue

Sample ID	Location	Floor Material	Total Chromium Concentration (µg/ft ²)	Total Nickel Concentration (µg/ft ²)	Total Sulphur Concentration (µg/ft ²)
11952 – 10	Unit 108	Concrete	2.2	10	78
11952 – 11	Unit 109	Concrete	1.9	2	169
11952 – 12	Unit 101	Concrete	9.9	6	1,127
11952 – 13	Unit 103	Concrete	10.8	6	105
11952 – 14	Blank	n/a	< 0.6	< 1	143
Average			6.2	12	406

Notes:

1. "n/a" means not applicable for the blank sample; "<" means below the detection limit of analysis;
2. Since sulphur was detected in the blank sample, the concentrations of sulphur in all other samples were corrected based on the blank.

Appendix B: Summary of Hazards

It is our understanding that an unknown volume of chromium acid (also referred to as chromium trioxide (CrO_3)) was spilled in Unit 101 and affected several of the adjacent units. It is also suspected that nickel and sulphuric acids also stored in Unit 101 were spilled, but in less quantities. Based on this reported information, the hazards of concern are chromium acid, sulphuric acid, nickel, chromium, sulphur and VOCs (volatile organic compounds; the by-products of reactions of acids with organic materials).

Chromium Acid:

Chromium acid is a type of hexavalent chromium compound. It is a strong acid and highly toxic, corrosive, and carcinogenic. As a powerful oxidizer, it can ignite certain organic materials (such as ethanol) on contact. The International Agency for Research on Cancer (IARC) classifies hexavalent chromium as a Group 1 carcinogen, with a well-established link to lung cancer. Although the respiratory tract is the major target of hexavalent chromium exposure, skin and renal effects have also been reported. Irritation and damage to the nose, throat, or lung are reported from high levels of inhalation exposure. Allergic contact dermatitis can develop from dermal exposure to either liquid or solid forms of hexavalent chromium, and can eventually cause thickening of the skin.

Sulphuric Acid:

The liquid form of sulphuric acid is not considered toxic besides its obvious corrosive hazard, and the main occupational risks are skin contact leading to burns. However, the aerosol of sulphuric acid poses greater risk to human health. The IARC has classified occupational exposure to strong inorganic mists containing sulphuric acid as being carcinogenic to humans (Group 1). Epidemiological studies have shown increased rates of laryngeal cancers in exposed workers and some links to lung and nasal cancers.

Nickel:

Elemental nickel (metallic nickel) is a very common cause of allergic contact dermatitis, with 10-20% of the population reporting a reaction. Some people who are sensitized to nickel may also have asthma that is related to their nickel exposure. Nickel element has also been linked with pneumoconiosis. Nickel compounds (e.g. soluble nickel, insoluble nickel, subsulphide nickel) have been classified by the IARC as being carcinogenic to humans (Group 1), with a definite link to human lung and nasal cancer.

Volatile Organic Compounds:

VOCs in general are numerous and varied, typically not acutely toxic but have chronic effects. Adverse health effects include eye, nose, and throat irritation; headaches, loss of coordination, nausea; damage to liver, kidney, and the central nervous system. Some organics, such as benzene can cause cancers.



Head Office:
78 Fawcett Road
Coquitlam, BC
Canada V3K 6V5
Tel: 604.549.0099
Fax: 604.549.0199
Toll Free: 1.866.578.3138
www.canstarrestorations.com

Surrey Branch Office:
Tel: 604.882.6505
Fax: 604.882.6518
Toll Free: 1.866.578.3138

Whistler Branch Office:
Tel: 604.935.2050
Fax: 604.935.2058
Toll Free: 1.866.578.3138

13045 84th Avenue, Surrey 11-00826-E-GC

SE Unit 112 – Dulac Roofing
E Unit 111 – Ganchang Thermal Insulation
E Unit 110 – S22
E Unit 109 – s.22
E Unit 108 – Best Choice Millwork – s.22
NE Unit 107 – Thirst First
N - W Unit 103, 102 & 122-124 – Affinitem Manufacturing
SW Unit 119 – 121 – Morden Door
S Unit 118 – 115 – City Revival Church
S Unit 114, 113 – Golden Trading Co.
N Unit 101 – Precision Plating Co.

151.9

#124	#101	#102	#103	#104	#105	#106	#107
#123	#111	#120	Medf.	#121	ELECT.	#116	#115
#122	#114	#113	#112	#111	#110	#109	#108



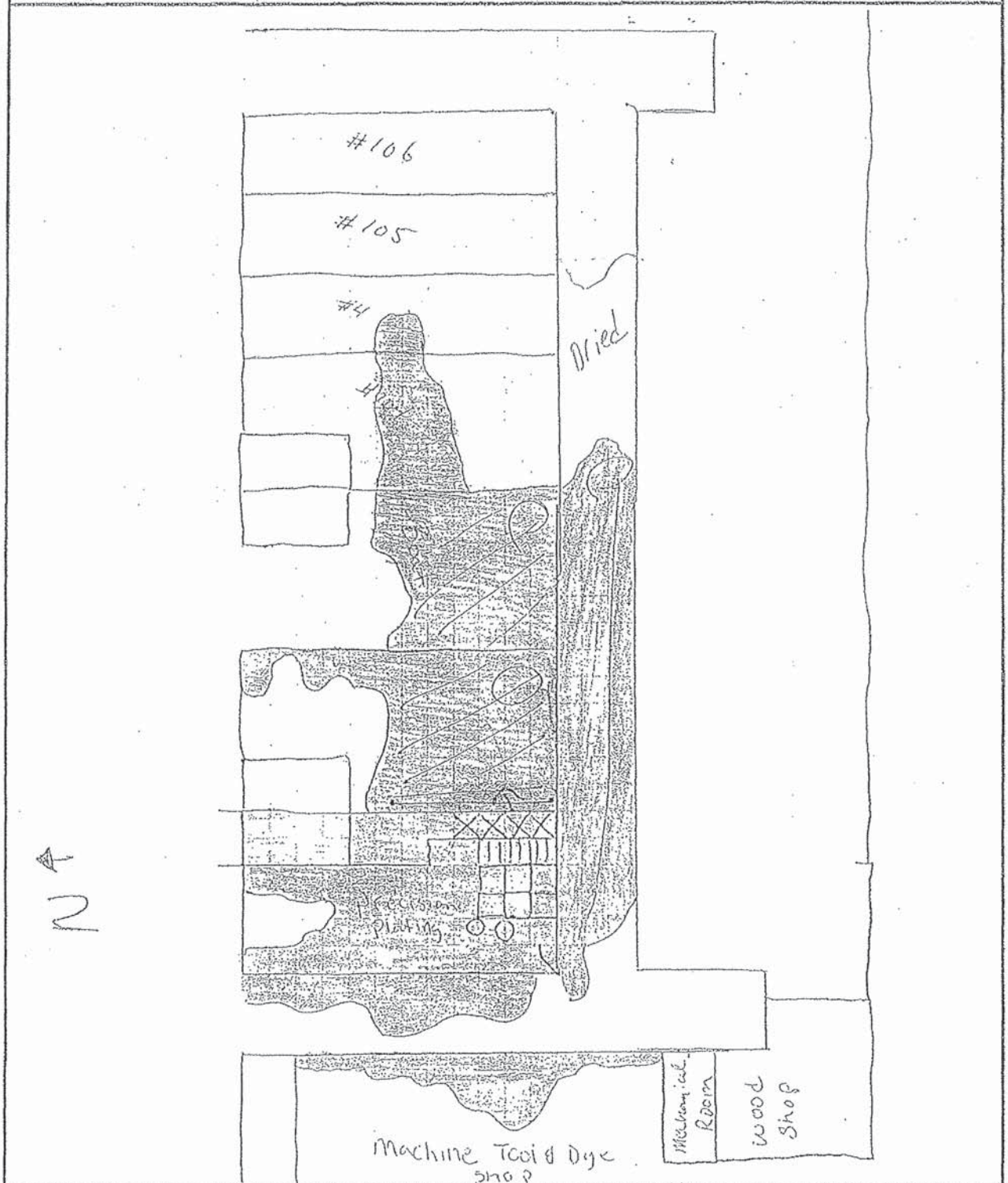
A CCS Company

Calculations
SUBJECT

By _____ Date _____ Project # _____

Checked _____ Date _____ Calculation # _____

Page _____ of _____



This fact sheet answers the most frequently asked health questions (FAQs) about chromium. For more information, call the ATSDR Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to chromium occurs from ingesting contaminated food or drinking water or breathing contaminated workplace air. Chromium(VI) at high levels can damage the nose and cause cancer. Ingesting high levels of chromium(VI) may result in anemia or damage to the stomach or intestines. Chromium(III) is an essential nutrient. Chromium has been found in at least 1,127 of the 1,669 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is chromium?

Chromium is a naturally occurring element found in rocks, animals, plants, and soil. It can exist in several different forms. Depending on the form it takes, it can be a liquid, solid, or gas. The most common forms are chromium(0), chromium(III), and chromium(VI). No taste or odor is associated with chromium compounds.

The metal chromium, which is the chromium(0) form, is used for making steel. Chromium(VI) and chromium(III) are used for chrome plating, dyes and pigments, leather tanning, and wood preserving.

What happens to chromium when it enters the environment?

- ☐ Chromium can be found in air, soil, and water after release from the manufacture, use, and disposal of chromium-based products, and during the manufacturing process.
- ☐ Chromium does not usually remain in the atmosphere, but is deposited into the soil and water.
- ☐ Chromium can easily change from one form to another in water and soil, depending on the conditions present.
- ☐ Fish do not accumulate much chromium in their bodies from water.

How might I be exposed to chromium?

- ☐ Eating food containing chromium(III).

- ☐ Breathing contaminated workplace air or skin contact during use in the workplace.
- ☐ Drinking contaminated well water.
- ☐ Living near uncontrolled hazardous waste sites containing chromium or industries that use chromium.

How can chromium affect my health?

Chromium(III) is an essential nutrient that helps the body use sugar, protein, and fat.

Breathing high levels of chromium(VI) can cause irritation to the lining of the nose, nose ulcers, runny nose, and breathing problems, such as asthma, cough, shortness of breath, or wheezing. The concentrations of chromium in air that can cause these effects may be different for different types of chromium compounds, with effects occurring at much lower concentrations for chromium(VI) compared to chromium(III).

The main health problems seen in animals following ingestion of chromium(VI) compounds are irritation and ulcers in the stomach and small intestine and anemia. Chromium(III) compounds are much less toxic and do not appear to cause these problems.

Sperm damage and damage to the male reproductive system have also been seen in laboratory animals exposed to chromium(VI).

ToxFAQs™ Internet address is <http://www.atsdr.cdc.gov/toxfaq.html>

Skin contact with certain chromium(VI) compounds can cause skin ulcers. Some people are extremely sensitive to chromium(VI) or chromium(III). Allergic reactions consisting of severe redness and swelling of the skin have been noted.

How likely is chromium to cause cancer?

The Department of Health and Human Services (DHHS), the International Agency for Research on Cancer (IARC), and the EPA have determined that chromium(VI) compounds are known human carcinogens. In workers, inhalation of chromium(VI) has been shown to cause lung cancer. Chromium(VI) also causes lung cancer in animals. An increase in stomach tumors was observed in humans and animals exposed to chromium(VI) in drinking water.

How can chromium affect children?

It is likely that health effects seen in children exposed to high amounts of chromium will be similar to the effects seen in adults.

We do not know if exposure to chromium will result in birth defects or other developmental effects in people. Some developmental effects have been observed in animals exposed to chromium(VI).

How can families reduce the risks of exposure to chromium?

- ☐ Children should avoid playing in soils near uncontrolled hazardous waste sites where chromium may have been discarded.
- ☐ Chromium is a component of tobacco smoke. Avoid smoking in enclosed spaces like inside the home or car in order to limit exposure to children and other family members.
- ☐ Although chromium(III) is an essential nutrient, you should avoid excessive use of dietary supplements containing chromium.

Is there a medical test to determine whether I've been exposed to chromium?

Since chromium(III) is an essential element and naturally occurs in food, there will always be some level of chromium in your body. Chromium can be measured in hair, urine, and blood.

Higher than normal levels of chromium in blood or urine may indicate that a person has been exposed to chromium. However, increases in blood and urine chromium levels cannot be used to predict the kind of health effects that might develop from that exposure.

Has the federal government made recommendations to protect human health?

The EPA has determined that exposure to chromium in drinking water at concentrations of 1 mg/L for up to 10 days is not expected to cause any adverse effects in a child.

The FDA has determined that the chromium concentration in bottled drinking water should not exceed 1 mg/L.

The Occupational Health and Safety Administration (OSHA) has limited workers' exposure to an average of 0.0005 mg/m³ chromium(VI), 0.5 mg/m³ chromium(III), and 1.0 mg/m³ chromium(0) for an 8-hour workday, 40-hour workweek.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2008. Toxicological Profile for Chromium (Draft for Public Comment). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information? For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Environmental Medicine, 1600 Clifton Road NE, Mailstop F-32, Atlanta, GA 30333. Phone: 1-800-232-4636, FAX: 770-488-4178. ToxFAQs Internet address via WWW is <http://www.atsdr.cdc.gov/toxfaq.html>. ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.



Riedler, Harold ENV:EX

From: Barton, Shawn [SBarton@hazco.com]
Sent: Wednesday, April 20, 2011 1:32 PM
To: Riedler, Harold ENV:EX
Cc: s.22
Subject: Fw: 2D-4300-134 Precision Plating wash water
Attachments: R104161 FINAL Apr 19 11 0815.pdf; R104161 FINAL SxAnalytePivot 19 Apr 11 0815.xls; HAZCO WTP Water Discharge Criteria.xls

Hazco is releasing this data on neutralized effluent collected from the site at 13045 84th Ave to MOE to assist in your evaluations of potential safety precautions that responding public agencies will imminently need to address for work planned today.

Please note that site observations point to the fact that this data may not be representative of remaining effluent materials still held within the building, as our crews have observed mixing of as yet unknown compounds in this area.

Hazco has no issues with release of this information to all public sector agencies however we are not releasing this data to the site owners at this time, as it remains the property of Hazco for the foreseeable future.

Should you have any questions, please feel free to contact me at anytime.

Regards,

Shawn Barton, RSO | Project Manager, Emergency Response and Confined Space Entry
HAZCO Environmental Services, A CCS Company
13511 Vulcan Way,
Richmond, BC V6V-1K4

604.214.7000?? Office

s.22

604.214.7017??

Fax

SBarton@hazco.com

www.hazco.com

From: Dickson, Mike
To: Barton, Shawn
Cc: Chau, Daniel
Sent: Tue Apr 19 10:27:19 2011
Subject: 2D-4300-134 Precision Plating wash water

Regards,

Michael Dickson | Operations Coordinator
HAZCO Environmental Services, A CCS Company
13511 Vulcan Way
Richmond, BC V6V 1K4

604-214-7000 Direct

s.22

604-214-7017 Fax

mdickson@hazco.com

www.hazco.com

copies
immediately.

CCS Corporation and its subsidiaries do not accept liability for the views expressed in the email or for the consequences of any malicious code that may be transmitted with this email.

This email is also subject to copyright. No part of it should be reproduced, adapted or transmitted without the written consent of the copyright owner.

CCS-06-01-2009

Pages 280 through 290 redacted for the following reasons:

s.21

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 4:54 PM
To: 'Alfmarchi@paragonrealty.ca'
Subject: Precision Plating - Agency email contacts

Our file: DGIR110134

Hello, Alf.

Please ensure that representatives noted under "Contacts" are included in receiving the following information:

1. a copy of the Hygienist's report monitoring report, and
2. the information letter that the property management company will communicate to owners and occupants of Strata Plan MLS 4521, providing notification of hazards within building 13045 – 84th Avenue, Surrey that includes rational to keep unit owners and business occupants safe and out of the impacted building.

Contacts

Kevin Li, Environmental Health Services, Fraser Health Authority, phone: 604-587-7648, email: kevinli@fraserhealth.ca

- Andrew McSherry, Occupational Safety Officer, Worksafe BC, phone: 604-214-4864 or call centre 604-276-3100 (insist on paging Andrew for return call), email: Andrew.mcsherry@worksafebc.com
- Captain Fred Berg, Fire Prevention Division, Surrey Fire Department, phone: 604-543-6763, email: fnberg@surrey.ca
- Captain Marc Berube, Fire Prevention Division, Surrey Fire Department, phone: 604-543-6761, email: mdberube@surrey.ca
- The undersigned as outlined below

Harold Riedler

*Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca*

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 5:17 PM
To: 'Barton, Shawn'
Subject: RE: 2D-4300-134 Precision Plating wash water

Thank you for your company's commitment in response to the subject spill incident. All agencies involved in this response are well aware of your professional and client service oriented approach. Certainly, the excellent support that you have provided for our response organization is well documented, appreciated and communicated to other parties in need of emergency response services.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Barton, Shawn [<mailto:SBarton@hazco.com>]
Sent: Wednesday, April 20, 2011 1:32 PM
To: Riedler, Harold ENV:EX
Cc: s.22
Subject: Fw: 2D-4300-134 Precision Plating wash water

Hazco is releasing this data on neutralized effluent collected from the site at 13045 84th Ave to MOE to assist in your evaluations of potential safety precautions that responding public agencies will imminently need to address for work planned today.

Please note that site observations point to the fact that this data may not be representative of remaining effluent materials still held within the building, as our crews have observed mixing of as yet unknown compounds in this area.

Hazco has no issues with release of this information to all public sector agencies however we are not releasing this data to the site owners at this time, as it remains the property of Hazco for the foreseeable future.

Should you have any questions, please feel free to contact me at anytime.

Regards,

Shawn Barton, RSO | Project Manager, Emergency Response and Confined Space Entry
HAZCO Environmental Services, A CCS Company
13511 Vulcan Way,
Richmond, BC V6V-1K4

604.214.7000?? Office

s.22

604.214.7017??

Fax

SBarton@hazco.com

www.hazco.com

From: Dickson, Mike
To: Barton, Shawn
Cc: Chau, Daniel
Sent: Tue Apr 19 10:27:19 2011
Subject: 2D-4300-134 Precision Plating wash water

Regards,

Michael Dickson | Operations Coordinator
HAZCO Environmental Services, A CCS Company
13511 Vulcan Way
Richmond, BC V6V 1K4

604-214-7000 Direct

s.22

604-214-7017 Fax
mdickson@hazco.com

www.hazco.com

This email and any files transmitted with it are solely intended for the use of the addressee(s) and may contain information that is confidential and privileged. If you receive this email in error, please advise us by return email immediately. Please also disregard the contents of the email, delete it and destroy any copies immediately.

CCS Corporation and its subsidiaries do not accept liability for the views expressed in the email or for the consequences of any malicious code that may be transmitted with this email.

This email is also subject to copyright. No part of it should be reproduced, adapted or transmitted without the written consent of the copyright owner.

CCS-06-01-2009

Riedler, Harold ENV:EX

From: Alf Marchi [alfmarchi@paragonrealty.ca]
Sent: Wednesday, April 20, 2011 5:50 PM
To: kevinli@fraserhealth.ca; McSherry, Andrew WCB:EX; fnberg@surrey.ca; fnberg@surrey.ca
Cc: Riedler, Harold ENV:EX
Subject: FW: Precision Plating - Agency email contacts
Attachments: 11952 L02 Canstar Clearance Report, Final.pdf

Hello Kevin and Andrew,

I'm the Property Manager for The Owners, Strata Plan LMS 4521, also known as Golden Gate Industrial Park. I believe that both of you are aware of the situation at Golden Gate. Attached is a copy of a report from Pacific Environmental Consultants on the level of contamination in the various units in the affected building. Based upon the contents of this report are both of you prepared to permit access to units 107, 108, 109, 110, 111, 112, 119 and 120? And, if so, under what conditions or restrictions? I have a scheduled meeting, tomorrow at 4:00 p.m., with the owners of the affected building and I would like to provide them a status report. Can you please provide an answer prior to that time?

Thanks,

Alfred A. Marchi

Office: 604-576-3868

Fax: 604-576-3813



From: Riedler, Harold ENV:EX [mailto:Harold.Riedler@gov.bc.ca]
Sent: April-20-11 4:54 PM
To: 'Alfmarchi@paragonrealty.ca'
Subject: Precision Plating - Agency email contacts

Our file: DGIR110134

Hello, Alf.

Please ensure that representatives noted under "Contacts" are included in receiving the following information:

1. a copy of the Hygienist's report monitoring report, and
2. the information letter that the property management company will communicate to owners and occupants of Strata Plan MLS 4521, providing notification of hazards within building 13045 – 84th Avenue, Surrey that includes rational to keep unit owners and business occupants safe and out of the impacted building.

Contacts

Kevin Li, Environmental Health Services, Fraser Health Authority, phone: 604-587-7648, email: kevinli@fraserhealth.ca

- Andrew McSherry, Occupational Safety Officer, Worksafe BC, phone: 604-214-4864 or call centre 604-276-3100 (insist on paging Andrew for return call), email: Andrew.mcsherry@worksafebc.com
- Captain Fred Berg, Fire Prevention Division, Surrey Fire Department, phone: 604-543-6763, email: fnberg@surrey.ca
- Captain Marc Berube, Fire Prevention Division, Surrey Fire Department, phone: 604-543-6761, email: mdberube@surrey.ca
- The undersigned as outlined below

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

No virus found in this message.

Checked by AVG - www.avg.com

Version: 10.0.1209 / Virus Database: 1500/3585 - Release Date: 04/20/11

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 7:17 PM
To: Knox, Graham ENV:EX
Cc: Fuller, Ryan ENV:EX
Subject: Code 2. Precision Plating Spill - Update April 20, 2011

Graham, the following is what I prepared as an update to PAB and the executive. Contact me if you have any questions in this regard. Please let me know if this meets your approval to serve as an update to PEP. Thank you.

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill.

- MLAs Sue Hammell and Harry Bains attended the 3:00 PM meeting on April 19, 2011 with agency representatives, contractors, and temporarily displaced strata owners/ business occupants to provide their assistance to expedite remedial measures and resumption of business.
 - A larger group of displaced business representatives were present at this informative meeting.
 - Communication between the strata property management and strata owners/occupants was strengthened.
 - Insurance company representatives advised that they will not provide money to the impacted strata unit clients until the cause of the fire and chemical spill has been determined.
 - Strata business owners committed to funding some clean-up work that will allow safe entry and investigation by the fire department (FD) and insurance companies.
 - The fire/chemical spill investigations were planned to commence on April 21, 2011 to determine cause, insurable coverage and the subsequent extent of financial assistance from insurance.
- An agency meeting was held at the #1 Fire Hall in Surrey on April 20, 2011 at 11:00 AM with the Precision Plating Ltd. owner present.
 - The FD advised that they are offering funds to allow remedial work to provide safe access and investigation of the fire and chemical spill location.
 - The FD agreed to take over security and control of activities within the evacuation zone from MoE during the course of the fire investigation.
 - The impacted strata owners have arranged for an earlier start for work that will begin at approximately 1:30 PM April 20th, to secure access for FD and Insurance investigators.
 - MoE Environmental Emergency Response Officer (EERO) will meet with Worksafe BC at 9:00 AM, April 21, 2011 to plan transitioning work site control and monitoring from MoE to Worksafe BC and the property management company.
 - EERO expects to rescind the MoE tactical evacuation on April 21st, pending acquiring an agreement with the FD, Worksafe BC and the property management company that will maintain site control, pollution prevention, and safety of business owners/occupants and employees.
- The impacted strata unit owners generally understand that it is a strata council's responsibility to develop a reoccupancy plan with assistance from their property management company & contractors and in consultation with government agencies with jurisdiction.
- A final update is planned for the afternoon of April 21st, 2011, when the MoE EERO anticipates rescinding the tactical evacuation, relinquishing site control to the property management company, Worksafe BC and the FD.

Thank you,

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

MOE-2011-00159
Page 296

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 7:35 PM
To: ENV IEmergency Incident Contacts
Cc: SG PEP ECC1 SG:EX; Fuller, Ryan ENV:EX
Subject: FW: Code 2. Precision Plating Spill - Update April 20, 2011

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill.

- MLAs Sue Hammell and Harry Bains attended the 3:00 PM meeting on April 19, 2011 with agency representatives, contractors, and temporarily displaced strata owners/ business occupants to provide their assistance to expedite remedial measures and resumption of business.
 - A larger group of displaced business representatives were present at this informative meeting.
 - Communication between the strata property management and strata owners/occupants was strengthened.
 - Insurance company representatives advised that they will not provide money to the impacted strata unit clients until the cause of the fire and chemical spill has been determined.
 - Strata business owners committed to funding some clean-up work that will allow safe entry and investigation by the fire department (FD) and insurance companies.
 - The fire/chemical spill investigations were planned to commence on April 21, 2011 to determine cause, insurable coverage and the subsequent extent of financial assistance from insurance.
- An agency meeting was held at the #1 Fire Hall in Surrey on April 20, 2011 at 11:00 AM with the Precision Plating Ltd. owner present.
 - The FD advised that they are offering funds to allow remedial work to provide safe access and investigation of the fire and chemical spill location.
 - The FD agreed to take over security and control of activities within the evacuation zone from MoE during the course of the fire investigation.
 - The impacted strata owners have arranged for an earlier start for work that will begin at approximately 1:30 PM April 20th, to secure access for FD and Insurance investigators.
 - MoE Environmental Emergency Response Officer (EERO) will meet with Worksafe BC at 9:00 AM, April 21, 2011 to plan transitioning work site control and monitoring from MoE to Worksafe BC and the property management company.
 - EERO expects to rescind the MoE tactical evacuation on April 21st, pending acquiring an agreement with the FD, Worksafe BC and the property management company that will maintain site control, pollution prevention, and safety of business owners/occupants and employees.
- The impacted strata unit owners generally understand that it is a strata council's responsibility to develop a reoccupancy plan with assistance from their property management company & contractors and in consultation with government agencies with jurisdiction.
- A final update is planned for the afternoon of April 21st, 2011, when the MoE EERO anticipates rescinding the tactical evacuation, relinquishing site control to the property management company, Worksafe BC and the FD.

Thank you,

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 8:02 PM
To: 'gwickstrom@keystoneenviro.com'
Subject: Precision Plating - Some photos showing external cleanup
Attachments: IMGP0156.JPG; IMGP0165.JPG; IMGP0169.JPG; IMGP0183.JPG

FYI.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca









s.22

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 8:08 PM
To: 'gwickstrom@keystoneenviro.com'
Subject: FW: Precision Plating - Another Photo
Attachments: IMGP0182.JPG

FYI.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca



Riedler, Harold ENV:EX

From: Hofweber, Jim E ENV:EX
Sent: Wednesday, April 20, 2011 8:18 PM
To: Riedler, Harold ENV:EX
Subject: Re: Code 2. Precision Plating Spill - Update April 20, 2011

Thx Harold. Good work.

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 07:35 PM
To: ENV !Emergency Incident Contacts
Cc: SG PEP ECC1 SG:EX; Fuller, Ryan ENV:EX
Subject: FW: Code 2. Precision Plating Spill - Update April 20, 2011

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill.

- MLAs Sue Hammell and Harry Bains attended the 3:00 PM meeting on April 19, 2011 with agency representatives, contractors, and temporarily displaced strata owners/ business occupants to provide their assistance to expedite remedial measures and resumption of business.
 - A larger group of displaced business representatives were present at this informative meeting.
 - Communication between the strata property management and strata owners/occupants was strengthened.
 - Insurance company representatives advised that they will not provide money to the impacted strata unit clients until the cause of the fire and chemical spill has been determined.
 - Strata business owners committed to funding some clean-up work that will allow safe entry and investigation by the fire department (FD) and insurance companies.
 - The fire/chemical spill investigations were planned to commence on April 21, 2011 to determine cause, insurable coverage and the subsequent extent of financial assistance from insurance.
- An agency meeting was held at the #1 Fire Hall in Surrey on April 20, 2011 at 11:00 AM with the Precision Plating Ltd. owner present.
 - The FD advised that they are offering funds to allow remedial work to provide safe access and investigation of the fire and chemical spill location.
 - The FD agreed to take over security and control of activities within the evacuation zone from MoE during the course of the fire investigation.
 - The impacted strata owners have arranged for an earlier start for work that will begin at approximately 1:30 PM April 20th, to secure access for FD and Insurance investigators.
 - MoE Environmental Emergency Response Officer (EERO) will meet with Worksafe BC at 9:00 AM, April 21, 2011 to plan transitioning work site control and monitoring from MoE to Worksafe BC and the property management company.
 - EERO expects to rescind the MoE tactical evacuation on April 21st, pending acquiring an agreement with the FD, Worksafe BC and the property management company that will maintain site control, pollution prevention, and safety of business owners/occupants and employees.
- The impacted strata unit owners generally understand that it is a strata council's responsibility to develop a reoccupancy plan with assistance from their property management company & contractors and in consultation with government agencies with jurisdiction.
- A final update is planned for the afternoon of April 21st, 2011, when the MoE EERO anticipates rescinding the tactical evacuation, relinquishing site control to the property management company, Worksafe BC and the FD.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Fuller, Ryan ENV:EX

From: Guercio, Anna ENV:EX
Sent: Thursday, April 21, 2011 10:55 AM
To: Fuller, Ryan ENV:EX
Subject: RE: BC Property Searches



Paragon
Realty,.pdf



Precision
Plating,.pdf

I'm still working on the Stata Plan

Anna;-)

From: Fuller, Ryan ENV:EX
Sent: Thursday, April 21, 2011 10:37 AM
To: Guercio, Anna ENV:EX
Subject: BC Property Searches

Hi Anna,

Could you do me a favour and search the following properties please. Harold and I are working on an Order. The Property addresses are:

The Owners, Strata plan MLS 4521, 13045 84th Ave, Surrey, BC
Precision Plating, Unit 101 13045 84th Ave, Surrey BC
Paragon Realty, Unit 101 5550 152nd Street Surrey, BC

Thanks a bunch!

Ryan Fuller
Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5245
ryan.fuller@gov.bc.ca

Pages 308 through 311 redacted for the following reasons:

S.20

Fuller, Ryan ENV:EX

From: Guercio, Anna ENV:EX
Sent: Thursday, April 21, 2011 11:23 AM
To: Fuller, Ryan ENV:EX
Subject: FW: LMS 4521

From: Alamanos, Marilyn FIN:EX
Sent: Thursday, April 21, 2011 11:21 AM
To: Guercio, Anna ENV:EX
Subject: LMS 4521

Hi Anna,

Below is the list of developers for the above-noted development property:

- Golden View Development Corporation
- Western Natural Gas Products Ltd.
- Pangalia, Iqbal Tom
- Teg Developments Ltd.
- Thind, Darshan Singh
- Torbram Electric Supply Corporation
- Merit Technology Inc.
- Kansal, Alok

I hope this is helpful.

Regards,

Marilyn Alamanos
Contact Centre
Financial Institutions Commission, British Columbia
Phone #: 604 953-5204
Fax #: 604 953-5301
E-mail: Marilyn.Alamanos@ficombc.ca

Unless otherwise agreed expressly in writing by the author, this communication is to be treated as confidential and the information in it may not be used or disclosed except for the purpose for which it has been sent. It is intended only for the use of the person to whom it is addressed. Any distribution, copying or use by anyone else is strictly prohibited. If you have received this e-mail in error, please telephone me immediately and destroy this e-mail.

Riedler, Harold ENV:EX

From: Caviglia, Jon [JTCaviglia@surrey.ca]
Sent: Thursday, April 21, 2011 2:07 PM
To: Lau, Geoffrey WCB:EX; Riedler, Harold ENV:EX; McSherry, Andrew WCB:EX
Subject: 13045 - 84 ave April 21.docx
Attachments: 13045 - 84 ave April 21.docx

Draft letter is attached please review and provide your comments if you feel there is anything we should add.

Thanks

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

April 21, 2011

Alf Marchi
Paragon Realty
#101, 5550 – 152 St
Surrey BC V3S 5J9

Alf,

Re: 13045 – 84 Ave hazard mitigation and cleanup.

This is in response to our previous meetings that have occurred over the past few days in relation to the hazards that currently exist in numerous strata units at 13045 – 84 Avenue.

The purpose of this letter is to confirm your commitment and willingness to assist in an action plan to reopen the businesses in a safe and expedite manner.

Acting as the Property Management Company responsible for the above strata units you agreed to inform all the strata owners of 13045 – 84 avenue of the occupational hygienist report received on April 20, 2011 and the associated hazards of occupying their businesses.

Furthermore we are informing you that once the chemicals in Unit #101 have been deemed to be removed or secured in a safe manner you will be responsible for maintaining the security of the building until it has been deemed safe to occupy.

Sincerely

Jon Caviglia

Riedler, Harold ENV:EX

From: Lau, Geoffrey [Geoffrey.Lau@worksafebc.com]
Sent: Thursday, April 21, 2011 2:19 PM
To: Caviglia, Jon; Riedler, Harold ENV:EX; McSherry, Andrew WCB:EX
Cc: Lau, Geoffrey WCB:EX
Subject: RE: 13045 - 84 ave April 21.docx

Hi Jon,

s.13

Regards,
Geoff Lau, BSc, MEng, CIH
Occupational Hygiene Officer
Prevention-Surrey, WorksafeBC
T:604-214-4883 / F:604-232-7077
E:geoffrey.lau@worksafebc.com

From: Caviglia, Jon [mailto:JTCaviglia@surrey.ca]
Sent: Thursday, April 21, 2011 2:07 PM
To: Lau, Geoffrey; harold.riedler@gov.bc.ca; McSherry, Andrew
Subject: 13045 - 84 ave April 21.docx

Draft letter is attached please review and provide your comments if you feel there is anything we should add.

Thanks

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

Follow us on Twitter, Facebook, YouTube, or one of our many social networks:
http://www.worksafebc.com/news_room/SocialNetworks/default.asp

CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

From: Riedler, Harold ENV:EX
Sent: Thursday, April 21, 2011 9:09 PM
To: Knox, Graham ENV:EX
Cc: Fuller, Ryan ENV:EX
Subject: Code 2. Precision Plating Spill - Update April 21, 2011, 7:00 PM.

Graham, please review the following and pass-on to PAB and the executive if it meets your expectation. I don't think PEP needs to receive this update. Thank you.

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill.

- April 21, 2011, 9:00 AM, MoE Environmental Emergency Response Officer (EERO) attended a meeting with Worksafe BC and Surrey Fire Department (FD) to gain a current status of the response and determine when to transition agency oversight and control over the 13045 – 84th Avenue evacuation zone from MoE to FD and Worksafe BC.
 - Precision Plating Ltd. retained a hazardous materials contractor to conduct clean-up on April 20, 2011 to allow safe access for the FD and insurance investigators to complete their fire investigation within the heavily contaminated Precision Plating unit 101.
 - Worksafe BC found the hazardous materials contractor unqualified and unprepared to conduct the required hazardous materials work in a safe manner and denied the contractor any entry to the unit.
 - FD Hazmat was called in and prepared safe access to allow the FD and insurance fire investigations to proceed and it appears the investigators' site information needs were satisfied.
 - It was agreed that the FD Hazmat crew will conduct a thorough inspection of Unit 101 in the afternoon of April 21st to gather further information of the chemical storage and state of chemical containment.
 - FD will provide a report on April 22nd to the EERO after they consult and verify information with the Unit 101 business operator to determine whether a hazard exists that may result in chemical reaction or mass release from fire damaged containment and discharge to the environment.
 - If the report finds a stable condition, MoE will rescind the evacuation and transfer regulatory oversight and control to the FD, Worksafe BC and the property management company.
 - Fire watch and security is being maintained.
- April 21, 2011, 4:00 PM, a meeting was attended by FD, the property management company, MoE EERO and concerned strata owners and strata council members to provide an update on the regulatory and property management company response.
 - Strata owners advised that they and their employees are experiencing extreme hardship and are not seeing any chance of reoccupation in time to save their businesses.
 - Two strata owners presented questions to the EERO challenging the evacuation, despite risking their personal health.
 - The certified hygienist report that included the risks associated with contamination found within the evacuated strata building (written in laymen's terms) was provided by the property manager to each of the attending strata owner/business members. Remaining members that were not in attendance will also receive the report from the property management company.
 - It was suggested that the strata council arrange for a direct meeting with the hygienist that authored the report to address any further questions that they may have in regard to the extent of contamination in their effected units.
 - The meeting re-enforced the agencies' suggestion that strata owners communicate with their strata council and allow their property management company to assist in finding a resolution.

- April 21, 2011, 5:30 PM, FD Hazmat arrived and the hazmat crew conducted an inspection of Unit 101.
 - Photos, schematics and observations were obtained to be reviewed with the Unit 101 business owner before finalizing the report for review by the EERO on April 22, 2011.
 - Should the final report find a stable condition within Unit 101, the EERO will rescind the MoE evacuation and ensure a continuance in agency oversight that have continuing jurisdiction.
 - The incident will then be downgraded to Code 1.
 - MoE will continue to follow-up in regard to evaluating the impact to the receiving environment and monitoring compliance with respect to provincial hazardous waste management and disposal legislation.

Thank you,

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Knox, Graham ENV:EX
Sent: Wednesday, April 20, 2011 7:25 PM
To: Riedler, Harold ENV:EX
Subject: Re: Code 2. Precision Plating Spill - Update April 20, 2011

Looks great Harold please proceed!

Thanks,

Graham

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 07:16 PM
To: Knox, Graham ENV:EX
Cc: Fuller, Ryan ENV:EX
Subject: Code 2. Precision Plating Spill - Update April 20, 2011

Graham, the following is what I prepared as an update to PAB and the executive. Contact me if you have any questions in this regard. Please let me know if this meets your approval to serve as an update to PEP. Thank you.

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill.

- MLAs Sue Hammell and Harry Bains attended the 3:00 PM meeting on April 19, 2011 with agency representatives, contractors, and temporarily displaced strata owners/ business occupants to provide their assistance to expedite remedial measures and resumption of business.
 - A larger group of displaced business representatives were present at this informative meeting.
 - Communication between the strata property management and strata owners/occupants was strengthened.
 - Insurance company representatives advised that they will not provide money to the impacted strata unit clients until the cause of the fire and chemical spill has been determined.
 - Strata business owners committed to funding some clean-up work that will allow safe entry and investigation by the fire department (FD) and insurance companies.
 - The fire/chemical spill investigations were planned to commence on April 21, 2011 to determine cause, insurable coverage and the subsequent extent of financial assistance from insurance.
- An agency meeting was held at the #1 Fire Hall in Surrey on April 20, 2011 at 11:00 AM with the Precision Plating Ltd. owner present.
 - The FD advised that they are offering funds to allow remedial work to provide safe access and investigation of the fire and chemical spill location.
 - The FD agreed to take over security and control of activities within the evacuation zone from MoE during the course of the fire investigation.
 - The impacted strata owners have arranged for an earlier start for work that will begin at approximately 1:30 PM April 20th, to secure access for FD and Insurance investigators.
 - MoE Environmental Emergency Response Officer (EERO) will meet with Worksafe BC at 9:00 AM, April 21, 2011 to plan transitioning work site control and monitoring from MoE to Worksafe BC and the property management company.
 - EERO expects to rescind the MoE tactical evacuation on April 21st, pending acquiring an agreement with the FD, Worksafe BC and the property management company that will maintain site control, pollution prevention, and safety of business owners/occupants and employees.

reoccupancy plan with assistance from their property management company & contractors and in consultation with government agencies with jurisdiction.

- A final update is planned for the afternoon of April 21st, 2011, when the MoE EERO anticipates rescinding the tactical evacuation, relinquishing site control to the property management company, Worksafe BC and the FD.

Thank you,

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Knox, Graham ENV:EX
Sent: Thursday, April 21, 2011 9:26 PM
To: ENV !Emergency Incident Contacts; Wagner, Rick S ENV:EX
Subject: Code 2. Precision Plating Spill, Surrey- Update April 21, 2011, @ 9:30 PM

Importance: High

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill in Surrey:

- April 21, 2011, 9:00 AM, MoE Environmental Emergency Response Officer (EERO) attended a meeting with Worksafe BC and Surrey Fire Department (FD) to gain a current status of the response and determine when to transition agency oversight and control over the 13045 – 84th Avenue evacuation zone from MoE to FD and Worksafe BC.
 - Precision Plating Ltd. retained a hazardous materials contractor to conduct clean-up on April 20, 2011 to allow safe access for the FD and insurance investigators to complete their fire investigation within the heavily contaminated Precision Plating unit 101.
 - Worksafe BC found the hazardous materials contractor unqualified and unprepared to conduct the required hazardous materials work in a safe manner and denied the contractor any entry to the unit.
 - FD Hazmat was called in and prepared safe access to allow the FD and insurance fire investigations to proceed and it appears the investigators' site information needs were satisfied.
 - It was agreed that the FD Hazmat crew will conduct a thorough inspection of Unit 101 in the afternoon of April 21st to gather further information of the chemical storage and state of chemical containment.
 - FD will provide a report on April 22nd to the EERO after they consult and verify information with the Unit 101 business operator to determine whether a hazard exists that may result in chemical reaction or mass release from fire damaged containment and discharge to the environment.
 - If the report finds a stable condition, MoE will rescind the tactical evacuation and transfer regulatory oversight and control to the FD, Worksafe BC and the property management company.
 - Fire watch and security is being maintained.
- April 21, 2011, 4:00 PM, a meeting was attended by FD, the property management company, MoE EERO and concerned strata owners and strata council members to provide an update on the regulatory and property management company response.
 - Strata owners advised that they and their employees are experiencing extreme hardship and are not seeing any chance of reoccupation in time to save their businesses.
 - Two strata owners presented questions to the EERO challenging the evacuation, despite risking their personal health.
 - The certified hygienist report that included the risks associated with contamination found within the evacuated strata building (written in laymen's terms) was provided by the property manager to each of the attending strata owner/business members. Remaining members that were not in attendance will also receive the report from the property management company.
 - It was suggested that the strata council arrange for a direct meeting with the hygienist that authored the report to address any further questions that they may have in regard to the extent of contamination in their effected units.
 - The meeting re-enforced the agencies' suggestion that strata owners communicate with their strata council and allow their property management company to assist in finding a resolution.
- April 21, 2011, 5:30 PM, FD Hazmat arrived and the hazmat crew conducted an inspection of Unit 101.

- Photos, schematics and observations were obtained to be reviewed with the Unit 101 business owner before finalizing the report for review by the EERO on April 22, 2011.
- Should the final report find a stable condition within Unit 101, the EERO will rescind the MoE tactical evacuation and ensure a continuance in agency oversight that have continuing jurisdiction.
- The incident will then be downgraded to Code 1.
- MoE will continue to follow-up in regard to evaluating the impact to the receiving environment and monitoring compliance with respect to provincial hazardous waste management and disposal legislation.

Thank you,

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Friday, April 22, 2011 2:04 PM
To: Wagner, Rick S ENV:EX
Subject: Fw: Code 2. Precision Plating Spill, Surrey- Update April 21, 2011, @ 9:30 PM

Importance: High

Fyi. Harold.

From: Knox, Graham ENV:EX
Sent: Thursday, April 21, 2011 09:26 PM
To: ENV !Emergency Incident Contacts; Wagner, Rick S ENV:EX
Subject: Code 2. Precision Plating Spill, Surrey- Update April 21, 2011, @ 9:30 PM

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill in Surrey:

- April 21, 2011, 9:00 AM, MoE Environmental Emergency Response Officer (EERO) attended a meeting with Worksafe BC and Surrey Fire Department (FD) to gain a current status of the response and determine when to transition agency oversight and control over the 13045 – 84th Avenue evacuation zone from MoE to FD and Worksafe BC.
 - Precision Plating Ltd. retained a hazardous materials contractor to conduct clean-up on April 20, 2011 to allow safe access for the FD and insurance investigators to complete their fire investigation within the heavily contaminated Precision Plating unit 101.
 - Worksafe BC found the hazardous materials contractor unqualified and unprepared to conduct the required hazardous materials work in a safe manner and denied the contractor any entry to the unit.
 - FD Hazmat was called in and prepared safe access to allow the FD and insurance fire investigations to proceed and it appears the investigators' site information needs were satisfied.
 - It was agreed that the FD Hazmat crew will conduct a thorough inspection of Unit 101 in the afternoon of April 21st to gather further information of the chemical storage and state of chemical containment.
 - FD will provide a report on April 22nd to the EERO after they consult and verify information with the Unit 101 business operator to determine whether a hazard exists that may result in chemical reaction or mass release from fire damaged containment and discharge to the environment.
 - If the report finds a stable condition, MoE will rescind the tactical evacuation and transfer regulatory oversight and control to the FD, Worksafe BC and the property management company.
 - Fire watch and security is being maintained.
- April 21, 2011, 4:00 PM, a meeting was attended by FD, the property management company, MoE EERO and concerned strata owners and strata council members to provide an update on the regulatory and property management company response.
 - Strata owners advised that they and their employees are experiencing extreme hardship and are not seeing any chance of reoccupation in time to save their businesses.
 - Two strata owners presented questions to the EERO challenging the evacuation, despite risking their personal health.
 - The certified hygienist report that included the risks associated with contamination found within the evacuated strata building (written in laymen's terms) was provided by the property manager to each of the attending strata owner/business members. Remaining members that were not in attendance will also receive the report from the property management company.

- It was suggested that the strata council arrange for a direct meeting with the hygienist that authored the report to address any further questions that they may have in regard to the extent of contamination in their effected units.
- The meeting re-enforced the agencies' suggestion that strata owners communicate with their strata council and allow their property management company to assist in finding a resolution.
- April 21, 2011, 5:30 PM, FD Hazmat arrived and the hazmat crew conducted an inspection of Unit 101.
 - Photos, schematics and observations were obtained to be reviewed with the Unit 101 business owner before finalizing the report for review by the EERO on April 22, 2011.
 - Should the final report find a stable condition within Unit 101, the EERO will rescind the MoE tactical evacuation and ensure a continuance in agency oversight that have continuing jurisdiction.
 - The incident will then be downgraded to Code 1.
 - MoE will continue to follow-up in regard to evaluating the impact to the receiving environment and monitoring compliance with respect to provincial hazardous waste management and disposal legislation.

Thank you,

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Friday, April 22, 2011 2:38 PM
To: Wagner, Rick S ENV:EX
Subject: Fw: Code 2. Precision Plating Spill - Update April 20, 2011

An older update fyi just providing some more background. Note that contrary to what is said in this update, our tactical evacuation is still in effect and may likely be rescinded by me when I receive Surrey Fire Department's inspection report that will hopefully disclose a stable condition within the Precision Plating Unit #101. I will monitor my emails and phone messages and will share this report with you to keep you informed so that if anything with this site warrants another emergency update from PEP, you are able to respond on our behalf, if required. I will be S22 and will check messages every 3 hours or so where I know that I have reception. Thank you Rick. Harold.

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 20, 2011 07:35 PM
To: ENV !Emergency Incident Contacts
Cc: SG PEP ECC1 SG:EX; Fuller, Ryan ENV:EX
Subject: FW: Code 2. Precision Plating Spill - Update April 20, 2011

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill.

- MLAs Sue Hammell and Harry Bains attended the 3:00 PM meeting on April 19, 2011 with agency representatives, contractors, and temporarily displaced strata owners/ business occupants to provide their assistance to expedite remedial measures and resumption of business.
 - A larger group of displaced business representatives were present at this informative meeting.
 - Communication between the strata property management and strata owners/occupants was strengthened.
 - Insurance company representatives advised that they will not provide money to the impacted strata unit clients until the cause of the fire and chemical spill has been determined.
 - Strata business owners committed to funding some clean-up work that will allow safe entry and investigation by the fire department (FD) and insurance companies.
 - The fire/chemical spill investigations were planned to commence on April 21, 2011 to determine cause, insurable coverage and the subsequent extent of financial assistance from insurance.
- An agency meeting was held at the #1 Fire Hall in Surrey on April 20, 2011 at 11:00 AM with the Precision Plating Ltd. owner present.
 - The FD advised that they are offering funds to allow remedial work to provide safe access and investigation of the fire and chemical spill location.
 - The FD agreed to take over security and control of activities within the evacuation zone from MoE during the course of the fire investigation.
 - The impacted strata owners have arranged for an earlier start for work that will begin at approximately 1:30 PM April 20th, to secure access for FD and Insurance investigators.
 - MoE Environmental Emergency Response Officer (EERO) will meet with Worksafe BC at 9:00 AM, April 21, 2011 to plan transitioning work site control and monitoring from MoE to Worksafe BC and the property management company.
 - EERO expects to rescind the MoE tactical evacuation on April 21st, pending acquiring an agreement with the FD, Worksafe BC and the property management company that will maintain site control, pollution prevention, and safety of business owners/occupants and employees.

- The impacted strata unit owners generally understand that it is a strata council's responsibility to develop a reoccupancy plan with assistance from their property management company & contractors and in consultation with government agencies with jurisdiction.
- A final update is planned for the afternoon of April 21st, 2011, when the MoE EERO anticipates rescinding the tactical evacuation, relinquishing site control to the property management company, Worksafe BC and the FD.

Thank you,

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Knox, Graham ENV:EX
Sent: Saturday, April 23, 2011 9:58 AM
To: Standen, Jim ENV:EX; Hofweber, Jim E ENV:EX
Cc: Riedler, Harold ENV:EX
Subject: FW: Precision Plating Spill, Surrey
Attachments: Draft Issues Note Precision Plating Spill, Surrey April, 2011.docx

Greetings,

I have begun drafting the issues note (attached) requested below by Cheryl however, it will require additional input and review by Harold Riedler on Tuesday prior to being finalized.

s.13

Let me know if you need anything further on this in the time being?

Thanks,

Graham

From: Wenezenki-Yolland, Cheryl EAO:EX
Sent: Fri, April 22, 2011 7:49 AM
To: Standen, Jim ENV:EX; Knox, Graham ENV:EX
Cc: Jackson, Vickie ENV:EX
Subject: Fw: Precision Plating Spill, Surrey

Can you please prepare a briefing not for the Minister on this situation. The updates are appreciated. And the Minister would appreciate a brief overview of the situation and where things are at. As you can see he is contemplating a site visit.

Please have this complete as soon as possible.

Cheryl

From: Lake, Terry ENV:EX
Sent: Thursday, April 21, 2011 10:50 PM
To: Sharma, Rishi ENV:EX
Cc: Loiacono, Sabrina ENV:EX; Johnston, Karen PAB:EX; Wenezenki-Yolland, Cheryl EAO:EX
Subject: Re: Precision Plating Spill, Surrey

Can I get a briefing note that summarizes this situation. The updates I have received are quite confusing.

Thanks, Terry

From: Sharma, Rishi ENV:EX
Sent: Thursday, April 21, 2011 10:27 PM
To: Lake, Terry ENV:EX
Cc: Loiacono, Sabrina ENV:EX; Johnston, Karen PAB:EX; Wenezenki-Yolland, Cheryl EAO:EX
Subject: Precision Plating Spill, Surrey

I would suggest a visit to this site...

Rish

From: Knox, Graham ENV:EX

Sent: Thursday, April 21, 2011 09:26 PM

To: ENV !Emergency Incident Contacts; Wagner, Rick S ENV:EX

Subject: Code 2. Precision Plating Spill, Surrey- Update April 21, 2011, @ 9:30 PM

Our File: DGIR110134

Greetings,

The following is intended to provide the current status of the ministry's response to the April 12, 2011 Precision Plating Ltd. fire and chemical spill in Surrey:

- April 21, 2011, 9:00 AM, MoE Environmental Emergency Response Officer (EERO) attended a meeting with Worksafe BC and Surrey Fire Department (FD) to gain a current status of the response and determine when to transition agency oversight and control over the 13045 – 84th Avenue evacuation zone from MoE to FD and Worksafe BC.
 - Precision Plating Ltd. retained a hazardous materials contractor to conduct clean-up on April 20, 2011 to allow safe access for the FD and insurance investigators to complete their fire investigation within the heavily contaminated Precision Plating unit 101.
 - Worksafe BC found the hazardous materials contractor unqualified and unprepared to conduct the required hazardous materials work in a safe manner and denied the contractor any entry to the unit.
 - FD Hazmat was called in and prepared safe access to allow the FD and insurance fire investigations to proceed and it appears the investigators' site information needs were satisfied.
 - It was agreed that the FD Hazmat crew will conduct a thorough inspection of Unit 101 in the afternoon of April 21st to gather further information of the chemical storage and state of chemical containment.
 - FD will provide a report on April 22nd to the EERO after they consult and verify information with the Unit 101 business operator to determine whether a hazard exists that may result in chemical reaction or mass release from fire damaged containment and discharge to the environment.
 - If the report finds a stable condition, MoE will rescind the tactical evacuation and transfer regulatory oversight and control to the FD, Worksafe BC and the property management company.
 - Fire watch and security is being maintained.
- April 21, 2011, 4:00 PM, a meeting was attended by FD, the property management company, MoE EERO and concerned strata owners and strata council members to provide an update on the regulatory and property management company response.
 - Strata owners advised that they and their employees are experiencing extreme hardship and are not seeing any chance of reoccupation in time to save their businesses.
 - Two strata owners presented questions to the EERO challenging the evacuation, despite risking their personal health.
 - The certified hygienist report that included the risks associated with contamination found within the evacuated strata building (written in laymen's terms) was provided by the property manager to each of the attending strata owner/business members. Remaining members that were not in attendance will also receive the report from the property management company.
 - It was suggested that the strata council arrange for a direct meeting with the hygienist that authored the report to address any further questions that they may have in regard to the extent of contamination in their effected units.
 - The meeting re-enforced the agencies' suggestion that strata owners communicate with their strata council and allow their property management company to assist in finding a resolution.
- April 21, 2011, 5:30 PM, FD Hazmat arrived and the hazmat crew conducted an inspection of Unit 101.

- Photos, schematics and observations were obtained to be reviewed with the Unit 101 business owner before finalizing the report for review by the EERO on April 22, 2011.
- Should the final report find a stable condition within Unit 101, the EERO will rescind the MoE tactical evacuation and ensure a continuance in agency oversight that have continuing jurisdiction.
- The incident will then be downgraded to Code 1.
- MoE will continue to follow-up in regard to evaluating the impact to the receiving environment and monitoring compliance with respect to provincial hazardous waste management and disposal legislation.

Thank you,

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

ADVICE TO MINISTER

CONFIDENTIAL ISSUES NOTE

Ministry: Environment

Date: April 23, 2011

Minister Responsible: Environment Minister
Terry Lake

Precision Plating Spill, Surrey

ADVICE AND RECOMMENDED RESPONSE:

s.13

KEY FACTS REGARDING THE ISSUE:

On April 12, 2011 a fire occurred at Unit 101, 13045 – 84th Avenue in Surrey that resulted in the release of chromic acid, sulfuric acid and nickel plating solution to neighbouring business units and the environment. Due to the toxic hazards and associated risks of spontaneous fire when chromic acid comes in contact with organic materials the responding ministry Environmental Emergency Response Officer effected a tactical evacuation of the 15 businesses that occupy the complex to ensure public safety. Tactical evacuation was supported by Surrey fire department due to fire and public safety risks.

The responsible party was requested to hire an environmental response contractor to assess the spill and take appropriate action to cleanup the spill. It was also determined among the responsible party and responding agencies that an industrial hygienist would be required to determine when the effected business units would be safe to re-occupy. Due to the on-going fire hazard the fire department required unimpeded access to the site to ensure they would be able to respond to a fire. This requirement led to impacts to neighbouring businesses through vehicle access restrictions for the businesses and their clients.

The situation became further complicated by concerns raised by the response contractors regarding payment from the responsible party and therefore they refused to take further response actions until payment for their services was ensured. The inability of the responsible party to address these concerns resulted in delays in cleanup and extended the duration of impacts to business tenants of the complex and neighbouring businesses being impacted by the security zone established around the site. Additional delays to cleanup resulted from subsequent response contractors hired by the responsible party being deemed unsuitable to perform the hazardous material response by WorkSafe BC.

Communications Contact: Angie Poss
Program Area Contact: Harold Riedler
File Created: April 23, 2011
File Updated:
File Location:

250 205-4582
604 582-5278

Fuller, Ryan ENV:EX

From: Riedler, Harold ENV:EX
Sent: Saturday, April 23, 2011 1:13 PM
To: 'JTCaviglia@surrey.ca'
Cc: Wagner, Rick S ENV:EX; Knox, Graham ENV:EX; Fuller, Ryan ENV:EX
Subject: Re: 13045 - 84 ave

Our File: DGIR 110134

Thank you, Chief Caviglia. I agree with your proposed follow-up. I suggest that we include Worksafe BC and the Fraser Health Authority in the Tuesday discussion. Would it be OK with you if a copy of your report be provided to these agency stakeholders, as well? Once again, I can't thank you and your department enough for all the progressive action and support provided by Surrey Fire Department to all the other agency stakeholders, contractors, insurance representatives and strata owners. Your department's actions have substantially moved progress closer towards a final resolution.

Harold Riedler
Senior Environmental Emergency Response Officer
Ministry of Environment
South Coastal Region

From: Caviglia, Jon [<mailto:JTCaviglia@surrey.ca>]
Sent: Saturday, April 23, 2011 12:32 PM
To: Riedler, Harold ENV:EX
Cc: McSherry, Andrew WCB:EX; Lau, Geoffrey WCB:EX
Subject: FW: 13045 - 84 ave

FYI

On Thursday the Haz team entered suite #101 and conducted a survey and inspection of the containers and their contents.

Their report is expected to be completed this evening.

From this report it should be clearer as to the next steps that will be required and the agencies that will have further involvement/jurisdiction.

I hope to be able to talk with you on Tuesday morning to discuss further.

Thanks

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

Riedler, Harold ENV:EX

From: Caviglia, Jon [JTCaviglia@surrey.ca]
Sent: Saturday, April 23, 2011 1:20 PM
To: Riedler, Harold ENV:EX
Subject: RE: 13045 - 84 ave

Harold

Yes a report will be forwarded to all the appropriate agencies after we (MOE, Workafe and Fire) have had a chance to discuss.

I will update the FHA on Tuesday as well.

Thanks for your input

Jon

From: Riedler, Harold ENV:EX [<mailto:Harold.Riedler@gov.bc.ca>]
Sent: Saturday, April 23, 2011 13:13
To: Caviglia, Jon
Cc: Wagner, Rick S ENV:EX; Knox, Graham ENV:EX; Fuller, Ryan ENV:EX
Subject: Re: 13045 - 84 ave

Our File: DGIR 110134

Thank you, Chief Caviglia. I agree with your proposed follow-up. I suggest that we include Worksafe BC and the Fraser Health Authority in the Tuesday discussion. Would it be OK with you if a copy of your report be provided to these agency stakeholders, as well? Once again, I can't thank you and your department enough for all the progressive action and support provided by Surrey Fire Department to all the other agency stakeholders, contractors, insurance representatives and strata owners. Your department's actions have substantially moved progress closer towards a final resolution.

Harold Riedler
Senior Environmental Emergency Response Officer
Ministry of Environment
South Coastal Region

From: Caviglia, Jon [<mailto:JTCaviglia@surrey.ca>]
Sent: Saturday, April 23, 2011 12:32 PM
To: Riedler, Harold ENV:EX
Cc: McSherry, Andrew WCB:EX; Lau, Geoffrey WCB:EX
Subject: FW: 13045 - 84 ave

FYI

On Thursday the Haz team entered suite #101 and conducted a survey and inspection of the containers and their contents.

Their report is expected to be completed this evening.

From this report it should be clearer as to the next steps that will be required and the agencies that will have further involvement/jurisdiction.

I hope to be able to talk with you on Tuesday morning to discuss further.

Thanks

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

Riedler, Harold ENV:EX

From: Caviglia, Jon [JTCaviglia@surrey.ca]
Sent: Monday, April 25, 2011 1:44 PM
To: Riedler, Harold ENV:EX; Lau, Geoffrey WCB:EX
Cc: McSherry, Andrew WCB:EX
Subject: FW: Hazmat incident
Attachments: Hazmat Incident (3) Greg rewrite.docx

Please find the attached report from the Surrey Fire Service Hazmat crew that attended to the site on April 21, 2011.

I would like to meet or at least talk to you tomorrow morning to discuss the next steps.

Hope you had a good weekend.

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

04/22/2011

Hazmat Incident - 13045 84th Ave

Incident # 11-17195

Capt. Mark Bell

Hazmat Incident - 13045 84th Ave

Incident # 11-17195

The purpose of this report is to detail the findings of the Surrey Fire Dept. Hazmat team based on a visual recon of suite #101. Additional information was provided by the owner of the company, and work previously conducted by Hazco (chemical classification, and PH testing).

For the purposes of reporting what was found, we will divide the suite into areas, and discuss each area separately. All of these areas were photographed, and can be viewed at Hall 18 at the discretion of Deputy Chief Caviglia, Asst. Chief Deluca, and Capt. Berube.

Soda ash has been placed on the entire surface of the floor in this suit. During our first recon we tested the PH of the liquid on the floor in the middle of the suite and found it to be a PH of 7. Due to only testing one specific area we cannot determine the PH levels of all areas of the floor.

Area Breakdown

Area 1 – The process line that runs along the east wall. This is the process line where the fire occurred.

Area 2 – The 2nd process line west of the east wall.

Area 3 – The 3rd process line further west of the east wall.

Area 4 – The 4th process area furthest west of the east wall.

Area 5 – All items located in the north half of the suite. This also includes any items in the center of the suite and not connected to a process line.

Area 1

The vats will be numbered in order from the south wall towards the north. It appeared that all of the vats in this area were elevated and off the ground. The fire in this area was centralized in vats 1,2, and 3 with heat and flame possibly effecting vat 4. The condition of vat 4 is unknown but is holding a liquid. This vat should be placed on a higher priority when drafting a cleanup plan, due to its proximity to the fire.

Vat 1 – Chromium vat

- This vat was nearly empty, and was involved in the fire.

Vat 2 – Chromium vat

- This vat was nearly empty, and was involved in the fire.

Vat 3 – Rinse vat

- This vat was melted and empty, and was involved in the fire.

Vat 4 – Rinse vat

- This vat was partially melted, was involved in the fire.
- Was full of liquid at PH 2 (aprox)

Vat 5 – Sulphuric Acid 40%

- Was originally half full (50 gal)
- Currently Full of liquid at PH 2 (aprox)

Vat 6 – Rinse Vat

- Currently Full with a PH of 6

Vat 7 - Caustic Vat

- Currently Full with a PH 12.5

Vat 8– Caustic Vat

- Currently Full with a PH 11

Vat 9 – Wax vat

Area 2

The vats will be numbered in order from the north wall towards the south wall. The vats in this area are all elevated and off the floor.

Vat 5 – Dewax water vat.

- PH 4

Vat 4 – Nickel Strip vat

- This vat is currently full.
- PH 12.5

Vat 3 – Unknown vat

- This vat was originally almost empty
- Currently almost full with a PH of 4

Vat 2 – Unknown vat

- This vat was originally almost empty

- Currently almost full with a PH 6

Vat 1 – Sulphamate Nickel

- Was originally half full (60 gal)
- Currently Full of liquid at PH 6

Area 3

The vats will be numbered in order from the north towards the south wall. The vats in this area are all elevated and off the floor.

Vat 7– Caustic vat

- 7/8 full at PH 12.5

Vat 6 – Rinse vat

- 3/4 full at PH 5

Vat 5 – Rinse vat

- 3/4 full at PH 2

Vat 4 – Hydrochloric acid (HCL) (50%)

- 3/4 Full of liquid at PH 2

Vat 3 – Sulphuric Acid 10%

- Was originally 12" full
- Currently Full of liquid at PH 2

Vat 2 - Nickel Vat

- Currently Unknown

Vat 1 – Empty Vat

- Currently Unknown

Area 4

The vats will be numbered in order clockwise from the northeast corner of vats to the northwest corner of vats. All of these vats were covered with a metal lid for the duration of the incident. The vats in this area are all elevated and off the floor.

Vat 1– Zincate vat

- PH 14

Vat 2 – Rinse vat

- PH 7

Vat 3 – Caustic vat

- PH 12

Vat 4 – Rinse vat

- PH 10

Vat 5 – Rinse vat

- PH 3

Vat 6 - Nitric Acid Vat

- PH 0

Area 5

This area contains many different containers, of which there were only three areas of concern. There is an elevated storage area on the east wall that stores about 10-20 5 gallon plastic pails. The integrity of the structure and the shelves appears to be stable. The three areas of concern listed below should be placed on the high priority list when drafting a cleanup plan. These three areas of concern are due to the fact that they are made of metal or a product that can be compromised by the chemicals that are on the floor. These containers are not elevated off the floor.

Concern 1 – Trichloroethylene

- This is a full 45 gal metal drum located in the middle of the suite near the west wall, between the copper flash and the black oxide.
- No obvious deterioration of the drum could be seen by responders at the time of inspection.

Concern 2 – Nickel cleaner (alstan cleaner 20)

- This is located directly under the staircase.

- These are 3 full fiberboard drums of solid material. They come packaged in plastic bags within the fiberboard drums.
- PH of 12 (aprox)
- No obvious deterioration of the drum could be seen by responders at the time of inspection.

Concern 3 – Chrome flakes

- This is located just south of the staircase on the floor in a 5 gal metal container.
- No obvious deterioration of the drum could be seen by responders at the time of inspection.

Riedler, Harold ENV:EX

From: DeGusseme, Larry [Larry.Degusseme@worksafebc.com]
Sent: Tuesday, April 26, 2011 10:37 AM
To: Caviglia, Jon; McSherry, Andrew WCB:EX; Riedler, Harold ENV:EX; Lau, Geoffrey WCB:EX
Subject: RE: Hazmat incident

Thanks Jon

Talk to you at 11.

Larry DeGusseme
Occupational Hygienist
WorkSafeBC
604-232-7075 (phone)
604-232-7077 (fax)

From: Caviglia, Jon [mailto:JTCaviglia@surrey.ca]
Sent: Tuesday, April 26, 2011 10:34 AM
To: McSherry, Andrew; harold.riedler@gov.bc.ca; Lau, Geoffrey; DeGusseme, Larry
Subject: RE: Hazmat incident

I have set up a conference call for 11:00

If you are in Vancouver call 604-899-2339

When prompted enter **s.15** followed by the # sign

If you are not in the Vancouver area phone me for a different dial in number

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

From: McSherry, Andrew [mailto:Andrew.McSherry@worksafebc.com]
Sent: Tuesday, April 26, 2011 09:56
To: Caviglia, Jon; harold.riedler@gov.bc.ca; Lau, Geoffrey; DeGusseme, Larry
Subject: RE: Hazmat incident

Hi Jon,

Works for me. **s.22**
participate on the call.

I would like to have Larry DeGusseme

Can you let us know what number we need to call into? Larry and I will be calling from separate numbers.

Andrew

Occupational Hygiene Officer
Surrey Office
WorkSafeBC

Mailing Address:
PO Box 5350 Stn Terminal
Vancouver, BC V6B 5L5

Phone: (604) 214-4864
Fax: (604) 233-9741

From: Caviglia, Jon [<mailto:JTCaviglia@surrey.ca>]
Sent: Tuesday, April 26, 2011 9:47 AM
To: McSherry, Andrew; harold.riedler@gov.bc.ca; Lau, Geoffrey
Subject: RE: Hazmat incident

I am in the office this morning would a teleconference at 11:00 work for everyone

Jon
604-543-6704

s.22

From: McSherry, Andrew [<mailto:Andrew.McSherry@worksafebc.com>]
Sent: Tuesday, April 26, 2011 08:33
To: Caviglia, Jon; harold.riedler@gov.bc.ca; Lau, Geoffrey
Subject: RE: Hazmat incident

Hi Jon,

so it would be better we
chatted on the phone than met up.

Andrew

Andrew McSherry
Occupational Hygiene Officer
Surrey Office
WorkSafeBC

Mailing Address:
PO Box 5350 Stn Terminal
Vancouver, BC V6B 5L5

Phone: (604) 214-4864
Fax: (604) 233-9741

From: Caviglia, Jon [<mailto:JTCaviglia@surrey.ca>]
Sent: Monday, April 25, 2011 1:44 PM
To: harold.riedler@gov.bc.ca; Lau, Geoffrey
Cc: McSherry, Andrew
Subject: FW: Hazmat incident

Please find the attached report from the Surrey Fire Service Hazmat crew that attended to the site on April 21, 2011.

I would like to meet or at least talk to you tomorrow morning to discuss the next steps.

Hope you had a good weekend.

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.21

Follow us on Twitter, Facebook, YouTube, or one of our many social networks:
http://www.worksafebc.com/news_room/SocialNetworks/default.asp

CONFIDENTIALITY DISCLAIMER

The information contained in this transmission may contain privileged and confidential information of WorkSafeBC - the Workers' Compensation Board. It is intended for review only by the person(s) named above. Dissemination, distribution or duplication of this communication is strictly prohibited by all recipients unless expressly authorized otherwise. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Tuesday, April 26, 2011 8:57 AM
To: 'Kevin.li@fraserhealth.ca'
Cc: Fuller, Ryan ENV:EX
Subject: Urgent re: Precision Plating - Fire Department Inspection report.
Attachments: Hazmat Incident (3) Greg rewrite.docx

Urgent. Please review ASAP as the stakeholders would like to hold a conference call regarding this report this morning to determine what further agency monitoring is required to ensure continued protection of workers, strata occupant, public health and the environment.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Caviglia, Jon [<mailto:JTCaviglia@surrey.ca>]
Sent: Monday, April 25, 2011 1:44 PM
To: Riedler, Harold ENV:EX; Lau, Geoffrey WCB:EX
Cc: McSherry, Andrew WCB:EX
Subject: FW: Hazmat incident

Please find the attached report from the Surrey Fire Service Hazmat crew that attended to the site on April 21, 2011.

I would like to meet or at least talk to you tomorrow morning to discuss the next steps.

Hope you had a good weekend.

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.21

04/22/2011

Hazmat Incident - 13045 84th Ave

Incident # 11-17195

Capt. Mark Bell

Hazmat Incident - 13045 84th Ave

Incident # 11-17195

The purpose of this report is to detail the findings of the Surrey Fire Dept. Hazmat team based on a visual recon of suite #101. Additional information was provided by the owner of the company, and work previously conducted by Hazco (chemical classification, and PH testing).

For the purposes of reporting what was found, we will divide the suite into areas, and discuss each area separately. All of these areas were photographed, and can be viewed at Hall 18 at the discretion of Deputy Chief Caviglia, Asst. Chief Deluca, and Capt. Berube.

Soda ash has been placed on the entire surface of the floor in this suit. During our first recon we tested the PH of the liquid on the floor in the middle of the suite and found it to be a PH of 7. Due to only testing one specific area we cannot determine the PH levels of all areas of the floor.

Area Breakdown

Area 1 – The process line that runs along the east wall. This is the process line where the fire occurred.

Area 2 – The 2nd process line west of the east wall.

Area 3 – The 3rd process line further west of the east wall.

Area 4 – The 4th process area furthest west of the east wall.

Area 5 – All items located in the north half of the suite. This also includes any items in the center of the suite and not connected to a process line.

Area 1

The vats will be numbered in order from the south wall towards the north. It appeared that all of the vats in this area were elevated and off the ground. The fire in this area was centralized in vats 1,2, and 3 with heat and flame possibly effecting vat 4. The condition of vat 4 is unknown but is holding a liquid. This vat should be placed on a higher priority when drafting a cleanup plan, due to its proximity to the fire.

Vat 1 – Chromium vat

- This vat was nearly empty, and was involved in the fire.

Vat 2 – Chromium vat

- This vat was nearly empty, and was involved in the fire.

Vat 3 – Rinse vat

- This vat was melted and empty, and was involved in the fire.

Vat 4 – Rinse vat

- This vat was partially melted, was involved in the fire.
- Was full of liquid at PH 2 (aprox)

Vat 5 – Sulphuric Acid 40%

- Was originally half full (50 gal)
- Currently Full of liquid at PH 2 (aprox)

Vat 6 – Rinse Vat

- Currently Full with a PH of 6

Vat 7 - Caustic Vat

- Currently Full with a PH 12.5

Vat 8– Caustic Vat

- Currently Full with a PH 11

Vat 9 – Wax vat

Area 2

The vats will be numbered in order from the north wall towards the south wall. The vats in this area are all elevated and off the floor.

Vat 5 – Dewax water vat.

- PH 4

Vat 4 – Nickel Strip vat

- This vat is currently full.
- PH 12.5

Vat 3 – Unknown vat

- This vat was originally almost empty
- Currently almost full with a PH of 4

Vat 2 – Unknown vat

- This vat was originally almost empty

- Currently almost full with a PH 6

Vat 1 – Sulphamate Nickel

- Was originally half full (60 gal)
- Currently Full of liquid at PH 6

Area 3

The vats will be numbered in order from the north towards the south wall. The vats in this area are all elevated and off the floor.

Vat 7– Caustic vat

- 7/8 full at PH 12.5

Vat 6 – Rinse vat

- 3/4 full at PH 5

Vat 5 – Rinse vat

- 3/4 full at PH 2

Vat 4 – Hydrochloric acid (HCL) (50%)

- 3/4 Full of liquid at PH 2

Vat 3 – Sulphuric Acid 10%

- Was originally 12" full
- Currently Full of liquid at PH 2

Vat 2 - Nickel Vat

- Currently Unknown

Vat 1 – Empty Vat

- Currently Unknown

Area 4

The vats will be numbered in order clockwise from the northeast corner of vats to the northwest corner of vats. All of these vats were covered with a metal lid for the duration of the incident. The vats in this area are all elevated and off the floor.

Vat 1– Zincate vat

- PH 14

Vat 2 – Rinse vat

- PH 7

Vat 3 – Caustic vat

- PH 12

Vat 4 – Rinse vat

- PH 10

Vat 5 – Rinse vat

- PH 3

Vat 6 - Nitric Acid Vat

- PH 0

Area 5

This area contains many different containers, of which there were only three areas of concern. There is an elevated storage area on the east wall that stores about 10-20 5 gallon plastic pails. The integrity of the structure and the shelves appears to be stable. The three areas of concern listed below should be placed on the high priority list when drafting a cleanup plan. These three areas of concern are due to the fact that they are made of metal or a product that can be compromised by the chemicals that are on the floor. These containers are not elevated off the floor.

Concern 1 – Trichloroethylene

- This is a full 45 gal metal drum located in the middle of the suite near the west wall, between the copper flash and the black oxide.
- No obvious deterioration of the drum could be seen by responders at the time of inspection.

Concern 2 – Nickel cleaner (alstan cleaner 20)

- This is located directly under the staircase.

- These are 3 full fiberboard drums of solid material. They come packaged in plastic bags within the fiberboard drums.
- PH of 12 (aprox)
- No obvious deterioration of the drum could be seen by responders at the time of inspection.

Concern 3 – Chrome flakes

- This is located just south of the staircase on the floor in a 5 gal metal container.
- No obvious deterioration of the drum could be seen by responders at the time of inspection.

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 27, 2011 1:07 PM
To: SG PEP ECC1 SG:EX
Cc: Fuller, Ryan ENV:EX; Dalal, Suntanu PAB:EX; Knox, Graham ENV:EX
Subject: Update re: Code 2, DGIR 110134 - April 12, 2011 Precision Plating Fire and Chemical Spill

The tactical evacuation has been rescinded by Ministry of Environment and therefore this DGIR can be downgraded to Code 1. Currently, the Strata building @ 13045 – 84th Avenue can only be accessed by qualified persons donning personal protective equipment suitable for the contamination identified within the building. City of Surrey Fire Department, in consultation with Worksafe BC, Fraser Health Authority and MoE, has provided a letter to the Property Manager that provides detailed instruction on required measures to regain occupancy of the business units. Site security has transitioned to the control of the Property Manager with Worksafe BC regulatory oversight.

Environmental Protection, Business and Standards Section and the Land Remediation Unit will be made aware of the remaining issues for their follow-up consideration associated with hazardous waste management, identified unauthorized business waste discharges and site contamination. In addition, Metro Vancouver will be requested to conduct a compliance check concerning Precision Plating Ltd.'s permitted air treatment works. The Fraser Health Authority will be responding in conjunction with the appropriate Health Canada agency to address commercial packaged and prepackaged food within impacted units that may have been exposed to contaminants during the fire.

The Environmental Emergency Management Program will be standing down as this fire and chemical spill event is now considered as being stable.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 27, 2011 1:42 PM
To: Dalal, Suntanu PAB:EX
Subject: FW: chemical fire/spill Surrey - April 12

Suntanu,

Do you want me to respond to this reporters request?

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Jeff Nagel - Surrey Leader [<mailto:jnagel@surreyleader.com>]
Sent: Monday, April 25, 2011 3:18 PM
To: Riedler, Harold ENV:EX
Subject: chemical fire/spill Surrey - April 12

Hi Harold,

I understand several businesses are still closed as a result of that chemical spill at Precision Plating in Surrey April 12.

Can you call me and tell me what you know about this case, including any findings to date on harm to fish habitat and when the outlets there may be able to reopen?

Jeff Nagel

regional news reporter | Black Press | www.bclocalnews.com | www.surreyleader.com
phone: 604-575-5334 | fax: 604-575-2544 | email: jnagel@surreyleader.com

Follow my updates on Twitter: www.twitter.com/jeffnagel

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 27, 2011 2:17 PM
To: Dalal, Suntanu PAB:EX
Subject: RE: For Review: Bullets for Precision Plating media request...

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Dalal, Suntanu PAB:EX
Sent: Wednesday, April 27, 2011 1:53 PM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX; Poss, Angie PAB:EX
Subject: For Review: Bullets for Precision Plating media request...

Hi,

I've combined most of the info you provided today in your update as well as elements of the messaging in the attached Issues Note.

Do the bullets below look OK to you? Are they accurate? Feel free to make changes to them and send back to me ASAP.

- The health and safety of the people who work in and around the area is always a first priority of a multi agency unified response to an incident like this. Chromic acid is a highly toxic chemical that can spontaneously combust when it comes into contact with organic materials like cardboard, wood or carpet, causing another fire.
- Access to the building had been restricted by the Ministry of Environment until the ongoing risk of fire and threat from chemical exposure outside the building was mitigated. This protected the people who work in these businesses and prevented another fire and spill incident that would pose a risk to human health and the environment.
- The Ministry of Environment shares the strata owners' and occupants' concerns about the pace of clean-up and the impact that this incident has had on their businesses.
- The Ministry of Environment has lifted their evacuation as of today and site security and control is being maintained by the Property Manager with Worksafe BC regulatory oversight.
- Currently, the strata building at 13045-84th Avenue can only be accessed by qualified persons wearing personal protective equipment suitable for the contamination identified within the building.
- The City of Surrey Fire Department – in consultation with WorkSafeBC, Fraser Health Authority and the Ministry of Environment – has provided a letter to the property manager of the building that provides detailed instruction on required measures to regain occupancy of the business units.
- The property management company will communicate progress reports to strata owners and will assist in the coordination of clean-up activities as required.

- The Ministry of Environment's Environmental Protection, Business and Standards Section and the Land Remediation Unit will be made aware of the remaining issues for their follow-up consideration associated with hazardous waste management, business waste discharges and site contamination.
- The Fraser Health Authority will be responding in conjunction with the appropriate Health Canada agency to address commercial packaged and pre-packaged food within impacted units that may have been exposed to contaminants during the fire.
- The Environmental Emergency Management Program will be standing down as this fire and chemical spill event is now considered as being stable.

Thanks,
Suntanu

From: Dalal, Suntanu PAB:EX
Sent: Wednesday, April 27, 2011 12:35 PM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX; Poss, Angie PAB:EX; Gilmore, Dan PAB:EX
Subject: Media Request: Precision Plating update...

Hi Harold,

The Surrey Leader would like an update on the Precision Plating situation. Is there anything new to add to the information already in the attached Issues Note?

<< File: IN_Precision Plating Hazmat Fire_April 18 2011_D1.doc >>
 I need to get back to the reporter with approved messaging before 3 p.m. today.

Thanks,

Suntanu Dalal
 Communications Officer
 Ministry of Environment
 250 387-9745

<< OLE Object: Picture (Device Independent Bitmap) >>

Jon

-----Original Message-----

From: Caviglia, Jon
Sent: Tuesday, April 26, 2011 17:39
To: Jim Marchi (jimmarchi@paragonrealty.ca)
Subject: FW: Scan from a Xerox WorkCentre Pro

Please forward to Alfred

-----Original Message-----

From: Caviglia, Jon
Sent: Tuesday, April 26, 2011 17:37
To: Alfred Marchi (alfredmarchi@paragonrealty.ca)
Cc: Garis, Len
Subject: FW: Scan from a Xerox WorkCentre Pro

Hi Alfred

I spoke to the owners on site today to inform them they would be receiving a letter from you.
The letter doesn't cover everything but is meant to be an additional piece of communication to you and the owners.
Please call me after you review the letter so we can discuss moving things along.

Thanks

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

No virus found in this message.

Checked by AVG - www.avg.com

Version: 10.0.1209 / Virus Database: 1500/3600 - Release Date: 04/27/11

April 26, 2011

File: 7130-05

Mr. Alfred Marchi
Property Manager
Paragon Realty Corporation
#101, 5550 - 152 St
Surrey BC V3S 5J9

Dear Mr. Marchi:

Re: 13045 - 84 Ave Process to remediate hazards and reopen businesses

This letter is in response to our recent discussion regarding the steps required to reoccupy the strata units at 13045 - 84 Ave Surrey.

As you are aware on April 21, 2011, the Surrey Fire Service completed an evaluation on the containers in suite 101. As a result of their findings the Ministry of Environment has rescinded the evacuation order; however, this should not be construed as a sign that all the hazardous conditions have been mitigated. There are still numerous serious health and safety issues that must be assessed and controlled prior to the building being occupied. The building owner (i.e. the strata) has the responsibility to ensure that these issues are addressed. The following are some examples:

- An assessment must be done by a qualified electrician to determine if it is safe to restore power to the units. Prior to providing the electrician access to the building he must be made aware of all of the potential and known hazards at the work site, and follow safe work practices acceptable to WorkSafeBC. Power must not be restored until a qualified electrician has determined that it is safe to do so. Note that the electrician must not be permitted to enter the electrical room or a strata unit until health and safety hazards have been adequately controlled;
- The fire access corridor must be safe to re-occupy;
- The fire detection and suppression system must be in working order or a temporary fire watch can be used. Note strata owners should contact their insurance agents and notify them the fire suppression and fire detection systems are currently not functioning;
- The structural integrity of the building must be assessed if necessary by a qualified person;
- All hazardous chemicals must be safely contained, properly labeled, and stored, and or transported and disposed in accordance with applicable regulations;
- Chemical decontamination of individual strata units must be conducted and coordinated by qualified persons who have expertise in chemical spill cleanup, and
- Documented evidence that the above has been accomplished must be available for review.

For additional information regarding workplace health and safety regulatory requirements, please contact WorksafeBC representative Andrew McSherry at 604-214-2864.

Your assistance with forwarding this information to the building owner and the unit owners, and keeping them apprised of progress as it is made, is appreciated.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jon Caviglia".

Jon Caviglia
Deputy Chief
Surrey Fire Service

Cc Harold Riedler MOE
 Andrew McSherry WSBC
 Larry DeGusseme WSBC
 Glen Embree FHA

JC/jlg

Riedler, Harold ENV:EX

From: Alf Marchi [alfmarchi@paragonrealty.ca]
Sent: Wednesday, April 27, 2011 2:42 PM
To: precisionplating@gmail.com; mail@machining.ca; cm@cityfire.ca; zahir@thirstfirst.ca;
s.22 gcinsulation@yahoo.com;
gurpreet@goldentradingltd.com; s.22 blccsurrey@gmail.com
Cc: greg@canstarrestorations.com; Nick.Bainbridge@crawco.ca; McSherry, Andrew
WCB:EX; Riedler, Harold ENV:EX; JTCaviglia@surrey.ca
Subject: FW: Scan from a Xerox WorkCentre Pro
Attachments: Scan001.PDF

Hello All,

Below is the email I received from Deputy Chief Caviglia along with the attached letter. The good news is that the evacuation order has been lifted. However, we must still follow the procedure set out in the letter before the units can be occupied.

This morning I spoke to Hydro about turning the power back on. Hydro will not turn the power on until we have had the electrical re-inspected by a City of Surrey Electrical Inspector. This will require the Strata to take out an electrical permit. I spoke with CM Puri, who is an owner in the complex and has done all of the original electrical work, and he has already submitted an application for inspection with the City on the Strata's behalf. Deputy Fire Chief Caviglia will also be following up with the City Electrical Inspector in order to speed up the process. Once the re-inspection has occurred then CM will be contacting Hydro to turn the power back on.

I received a call from Canstar to say that they have cleaned the electrical room. Pacific Environmental will therefore be in tomorrow morning to hopefully approve the electrical room safe for entry.

Miro, unit 101 owner, has informed me that he now has an environmental company coming in to do the clean-up in his unit. I'm checking with Worksafe BC to see when we can get a contractor in the unit to replace the sprinkler head so that the fire safety system can then be activated.

This is all I have to report for the time being. If any of you have specific questions regarding this issue please give me a call on my cell s.22 or at the office 604-576-3868

Regards,

Alfred A. Marchi
Office: 604-576-3868
Fax: 604-576-3813



From: Caviglia, Jon [mailto:JTCaviglia@surrey.ca]
Sent: April-27-11 2:02 PM
To: alfmarchi@paragonrealty.ca
Subject: FW: Scan from a Xerox WorkCentre Pro

Hi Alf

Sorry for the delay

Jon

-----Original Message-----

From: Caviglia, Jon

Sent: Tuesday, April 26, 2011 17:39

To: Jim Marchi (jimmarchi@paragonrealty.ca)

Subject: FW: Scan from a Xerox WorkCentre Pro

Please forward to Alfred

-----Original Message-----

From: Caviglia, Jon

Sent: Tuesday, April 26, 2011 17:37

To: Alfred Marchi (alfredmarchi@paragonrealty.ca)

Cc: Garis, Len

Subject: FW: Scan from a Xerox WorkCentre Pro

Hi Alfred

I spoke to the owners on site today to inform them they would be receiving a letter from you.

The letter doesn't cover everything but is meant to be an additional piece of communication to you and the owners.

Please call me after you review the letter so we can discuss moving things along.

Thanks

Jon Caviglia

Deputy Chief

Surrey Fire Service

604-543-6704

s.22

No virus found in this message.

Checked by AVG - www.avg.com

Version: 10.0.1209 / Virus Database: 1500/3600 - Release Date: 04/27/11



From: Caviglia, Jon [<mailto:JTCaviglia@surrey.ca>]
Sent: April-27-11 2:02 PM
To: alfmarchi@paragonrealty.ca
Subject: FW: Scan from a Xerox WorkCentre Pro

Hi Alf

Sorry for the delay

Jon

-----Original Message-----

From: Caviglia, Jon
Sent: Tuesday, April 26, 2011 17:39
To: Jim Marchi (jimmarchi@paragonrealty.ca)
Subject: FW: Scan from a Xerox WorkCentre Pro

Please forward to Alfred

-----Original Message-----

From: Caviglia, Jon
Sent: Tuesday, April 26, 2011 17:37
To: Alfred Marchi (alfredmarchi@paragonrealty.ca)
Cc: Garis, Len
Subject: FW: Scan from a Xerox WorkCentre Pro

Hi Alfred

I spoke to the owners on site today to inform them they would be receiving a letter from you.
The letter doesn't cover everything but is meant to be an additional piece of communication to you and the owners.
Please call me after you review the letter so we can discuss moving things along.

Thanks

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

No virus found in this message.

Checked by AVG - www.avg.com

Version: 10.0.1209 / Virus Database: 1500/3600 - Release Date: 04/27/11

Riedler, Harold ENV:EX

From: Caviglia, Jon [JTCaviglia@surrey.ca]
Sent: Tuesday, April 26, 2011 5:29 PM
To: Riedler, Harold ENV:EX; Degusseme, Larry WCB:EX; McSherry, Andrew WCB:EX; glen.embree@fraserhealth.ca
Subject: 13045 - 84 ave
Attachments: Scan001.PDF

Copy of the letter to Property Manager

Pages 361 through 363 redacted for the following reasons:

s.13

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 27, 2011 6:48 PM
To: Dalal, Suntanu PAB:EX
Subject: s.13

Suntanu,

s.13

s.13

Please contact me on my cell phone

s.22

should you have any questions that you would prefer to discuss with me, personally, rather than doing the email thing. Like you, I'm sure, I receive a lot of email while dealing with other pressing issues and sometimes I overlook emails requiring an immediate response.

s.13

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

s.13

Pages 365 through 370 redacted for the following reasons:

s.13

Riedler, Harold ENV:EX

From: Dalal, Suntanu PAB:EX
Sent: Thursday, April 28, 2011 9:24 AM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX; Poss, Angie PAB:EX
Subject: s.13

Hi Harold,

As discussed, could you please review the IN. Please note my comment and one tracked change.

s.13

Thanks,

Suntanu Dalal
Communications Officer
Ministry of Environment
250 387-9745



From: Riedler, Harold ENV:EX
Sent: Wednesday, April 27, 2011 6:48 PM
To: Dalal, Suntanu PAB:EX
Subject: FW: For Update: Precision Plating Issues Note...

Suntanu,

s.13

s.13

Please contact me on my cell phone

s.22

should you have any questions that you would prefer to discuss with me, personally, rather than doing the email thing. Like you, I'm sure, I receive a lot of email while dealing with other pressing issues and sometimes I overlook emails requiring an immediate response.

s.13

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

s.13

Pages 372 through 374 redacted for the following reasons:

s.13

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Thursday, April 28, 2011 9:37 AM
To: Dalal, Suntanu PAB:EX
Subject: s.13

Looks good. Note that the Land Remediation Unit and Business and Standards Group have been informally advised of the issues and will receive a formal referral within the next few days to allow for compilation of background material to be provided for reference.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Dalal, Suntanu PAB:EX
Sent: Thursday, April 28, 2011 9:24 AM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX; Poss, Angie PAB:EX
Subject: s.13

Hi Harold,

As discussed, could you please review the IN. Please note my comment and one tracked change.

s.13

Suntanu Dalal

Suntanu Dalal
Communications Officer
Ministry of Environment
250 387-9745

<< OLE Object: Picture (Device Independent Bitmap) >>

From: Riedler, Harold ENV:EX
Sent: Wednesday, April 27, 2011 6:48 PM
To: Dalal, Suntanu PAB:EX
Subject: FW: For Update: Precision Plating Issues Note...

Suntanu,

s.13

s.13

Please contact me on my cell phone s.22

should you have any questions that you would prefer to discuss with me, personally, rather than doing the email thing. Like you, I'm sure, I receive a lot of email while dealing with other pressing issues and sometimes I overlook emails requiring an immediate response.

s.13

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

s.13

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Thursday, April 28, 2011 11:03 AM
To: Knox, Graham ENV:EX
Subject: s.13

Graham,

I provided the majority of amendments to Santanu's draft last night and then spoke with him this morning by phone to finalize the Issue Note.

No further action required.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Knox, Graham ENV:EX
Sent: Thursday, April 28, 2011 10:56 AM
To: Dalal, Santanu PAB:EX; Riedler, Harold ENV:EX; Fuller, Ryan ENV:EX
Cc: Poss, Angie PAB:EX
Subject: Re: For Review: Precision Plating Issues Note...

Did you get a response from Harold? Ryan may be able to assist if not?

From: Dalal, Santanu PAB:EX
Sent: Thursday, April 28, 2011 09:24 AM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX; Poss, Angie PAB:EX
Subject: For Review: Precision Plating Issues Note...

Hi Harold,

As discussed, could you please review the IN. Please note my comment and one tracked change.

s.13

Thanks,

Suntanu Dalal
Communications Officer
Ministry of Environment
250 387-9745



From: Riedler, Harold ENV:EX
Sent: Wednesday, April 27, 2011 6:48 PM

To: Dalal, Suntanu PAB:EX

Subject: f

s.13

Suntanu,

s.13

s.13

Please contact me on my cell phone s.22 should you have any questions that you would prefer to discuss with me, personally, rather than doing the email thing. Like you, I'm sure, I receive a lot of email while dealing with other pressing issues and sometimes I overlook emails requiring an immediate response.

s.13

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office

Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

s.13

Riedler, Harold ENV:EX

From: Woodhouse, Christine A ENV:EX
Sent: Friday, April 29, 2011 10:03 AM
To: Knox, Graham ENV:EX
Cc: Sego, D'Arcy ENV:EX; Riedler, Harold ENV:EX
Subject: URGENT - please review - note on Precision Plating for Estimates
Attachments: Precision Plating Chromic Acid Spill.docx

Importance: High

Hi Graham,

I put the attached note together based on GCPE bullets and Emergency Ops updates.

Graham, Herald or D'Arcy, could you confirm that I've got the correct description of the evacuation status and how it has evolved? By noon today would be wonderful.

I'll be sending this for Director/ADM approval concurrently with your review once I figure out who is acting.

Thank you so much,

Christine Woodhouse
A/Issues Manager, Environmental Protection Division
BC Ministry of Environment
T (250) 356-5016, s.17
Christine.Woodhouse@gov.bc.ca

<p>ESTIMATES NOTE (2011)</p> <p>Confidential</p> <p>Ministry of Environment</p> <p>Date: April 29, 2011</p>	<p>ISSUE TITLE:</p> <p>Precision Plating Chromic Acid Spill</p>
---	---

KEY MESSAGES:

- **Key message #1 – The health and safety of the people who work in and around the area is always a first priority of a multi-agency unified response to an incident like this. Chromic acid is a highly toxic chemical that can spontaneously combust when it comes into contact with organic materials like cardboard, wood or carpet, causing another fire.**
- **Key message #2 – The Ministry shares the strata owners' and occupants' concerns about the pace of clean-up and the impact that this incident has had on their businesses.**
- **Key message #3 – Further clean-up will be required before all business can re-occupy the building.**

CURRENT STATUS:

Key message #1:

- The Ministry restricted access to the building until the risk of fire and chemical exposure building was mitigated. This was to protect the people who work in the building and to prevent another fire or spill.
- The Ministry lifted its evacuation advisory on April 27, though access is still restricted. The property manager is maintaining site security and control, with WorkSafe BC oversight.
- The fire and chemical spill event is now considered stable.

Key Message #2:

- Business and strata unit owners expressed concern about the impact the prolonged evacuation is having on their business.
- Stakeholder meetings addressed the fear that regulating agencies and/or environmental contractors are slowing the clean-up process.
- The strata unit owners appear to understand the insurance and strata emergency funding process and to have retained the required resources to get back to business.
- The property management company will communicate progress reports to strata owners and will assist in the coordination of clean-up activities.

Key message #3

- Following remediation an industrial hygienist will confirm the safe work environment necessary for re-occupancy.
- Ministry staff will follow-up regarding further hazardous waste management, business waste discharges and site contamination.
- The Fraser Health Authority and Health Canada will address commercial packaged food within impacted units that may have been exposed to contaminants.

KEY FACTS/BACKGROUND/OTHER AGENCIES:

- A number of businesses remain closed following an April 12, 2011, fire at Precision Plating Ltd. in Surrey. The fire caused a spill of a large amount of chromic acid (toxic, carcinogenic and combustible), used in the plating process.
- Two strata business complexes were within the initial evacuation zone: the site of the spill (13045-84th Avenue) and a nearby complex (13055-84th Avenue). The Ministry evacuated the area during the initial fire and spill, supported by the Surrey Fire Department and WorkSafe BC.
- The property manager hired a hazardous materials response contractor who treated and stabilized the spilled material, reducing the potential fire risk from high to moderate.
- Business operators at the second complex (13055-84th Avenue) can now return.
- Access to the spill site (13045-84th Avenue) is still restricted due to a risk of another fire. Power to the building is off because chromic acid pooled around the electrical equipment. Some of the businesses are heavily contaminated and need significant tear-out. The stormwater lines will also need remediation.
- The spill site (13045-84th Ave.) can only be accessed by qualified persons wearing personal protective equipment. On April 27 the Surrey Fire Department (in consultation with WorkSafe BC, Fraser Health Authority and the Ministry) communicated to the property manager measures required to regain occupancy of the business units.
- Ministry Environmental Emergency Response Officers (EEROs) responded to the initial fire and have since made several visits to the site and had regular meetings with the property owner, the fire department, the environmental contractor, the business operators and others.
- The property management company is responsible for addressing complaints and concerns from their clients for any delays in remedial work and strata unit occupancy.

Contact: Harold Riedler, Senior Environmental Emergency Response Officer, Environmental Management Branch, EPD, (604) 582-5278

Riedler, Harold ENV:EX

From: Chander Puri [cm@cityfire.ca]
Sent: Friday, April 29, 2011 6:03 PM
To: Alf Marchi
Cc: precisionplating@gmail.com; mail@machining.ca; zahir@thirstfirst.ca; s.22
s.22 gcinsulation@yahoo.com; gurpreet@goldentradingltd.com;
s.22 ; blccsurrey@gmail.com; greg@canstarrestorations.com;
Nick.Bainbridge@crawco.ca; McSherry, Andrew WCB:EX; Riedler, Harold ENV:EX;
JTCaviglia@surrey.ca
Subject: Re: FW: Scan from a Xerox WorkCentre Pro

Hi Alf,

Andy from City Fire has the sprinkler heads and will replace and re-install when allowed to do so as per the Fire Service.

CM

On Wed, Apr 27, 2011 at 2:41 PM, Alf Marchi <alfmarchi@paragonrealty.ca> wrote:

Hello All,

Below is the email I received from Deputy Chief Caviglia along with the attached letter. The good news is that the evacuation order has been lifted. However, we must still follow the procedure set out in the letter before the units can be occupied.

This morning I spoke to Hydro about turning the power back on. Hydro will not turn the power on until we have had the electrical re-inspected by a City of Surrey Electrical Inspector. This will require the Strata to take out an electrical permit. I spoke with CM Puri, who is an owner in the complex and has done all of the original electrical work, and he has already submitted an application for inspection with the City on the Strata's behalf. Deputy Fire Chief Caviglia will also be following up with the City Electrical Inspector in order to speed up the process. Once the re-inspection has occurred then CM will be contacting Hydro to turn the power back on.

I received a call from Canstar to say that they have cleaned the electrical room. Pacific Environmental will therefore be in tomorrow morning to hopefully approve the electrical room safe for entry.

Miro, unit 101 owner, has informed me that he now has an environmental company coming in to do the clean-up in his unit. I'm checking with Worksafe BC to see when we can get a contractor in the unit to replace the sprinkler head so that the fire safety system can then be activated.

This is all I have to report for the time being. If any of you have specific questions regarding this issue please give me a call on my cell 604-318-8585 or at the office 604-576-3868

Regards.

Alfred A. Marchi

Office: 604-576-3868

Fax: 604-576-3813

From: Caviglia, Jon [mailto:JTCaviglia@surrey.ca]
Sent: April-27-11 2:02 PM
To: alfmarchi@paragonrealty.ca
Subject: FW: Scan from a Xerox WorkCentre Pro

Hi Alf

Sorry for the delay

Jon

-----Original Message-----

From: Caviglia, Jon
Sent: Tuesday, April 26, 2011 17:39
To: Jim Marchi (jimmarchi@paragonrealty.ca)
Subject: FW: Scan from a Xerox WorkCentre Pro

Please forward to Alfred

-----Original Message-----

From: Caviglia, Jon
Sent: Tuesday, April 26, 2011 17:37
To: Alfred Marchi (alfredmarchi@paragonrealty.ca)
Cc: Garis, Len
Subject: FW: Scan from a Xerox WorkCentre Pro

Hi Alfred

I spoke to the owners on site today to inform them they would be receiving a letter from you.
The letter doesn't cover everything but is meant to be an additional piece of communication to you and the owners.
Please call me after you review the letter so we can discuss moving things along.

Thanks

Jon Caviglia
Deputy Chief
Surrey Fire Service
604-543-6704

s.22

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Tuesday, May 3, 2011 9:22 AM
To: 'SThompson@surrey.ca'
Subject: Precision Plating

Sorry for the late response. Please find the following references that can be used for criterion concerning Chromium and other metal discharges:

Schedule 6 of Contaminated Sites Regulation, Environmental Management Act
http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/375_96_08
Note that the CSR criterion are expressed in ug/L unless otherwise noted.

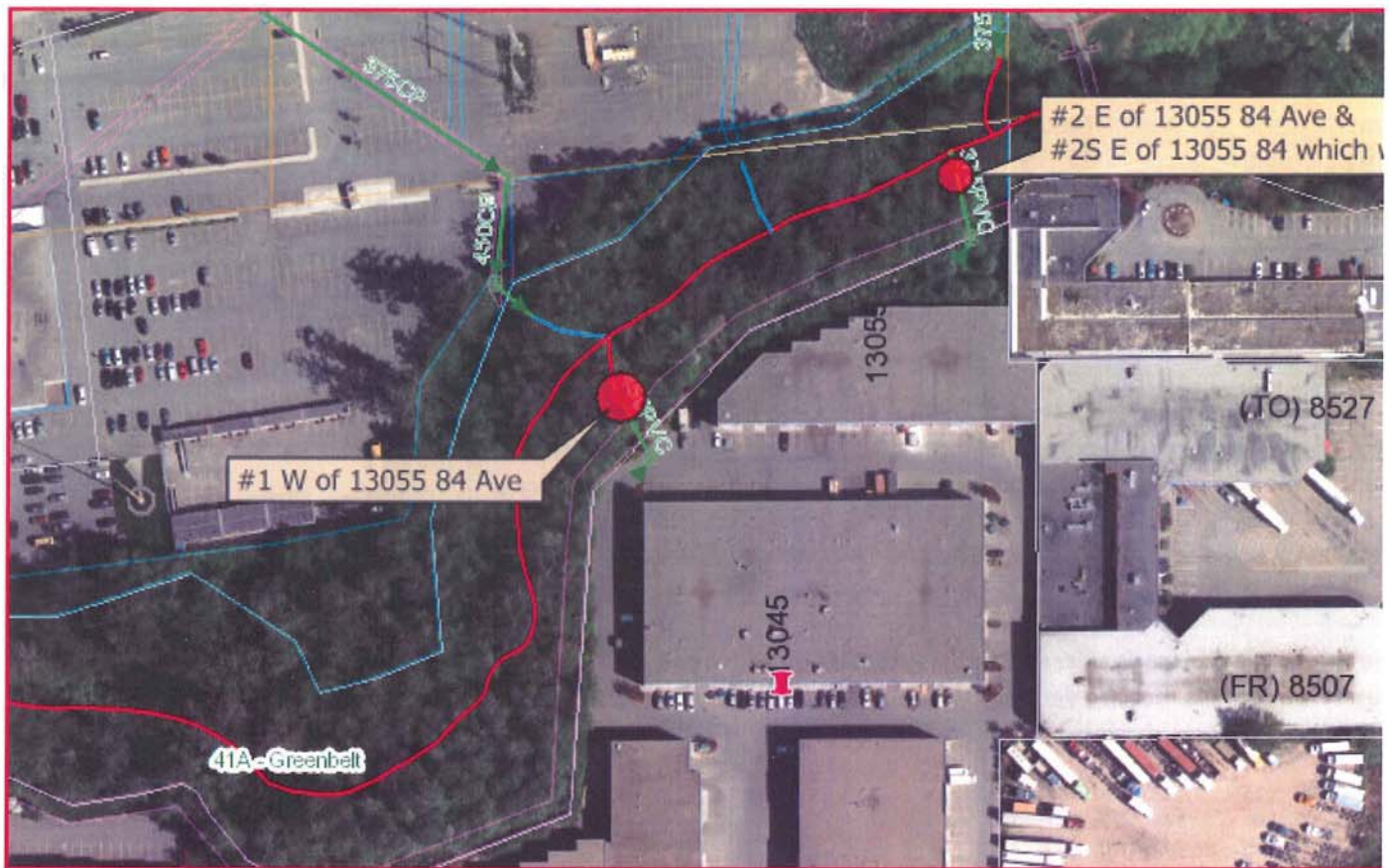
Schedule 1.2 of Hazardous Waste Regulation, Environmental Management Act
http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/63_88_03

Hope this helps. Please feel free to call me should you require more immediate response as I am mining through thousands of emails that are yet to be read and for that reason, I didn't see your request in a timely manner.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

Hi Harold

Attached are the lab results. The chromium levels were around 4.5 mg/L. I looked at the BC working water quality guideline and they did not have one for the total chromium. Do you know where I could find this standard or is there one? The CCME one had it for Cr(VI) and Cr(III). Also this was on a dry day and I will sample again on a rainy day. Would it be a good idea when I sample again to get Cr(VI) and Cr(III). Thanks



Stacey Thomson | Environmental Technologist



Engineering Department
 14245 56th Ave, Surrey, BC, Canada V3X 3A2
 T 604 591-4321 | F 604 591 8693 | SThomson@surrey.ca

Please consider the environment before printing this email

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, May 4, 2011 3:52 PM
To: Woodhouse, Christine A ENV:EX
Subject: RE: quick question re Precision Plating

In addition to my earlier email, the risk associated with chromic acid residue causing a fire is considered to be low at this time, as considerable neutralizing chemical has been applied to the contaminated units, a qualified clean-up contractor is involved in conducting work within this contaminated area and a fire watch is being maintained by 24 hours site security.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Woodhouse, Christine A ENV:EX
Sent: Wednesday, May 4, 2011 2:44 PM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX
Subject: quick question re Precision Plating
Importance: High

Hi Harold,

I have a quick question for you regarding Precision Plating: Is the following statement true?

WorkSafe BC and the Surrey Fire Service are currently restricting access to the spill site (13045-84th Avenue) due to a risk of another fire.

Graham thought I should confirm with you that it is WorkSafe BC and the Surrey Fire Service that are currently restricting access to the spill site. Are there any other agencies authorizing this access restriction?

This is for the Estimates debate in the House, so I'd really appreciate your quick response.

Thank you very much,

Christine Woodhouse
250-387-7950

Riedler, Harold ENV:EX

From: Woodhouse, Christine A ENV:EX
Sent: Wednesday, May 4, 2011 4:54 PM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX
Subject: RE: quick question re Precision Plating

Thank you so much, Harold. I really appreciate this detailed update with your earlier email. This helps me feel like I have the current information in the note.

From: Riedler, Harold ENV:EX
Sent: Wednesday, May 4, 2011 3:52 PM
To: Woodhouse, Christine A ENV:EX
Subject: RE: quick question re Precision Plating

In addition to my earlier email, the risk associated with chromic acid residue causing a fire is considered to be low at this time, as considerable neutralizing chemical has been applied to the contaminated units, a qualified clean-up contractor is involved in conducting work within this contaminated area and a fire watch is being maintained by 24 hours site security.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Woodhouse, Christine A ENV:EX
Sent: Wednesday, May 4, 2011 2:44 PM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX
Subject: quick question re Precision Plating
Importance: High

Hi Harold,

I have a quick question for you regarding Precision Plating: Is the following statement true?

WorkSafe BC and the Surrey Fire Service are currently restricting access to the spill site (13045-84th Avenue) due to a risk of another fire.

Graham thought I should confirm with you that it is WorkSafe BC and the Surrey Fire Service that are currently restricting access to the spill site. Are there any other agencies authorizing this access restriction?

This is for the Estimates debate in the House, so I'd really appreciate your quick response.

Thank you very much,

Christine Woodhouse
250-387-7950

Report Transmission Cover Page

Bill To: City of Surrey	Project:	Lot ID: 800588
Report To: City of Surrey	ID:	Control Number: A198117
14245 - 56 Avenue	Name:	Date Received: Apr 28, 2011
Surrey, BC, Canada	Location:	Date Reported: May 5, 2011
V3X 3A2	LSD:	Report Number: 1427889
Attn: Stacey Thomson	P.O.:	
Sampled By: Stacey	Acct code:	
Company: COS		

Contact & Affiliation	Address	Delivery Commitments
Stacey Thomson	14245 - 56 Avenue	On [Lot Verification] send
City of Surrey - Engineering	Surrey, British Columbia V3X 3A2	(COA) by Email - Single Report
	Phone: (604) 591-4321	On [Report Approval] send
	Fax: (604) 591-8693	(COC, Test Report) by Email - Merge Reports
	Email: sthomson@surrey.ca	On [Lot Approval and Final Test Report Approval] send
		(Invoice) by Email - Single Report

Notes To Clients:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

The information contained on this and all other pages transmitted, is intended for the addressee only and is considered confidential.
If the reader is not the intended recipient, you are hereby notified that any use, dissemination, distribution or copy of this transmission is strictly prohibited.
If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.

Sample Custody

Bill To: City of Surrey	Project:	Lot ID: 800588
Report To: City of Surrey	ID:	Control Number: A198117
14245 - 56 Avenue	Name:	Date Received: Apr 28, 2011
Surrey, BC, Canada	Location:	Date Reported: May 5, 2011
V3X 3A2	LSD:	Report Number: 1427889
Attn: Stacey Thomson	P.O.:	
Sampled By: Stacey	Acct code:	
Company: COS		

Sample Disposal Date: June 04, 2011

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the top of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	\$ 2.50 per sample
Storage for an additional 60 days	\$ 5.00 per sample
Storage for an additional 90 days	\$ 7.50 per sample

☐ Return Sample, collect, to the address below via:

☐ Greyhound

☐ DHL

☐ Purolator

☐ Other (specify) _____

Name _____

Company _____

Address _____

Phone _____

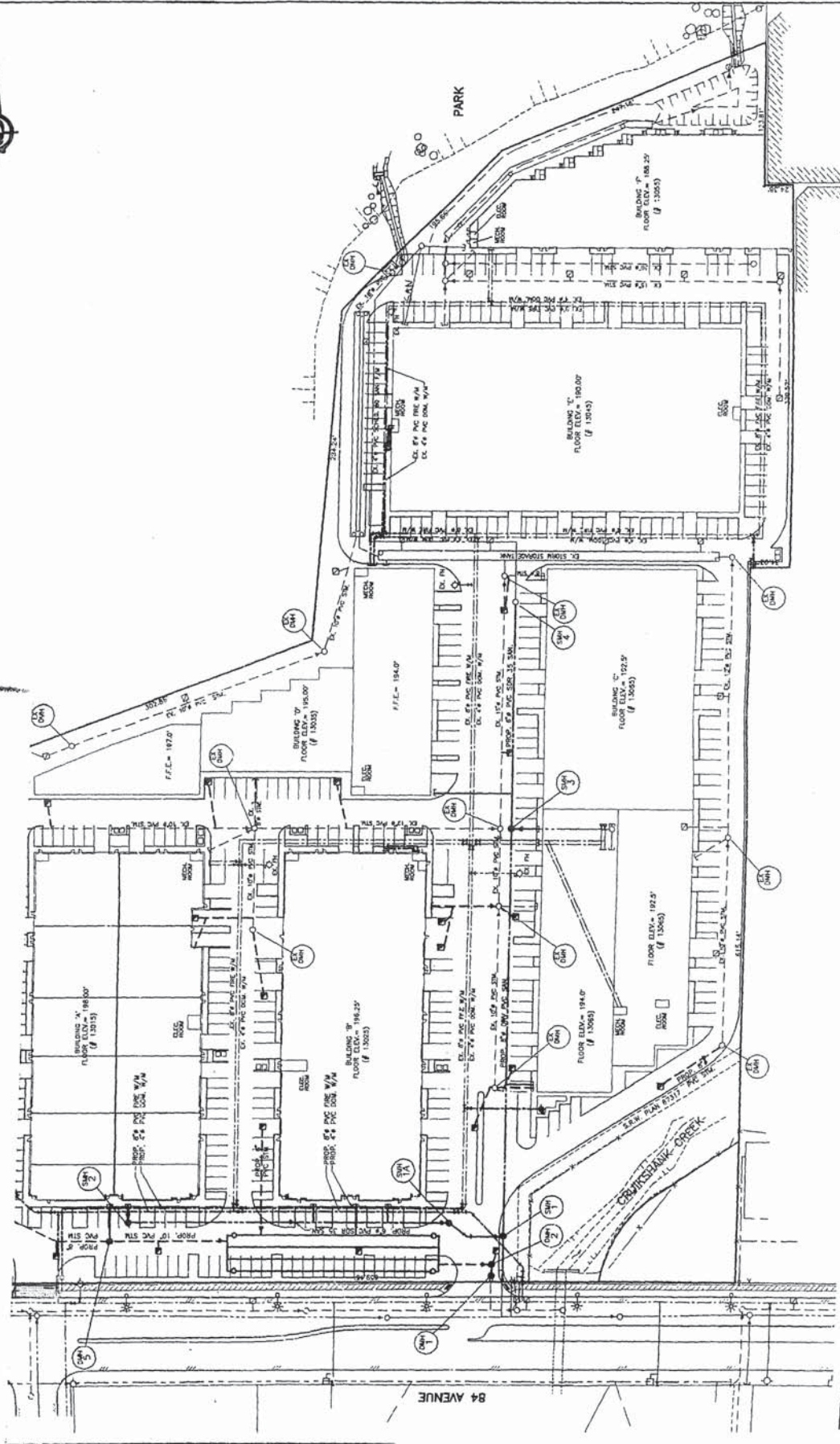
Fax _____

Signature _____

2. BEDDING SHALL BE 18" OF 3" MAXIMUM SIZE AGGREGATE AND SURROUNDING MATERIAL AS PER M.C. 2-2.7.1 SECTION 0228.01 ITEM 1.
3. BACKFILL SHALL BE SORTED GRANULAR FILL (M.C. 2-2.7.1) AS PER M.C. 2-2.7.3 SECTION 0228.01 ITEM 2. BACKFILL SHALL BE COMPACTED TO THE SPECIFIED PROCTOR DENSITY.
4. ALL MANHOLES SHALL BE 1050mm UNLESS NOTED OTHERWISE.
5. ALL C/P FROM ELEVATIONS ARE TO BE 0.00 FEET UNLESS NOTED OTHERWISE. THE FINISHED GRADE ELEVATIONS SHOWN ON THE GRADING PLAN.
6. ALL RETAINING WALL FOUNDATION DRAINS TO BE 1" INTO PROPOSED STORM SEWERS.



027443
BUILDING PERMIT



CITY OF SURREY	
KEY PLAN	TITLE:
DEVELOPER: TEO DEVELOPMENT LTD. & COLSON VIEW DEVELOPMENT CORP. 100-1100 80 AVE. SURREY, B.C. V3W 3J2 TEL: 604-273-1111 FAX: 604-273-5859	
H.Y. ENGINEERING LTD.	
LEGAL DESCRIPTION: LOT 1, SECTION 28, TOWNSHIP 2, R1S, DISTRICT 20, SURREY, B.C. 71.5, 017-643-000 EXAMINER: 23016	
REVISIONS: NO. 15-01 GENERAL NOTES, SANITARY & WATER REVISIONS 24-03 REV. WATER MAIN, 07 & 08 DETENTION POND	APPROVED FOR THE CITY OF SURREY DATE: 15-01-2011 BY: [Signature]

Analytical Report

Bill To: City of Surrey
Report To: City of Surrey
14245 - 56 Avenue
Surrey, BC, Canada
V3X 3A2
Attn: Stacey Thomson
Sampled By: Stacey
Company: COS

Project:
ID:
Name:
Location:
LSD:
P.O.:
Acct code:

Lot ID: **800588**
Control Number: A198117
Date Received: Apr 28, 2011
Date Reported: May 5, 2011
Report Number: 1427889

		Reference Number	800588-1	800588-2		
		Sample Date	Apr 28, 2011	Apr 28, 2011		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	#1 W of 13055 84th Ave.	#2 E of 13055 84th Ave.		
		Matrix	Water	Water		
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Chromium (VI)		mg/L	<0.005	0.289		0.005
Chromium (III)	Dissolved	mg/L	<0.005	<0.005		
Metals Dissolved						
Chromium	Dissolved	mg/L	<0.0004	0.2880		0.0004
Routine Water						
pH	at 25 °C		6.98	7.03		

Approved by:



Aaron Zentner, B.Sc., P.Chem.
Senior Account Manager



Methodology and Notes

Bill To: City of Surrey
Report To: City of Surrey
14245 - 56 Avenue
Surrey, BC, Canada
V3X 3A2
Attn: Stacey Thomson
Sampled By: Stacey
Company: COS

Project:
ID:
Name:
Location:
LSD:
P.O.:
Acct code:

Lot ID: **800588**
Control Number: A198117
Date Received: Apr 28, 2011
Date Reported: May 5, 2011
Report Number: 1427889

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water	APHA	* pH - Electrometric Method, 4500-H+ B	02-May-11	Exova Surrey
Chromium (VI) in water	APHA	* Colorimetric Method, 3500-Cr B	29-Apr-11	Exova Surrey
Trace Metals (dissolved) in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	02-May-11	Exova Surrey

** Reference Method Modified*

References

APHA Standard Methods for the Examination of Water and Wastewater
US EPA US Environmental Protection Agency Test Methods

Comments:

- pH analysis was performed past the recommended holding time of 15 minutes from sample collection.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Wednesday, May 11, 2011 3:03 PM
To: Woodhouse, Christine A ENV:EX
Subject: FW: Estimate Note Precision Plating
Attachments: 9 Precision Plating Chromic Acid Spill.docx

Suggested amendments shown in attachment. Please contact me if you have any further questions.

Harold Riedler
*Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca*

From: Woodhouse, Christine A ENV:EX
Sent: Wednesday, May 11, 2011 2:14 PM
To: Riedler, Harold ENV:EX
Subject: Estimate Note Precision Plating

Hi Harold,

Here is the file again, from another source. Identical to the previous file I sent. Hopefully one will open correctly – please tell me if it doesn't.

Thank you
Christine

Pages 397 through 399 redacted for the following reasons:

s.13

Riedler, Harold ENV:EX

From: Barton, Shawn [SBarton@hazco.com]
Sent: Thursday, May 12, 2011 12:02 PM
To: Sunit Bector; 'alfmarchi@paragonrealty.ca'; precisionplating@gmail.com
Cc: Riedler, Harold ENV:EX
Subject: Interim Storage of Waste Materials in Ste. 102, 13045 84th Ave, Surrey, BC - Ex> DGIR100134
Attachments: 034.JPG
Importance: High

Sunit;

Further to conversations of 05/12/11 between Hazco (Barton), Affinity Manufacturing (Bector) and Precision Plating (Stankovic), an issue has arisen with respects to ownership and responsibility for management of the containerized waste currently being stored in Unit 102, owned by Affinity. Review of the events and a discussion with Ministry of Environment (Reidler) have yielded the following facts:

- 1) Waste materials held in containerized storage in Unit 102 was collected by Hazco from unit 101, from both potentially compromised tanks and from subfloor containment areas to prevent further release of materials within unit 101. This was discussed and agreed upon by Ministry of Environment, Surrey Fire Department, and Paragon. Hazco was retained at this time by Paragon to facilitate the work. This material was catalogued corresponding to the source containment vessels or areas by Hazco, labeled with content description and affixed with TDG Class labels as per TDG Regulations. Additionally, waste material that was collected by Precision staff at the outset of the incident (9 Barrels- see attached Photo #34) and stored on the paved apron immediately north of unit 101 bay door were transferred to this location for the same reasons.
- 2) No materials have been collected to the containers in presently in unit 102 from units other than 101.
- 3) Paragon (A. Marchi) was advised by the Ministry that this material was to be secured and held on an interim basis in a unit other than 101 to protect from damage and/or further releases, and that management of this material was to be required at some point. Paragon acknowledged this.
- 4) Precision indicated to Ministry Representative that some of the material retained value to him as a recoverable, useable asset. Ministry advised Precision that an indication of which specific containers they wanted to salvage would be required. No such information has been received by either the Ministry or Hazco at this time.
- 5) Neither Precision nor Paragon has been charged for transport or disposal of these materials. Paragon, under Hazco job number 2D-4300-134 was charged for costs associated with the transfer of the materials into UN rated containers and for the containers.

Based upon the above points it is suggested that Affinity, as the owner of unit 102 and not the responsible party in this incident, make immediate contact with Paragon as the Strata Management to discuss options for removal of these containers from unit 102 and that discussions regarding ownership and responsibility for the security and management of such containers should take place between Paragon and Precision.

Please feel free to contact the undersigned for additional information should you so require.

Regards,

HAZCO Environmental Services, A CCS Company
13511 Vulcan Way
Richmond, BC V6V 1K4

604.214.7000 Direct

s.22

604.214.7017 Fax
sbarton@hazco.com

www.hazco.com

This email and any files transmitted with it are solely intended for the use of the addressee(s) and may contain information that is confidential and privileged. If you receive this email in error, please advise us by return email immediately. Please also disregard the contents of the email, delete it and destroy any copies immediately.

CCS Corporation and its subsidiaries do not accept liability for the views expressed in the email or for the consequences of any malicious code that may be transmitted with this email.

This email is also subject to copyright. No part of it should be reproduced, adapted or transmitted without the written consent of the copyright owner.

CCS-06-01-2009



Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Friday, May 13, 2011 9:52 AM
To: Woodhouse, Christine A ENV:EX
Subject: RE: Esimate Note Precision Plating

Well said. Harold.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Woodhouse, Christine A ENV:EX
Sent: Thursday, May 12, 2011 9:49 AM
To: Riedler, Harold ENV:EX
Cc: Knox, Graham ENV:EX
Subject: RE: Esimate Note Precision Plating

Thank you very much for this, Harold. I appreciate your review of the note and edits. It gives me confidence that the note will be accurate!

s.13

From: Riedler, Harold ENV:EX
Sent: Wednesday, May 11, 2011 3:03 PM
To: Woodhouse, Christine A ENV:EX
Subject: FW: Esimate Note Precision Plating

Suggested amendments shown in attachment. Please contact me if you have any further questions.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Woodhouse, Christine A ENV:EX
Sent: Wednesday, May 11, 2011 2:14 PM

To: Riedler, Harold ENV:EX

Subject: Esimate Note Precision Plating

Hi Harold,

Here is the file again, from another source. Identical to the previous file I sent. Hopefully one will open correctly – please tell me if it doesn't.

Thank you
Christine

Riedler, Harold ENV:EX

From: Sunit Bector [sunit@machining.ca]
Sent: Friday, May 13, 2011 11:05 AM
To: Barton, Shawn
Cc: alfmarchi@paragonrealty.ca; precisionplating@gmail.com; Riedler, Harold ENV:EX
Subject: Re: Interim Storage of Waste Materials in Ste. 102, 13045 84th Ave, Surrey, BC - Ex> DGIR100134

Hi Alffred,

Could you please advise whats happening, I need these removed ASAP

On Thu, May 12, 2011 at 12:01 PM, Barton, Shawn <SBarton@hazco.com> wrote:

Sunit;

Further to conversations of 05/12/11 between Hazco (Barton), Affinity Manufacturing (Bector) and Precision Plating (Stankovic), an issue has arisen with respects to ownership and responsibility for management of the containerized waste currently being stored in Unit 102, owned by Affinity. Review of the events and a discussion with Ministry of Environment (Reidler) have yielded the following facts:

- 1) Waste materials held in containerized storage in Unit 102 was collected by Hazco from unit 101, from both potentially compromised tanks and from subfloor containment areas to prevent further release of materials within unit 101. This was discussed and agreed upon by Ministry of Environment, Surrey Fire Department, and Paragon. Hazco was retained at this time by Paragon to facilitate the work. This material was catalogued corresponding to the source containment vessels or areas by Hazco, labeled with content description and affixed with TDG Class labels as per TDG Regulations. Additionally, waste material that was collected by Precision staff at the outset of the incident (9 Barrels- see attached Photo #34) and stored on the paved apron immediately north of unit 101 bay door were transferred to this location for the same reasons.
- 2) No materials have been collected to the containers in presently in unit 102 from units other than 101.
- 3) Paragon (A. Marchi) was advised by the Ministry that this material was to be secured and held on an interim basis in a unit other than 101 to protect from damage and/or further releases, and that management of this material was to be required at some point. Paragon acknowledged this.
- 4) Precision indicated to Ministry Representative that some of the material retained value to him as a recoverable, useable asset. Ministry advised Precision that an indication of which specific containers they wanted to salvage would be required. No such information has been received by either the Ministry or Hazco at this time.
- 5) Neither Precision nor Paragon has been charged for transport or disposal of these materials. Paragon, and Hazco job number 2D-4300-134 was charged for costs associated with the transfer of the materials into UN rated containers and for the containers

Based upon the above points it is suggested that Affinity, as the owner of unit 102 and not the responsible party in this incident, make immediate contact with Paragon as the Strata Management to discuss options for removal of these containers from unit 102 and that discussions regarding ownership and responsibility for the security and management of such containers should take place between Paragon and Precision.

Please feel free to contact the undersigned for additional information should you so require.

Regards,

Shawn Barton, R.S.O. | Project Manager, Emergency Response & Confined Space

HAZCO Environmental Services, A CCS Company

13511 Vulcan Way

Richmond, BC V6V 1K4

604.214.7000 Direct

s.22

604.214.7017 Fax

sbarton@hazco.com

www.hazco.com

This email and any files transmitted with it are solely intended for the use of the addressee(s) and may contain information that is confidential and privileged. If you receive this email in error, please advise us by return email immediately. Please also disregard the contents of the email, delete it and destroy any copies immediately.

CCS Corporation and its subsidiaries do not accept liability for the views expressed in the email or for the consequences of any malicious code that may be transmitted with this email.

This email is also subject to copyright. No part of it should be reproduced, adapted or transmitted without the written consent of the copyright owner.

CCS-06-01-2009

Riedler, Harold ENV:EX

From: Riedler, Harold ENV:EX
Sent: Monday, May 30, 2011 2:57 PM
To: 'Ricardo de Guzman'
Subject: RE: Strata Plan LMS 4521 o/a Golden Gate Business Park

Our File: DGIR 110134

Hello, Ricardo.

I have not created a report in regard to progress achieved in addressing pollution issues for this property. I suggest that this information would best be acquired through the Strata Council and Property Management Company, as BC Ministry of Environment left the site in the hands of the strata council and property manager to ensure that they comply with Fire Department, City of Surrey Engineering, Worksafe BC, Fraser Health Authority requirements.

The following, I still needs to be addressed by the strata members:

- 1) The spilled hazardous material from the Precision Plating fire had entered the storm drainage system on strata owned property. The site storm drainage system may have substantial contamination that needs to be assessed and cleaned-up.
- 2) The contaminated run-off from the fire had caused hazardous material contaminated fire suppression water to discharge to the creek. An environmental consultant was retained by the strata to conduct fate and effect assessment with sampling.
- 3) There is a storm drainage surge pond on the strata owned property that is intended to serve as a settling pond to settle uncontaminated storm water with surface runoff before allowing this part of the strata site drainage to prevent a discharge of solids to the creek on the North end of the property. We have received a report of the release of a solvent or fuel-like material from the sediment within this pond when disturbed. It is clear that, not only has someone discharged petroleum-like hydrocarbon material that has caused this contamination, large quantities of process waste water containing high concentrations of silt have been channelled to this storm system and to the creek.
- 4) Other areas of the strata owned property may have been contaminated from the fire, including the area where hydro equipment vault that is situated within the pool of heavy metal contaminated fire suppression water when storm drains had to be covered to prevent this highly toxic contaminated water from discharging to the creek. Also, it is unclear if there was any opportunity for contaminated fire suppression water to have seeped between storm drainage pipe, that may not have sealed joints, and thus causing infiltration and contamination of the ground on strata owned property.

I have yet to follow-up in regard to the issues presented, above. However, I hope this provides some scope as to the issues that remain in our scope to be addressed.

Please contact me if you have any further questions in this regard.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Ricardo de Guzman [<mailto:ricardo@tsmckenzie.ca>]
Sent: Monday, May 30, 2011 1:05 PM
To: Riedler, Harold ENV:EX
Subject: Strata Plan LMS 4521 o/a Golden Gate Business Park

Hi Harold,

You'll recall we met when there was a chemical spill at one of the units back in April this year. I'm the insurance broker who is managing the insurance program for the entire Strata property.

I'm hoping you can help me out with a bit of information here Harold. The insurance for the Strata is coming up for renewal shortly and I need to address the pollution hazard at the property.

Is there a report currently available that would outline the current state of affairs at this property with respect to the pollution hazard?

Thank you in advance for your time Harold.

Best regards,

Ricardo de Guzman, FCIP CRM | Manager | TS McKenzie Insurance Agencies Ltd.
s.22 | ricardo@tsmckenzie.ca | www.tsmckenzie.ca

Riedler, Harold ENV:EX

From: Ricardo de Guzman [ricardo@tsmckenzie.ca]
Sent: Monday, May 30, 2011 3:26 PM
To: Riedler, Harold ENV:EX
Subject: RE: Strata Plan LMS 4521 o/a Golden Gate Business Park

Thanks Harold - much appreciated.

Regards,
Ricardo

From: Riedler, Harold ENV:EX [<mailto:Harold.Riedler@gov.bc.ca>]
Sent: Monday, May 30, 2011 2:57 PM
To: 'Ricardo de Guzman'
Subject: RE: Strata Plan LMS 4521 o/a Golden Gate Business Park

Our File: DGIR 110134

Hello, Ricardo.

I have not created a report in regard to progress achieved in addressing pollution issues for this property. I suggest that this information would best be acquired through the Strata Council and Property Management Company, as BC Ministry of Environment left the site in the hands of the strata council and property manager to ensure that they comply with Fire Department, City of Surrey Engineering, Worksafe BC, Fraser Health Authority requirements.

The following, I still needs to be addressed by the strata members:

- 1) The spilled hazardous material from the Precision Plating fire had entered the storm drainage system on strata owned property. The site storm drainage system may have substantial contamination that needs to be assessed and cleaned-up.
- 2) The contaminated run-off from the fire had caused hazardous material contaminated fire suppression water to discharge to the creek. An environmental consultant was retained by the strata to conduct fate and effect assessment with sampling.
- 3) There is a storm drainage surge pond on the strata owned property that is intended to serve as a settling pond to settle uncontaminated storm water with surface runoff before allowing this part of the strata site drainage to prevent a discharge of solids to the creek on the North end of the property. We have received a report of the release of a solvent or fuel-like material from the sediment within this pond when disturbed. It is clear that, not only has someone discharged petroleum-like hydrocarbon material that has caused this contamination, large quantities of process waste water containing high concentrations of silt have been channelled to this storm system and to the creek.
- 4) Other areas of the strata owned property may have been contaminated from the fire, including the area where hydro equipment vault that is situated within the pool of heavy metal contaminated fire suppression water when storm drains had to be covered to prevent this highly toxic contaminated water from discharging to the creek. Also, it is unclear if there was any opportunity for contaminated fire suppression water to have seeped between storm drainage pipe, that may not have sealed joints, and thus causing infiltration and contamination of the ground on strata owned property.

I have yet to follow-up in regard to the issues presented, above. However, I hope this provides some scope as to the issues that remain in our scope to be addressed.

Please contact me if you have any further questions in this regard.

Harold Riedler
Senior Emergency Response Officer
Coastal Region - Surrey Office
Environmental Emergencies Program
Ministry of Environment
Phone: 604-582-5278
harold.riedler@gov.bc.ca

From: Ricardo de Guzman [<mailto:ricardo@tsmckenzie.ca>]
Sent: Monday, May 30, 2011 1:05 PM
To: Riedler, Harold ENV:EX
Subject: Strata Plan LMS 4521 o/a Golden Gate Business Park

Hi Harold,

You'll recall we met when there was a chemical spill at one of the units back in April this year. I'm the insurance broker who is managing the insurance program for the entire Strata property.

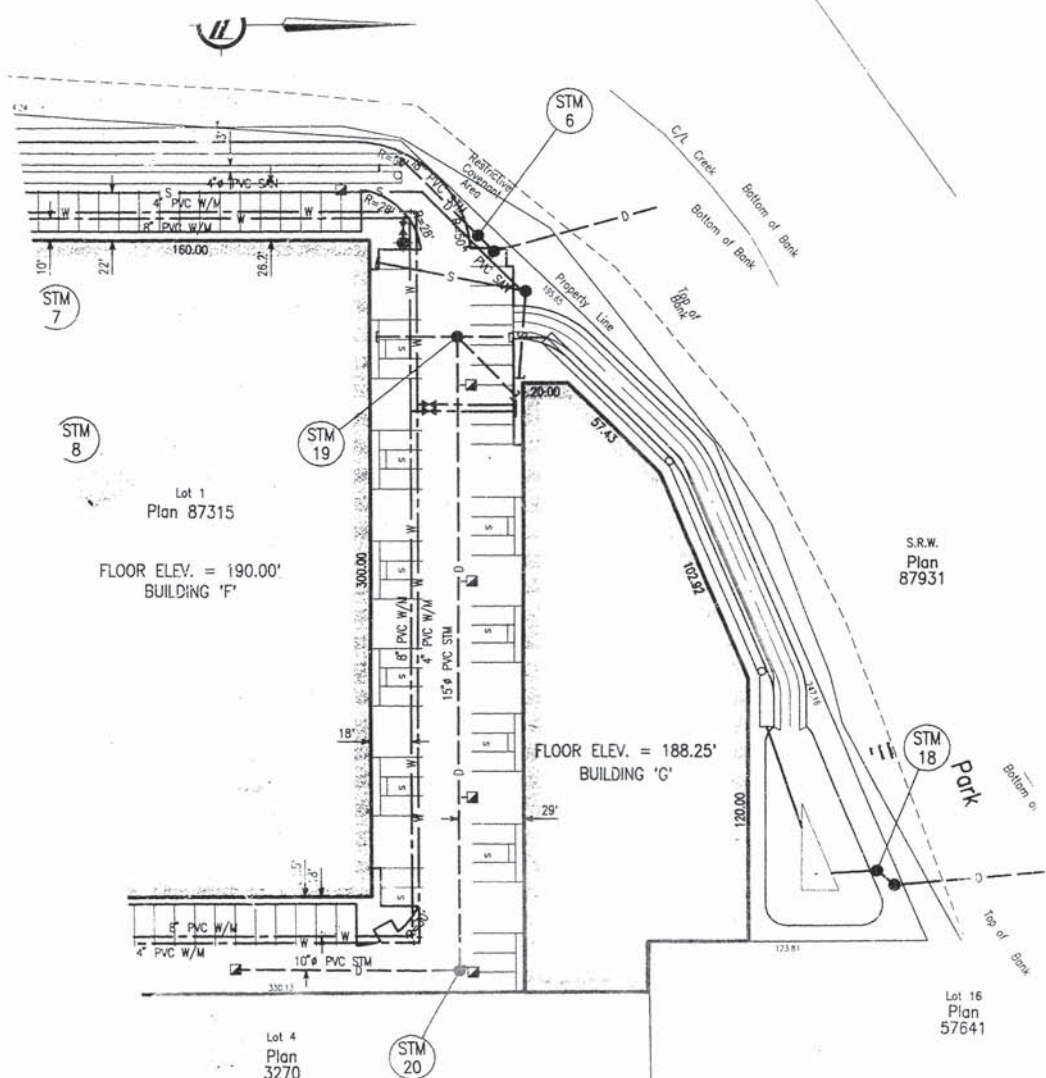
I'm hoping you can help me out with a bit of information here Harold. The insurance for the Strata is coming up for renewal shortly and I need to address the pollution hazard at the property.

Is there a report currently available that would outline the current state of affairs at this property with respect to the pollution hazard?

Thank you in advance for your time Harold.

Best regards,

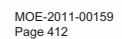
Ricardo de Guzman, FCIP CRM | Manager | TS McKenzie Insurance Agencies Ltd.
s.22 | ricardo@tsmckenzie.ca | www.tsmckenzie.ca

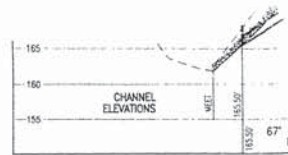


POWER TEK DEVELOPMENTS INC.
 UNIT E - 7675 132nd STREET, SURREY B.C., V3W 4M8

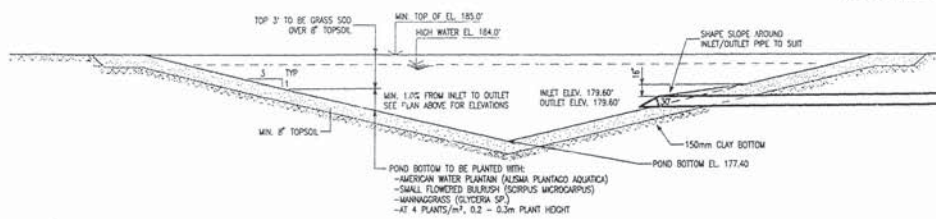
Scale: 1" = 40'
 Drawn: S.T.
 City Project No. 7000

KEY PLAN

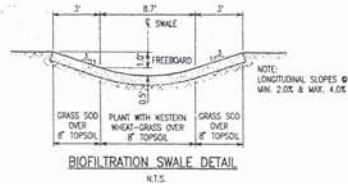




PROFILE -



POND CROSS SECTION DETAILS
N.T.S.

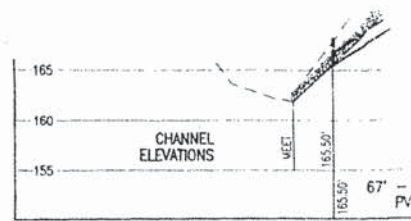


BIOFILTRATION SWALE DETAIL
N.T.S.

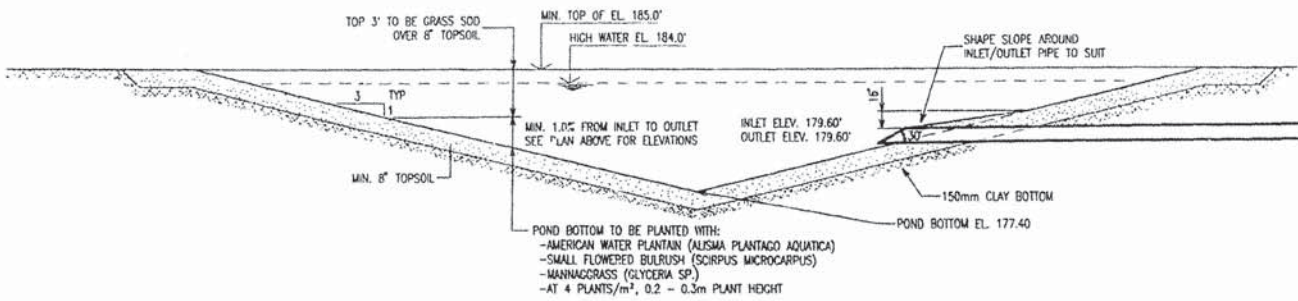
EXIST. TREES
TO BE RETAINED

PRECAST CONCRETE
HEADWALL STRUCTURE
TO MMS-513

STORM FLOW
CONTROL M.H. #6
(SEE SHEET 9
FOR DETAILS)

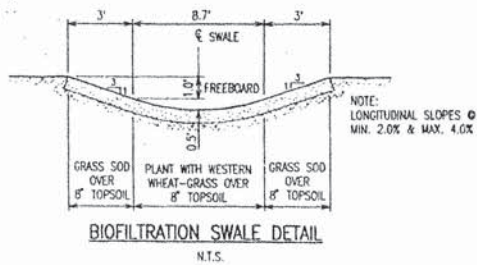


PROFILE -



POND CROSS SECTION DETAILS

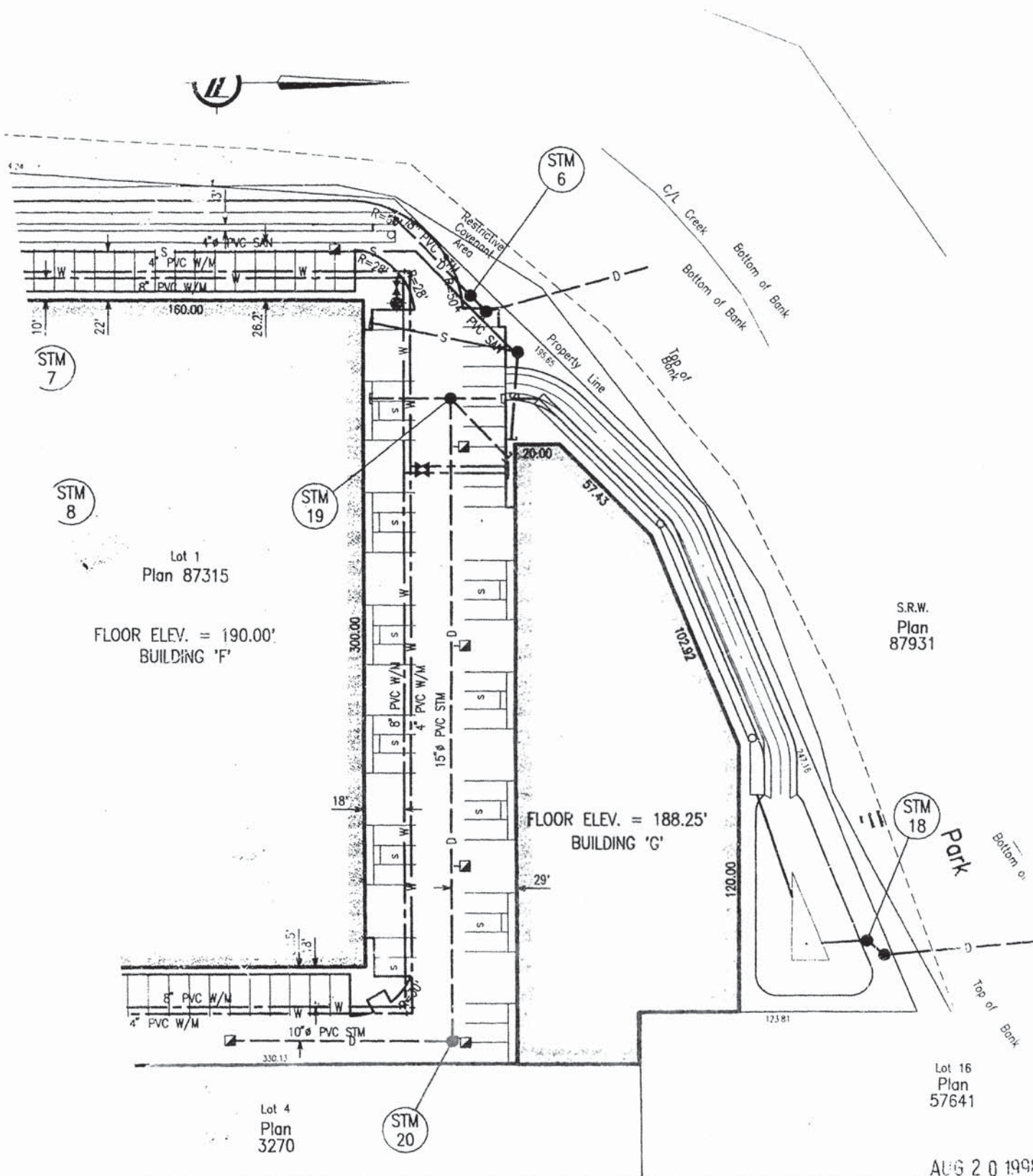
N.T.S.



EXIST. TREES TO BE RETAINED

PRECAST CONCRETE HEADWALL STRUCTURE TO MMS-S13

STORM FLOW CONTROL M.H. #6 (SEE SHEET 9 FOR DETAILS)

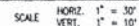
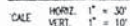


POWER TEK DEVELOPMENTS INC.
UNIT E - 7675 132nd STREET, SURREY B.C., V3W 4M8

Scale	1" = 40'	City Project No.
Drawn	S.T.	7007

AUG 20 1998

KEY PLAN



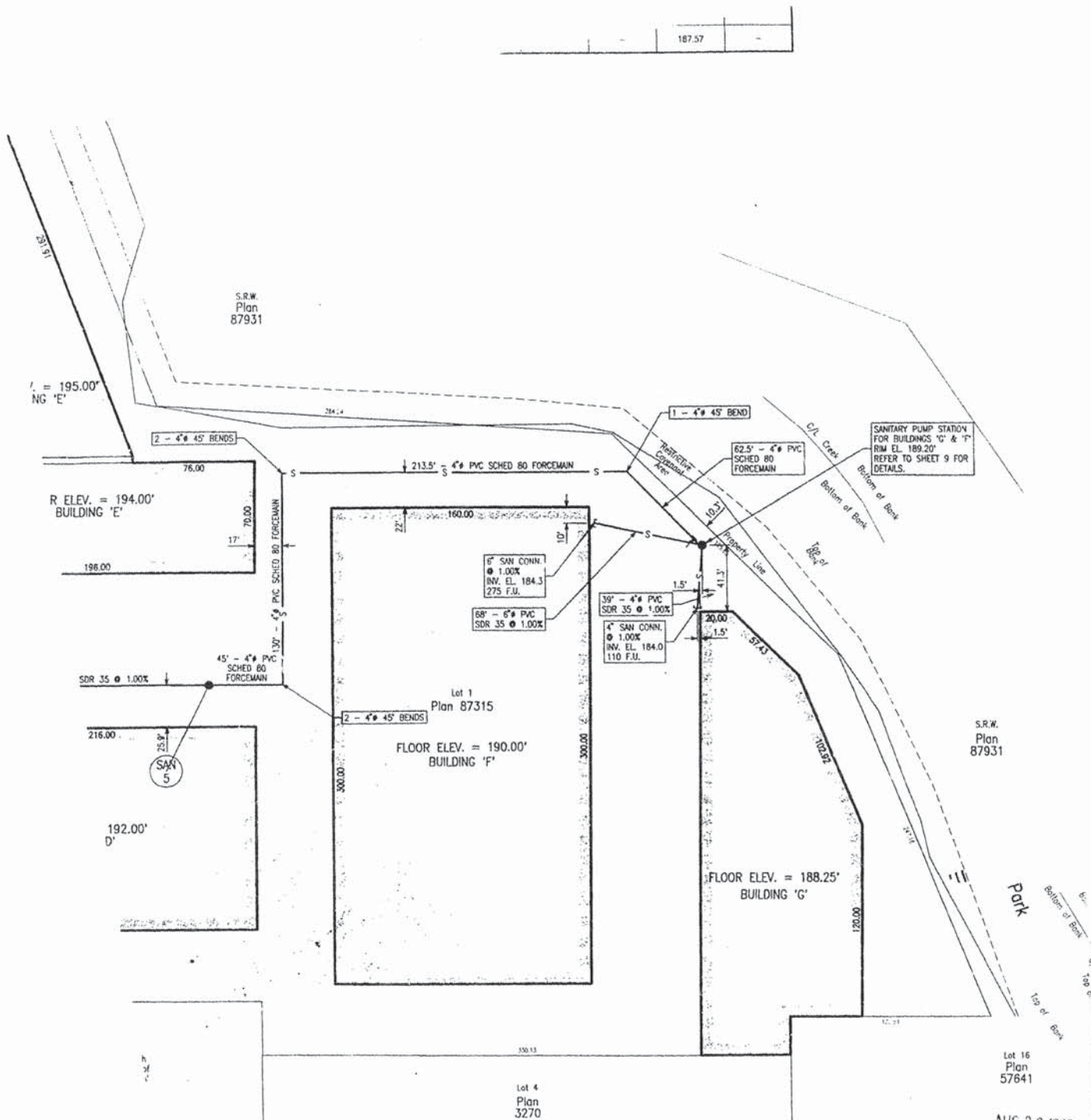


PROPERTY MANAGEMENT & COMMERCIAL REAL ESTATE SERVICES
101 - 5550 - 152 STREET, SURREY, BC V3S 5J9
TEL: (604) 576-3868 FAX: (604) 576-3813
Email: admin@paragonrealty.ca

March 26, 2009

GOLDEN GATE INDUSTRIAL PARK

It was advised that at the Council Meeting on Tuesday March 24 2009.



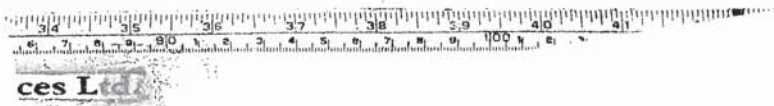
Consulting
 373W 3K3
 473-96-8853

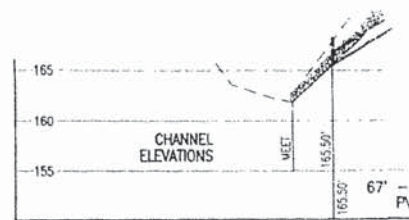


POWER TEK DEVELOPMENTS INC.
 UNIT E - 7675 132nd STREET, SURREY B.C. V3W 4M8
 → **SANITARY SEWER** ←
 DEVELOPMENT NORTH OF 84 AVENUE WEST OF 132 STREET
 SURREY, B.C.

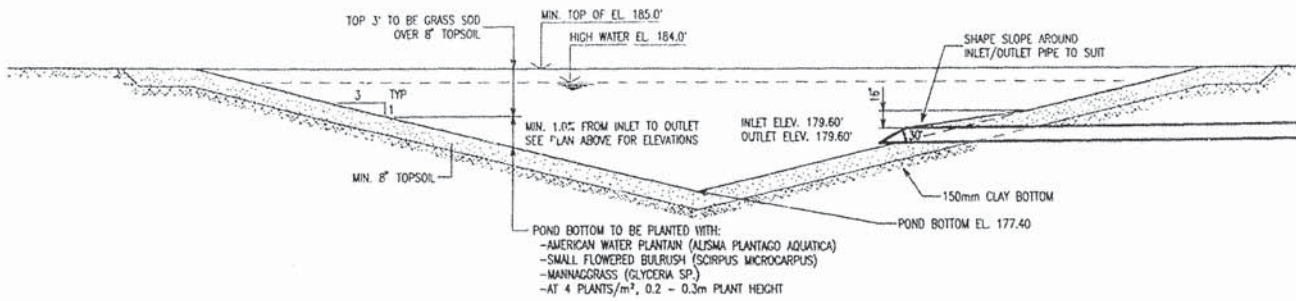
Scale	1" = 40'
Drawn	S.T.
Checked	
Designed	V.S.
Observed	H.V.
Approved	
City Project No.	7897-0300-00
City Drawing No.	
Job No.	2111-01501-0
Date	JULY, 1998

AUG 20 1998
 Drawing No. **7**
 of 9
 Project



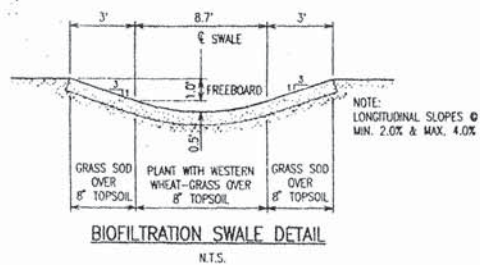


PROFILE -



POND CROSS SECTION DETAILS

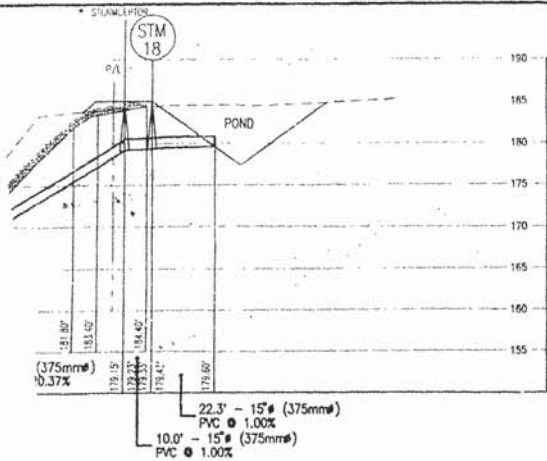
N.T.S.



EXIST. TREES TO BE RETAINED

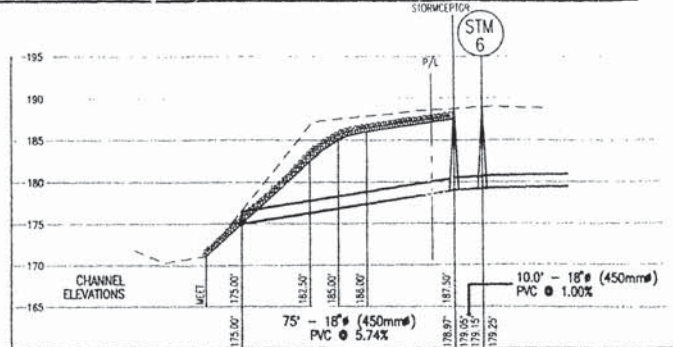
PRECAST CONCRETE HEADWALL STRUCTURE TO MMS-S13

STORM FLOW CONTROL M.H. #6 (SEE SHEET 9 FOR DETAILS)



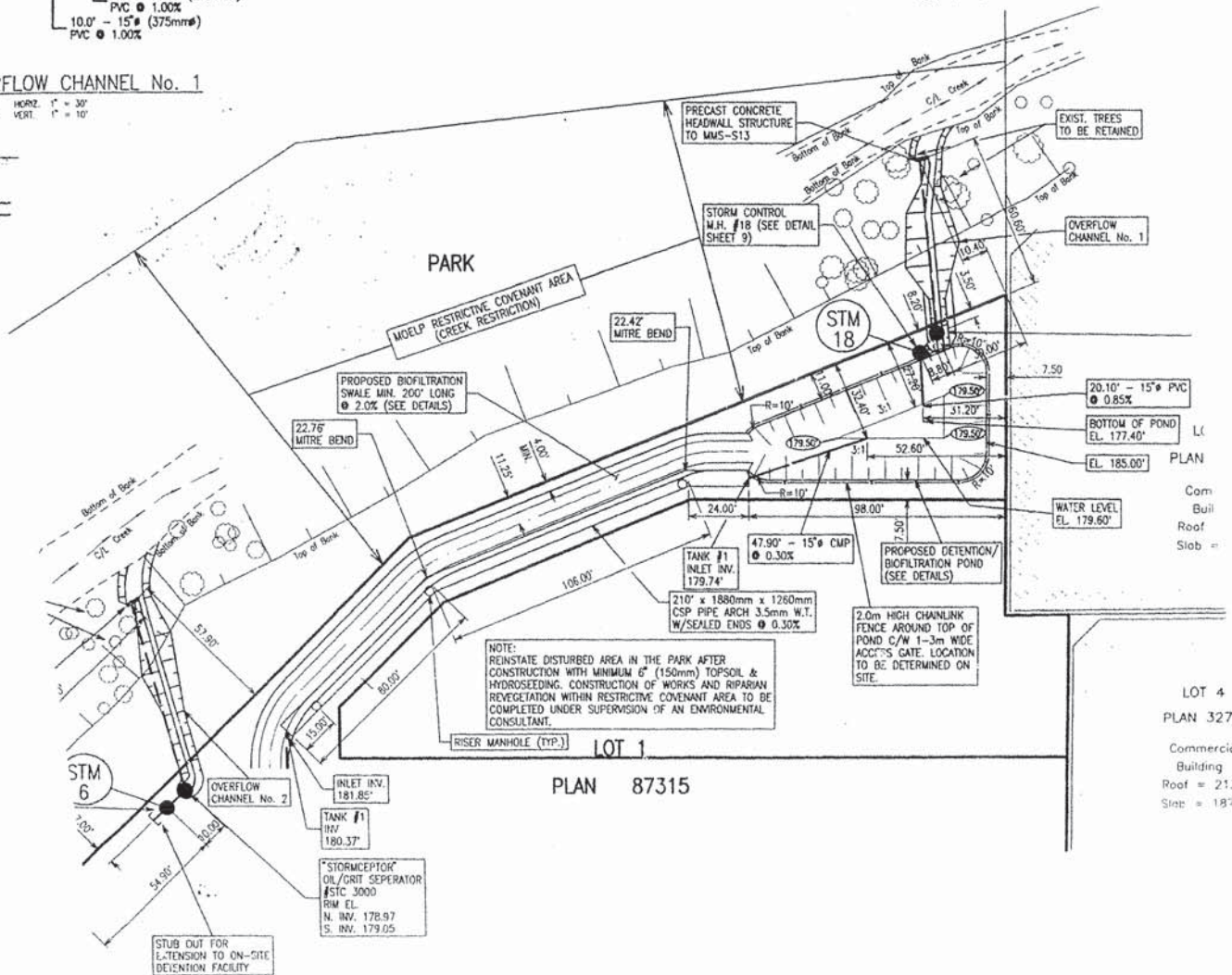
OVERFLOW CHANNEL No. 1

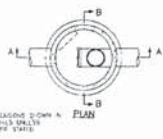
SCALE: HORIZ. 1" = 30'
VERT. 1" = 10'



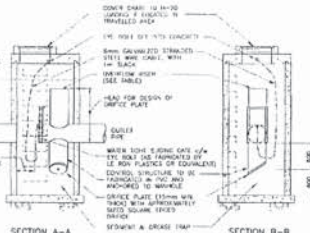
PROFILE - OVERFLOW CHANNEL No. 2

SCALE: HORIZ. 1" = 30'
VERT. 1" = 10'

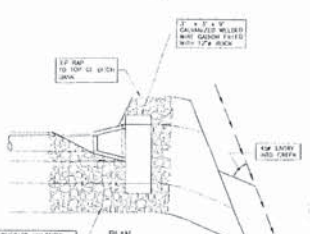




NOTE:
ALL DIMENSIONS SHOWN ARE
UNLESS OTHERWISE SPECIFIED
(UNLESS NOTED)



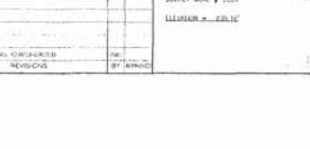
SECTION A-A



SECTION B-B



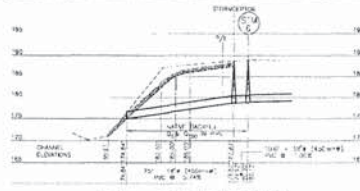
PLAN



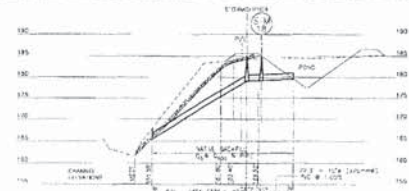
PROFILE

STM M.H. 8
DRAINAGE AREA = 2.37 ha
DESIGN FLOW Q₁₀ = 0.008 m³/s
DESIGN FLOW Q₁ = 0.008 m³/s
DESIGN FLOW Q₂ = 0.008 m³/s
DESIGN FLOW Q₃ = 0.008 m³/s
DESIGN FLOW Q₄ = 0.008 m³/s
DESIGN FLOW Q₅ = 0.008 m³/s
DESIGN FLOW Q₆ = 0.008 m³/s
DESIGN FLOW Q₇ = 0.008 m³/s
DESIGN FLOW Q₈ = 0.008 m³/s
DESIGN FLOW Q₉ = 0.008 m³/s
DESIGN FLOW Q₁₀ = 0.008 m³/s

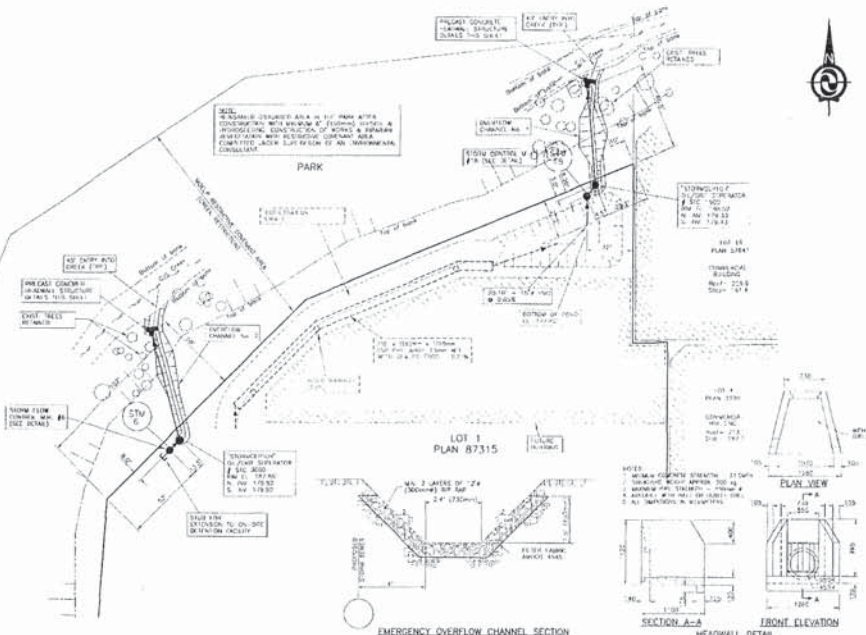
STM M.H. 19
DRAINAGE AREA = 1.04 ha
DESIGN FLOW Q₁₀ = 0.008 m³/s
DESIGN FLOW Q₁ = 0.008 m³/s
DESIGN FLOW Q₂ = 0.008 m³/s
DESIGN FLOW Q₃ = 0.008 m³/s
DESIGN FLOW Q₄ = 0.008 m³/s
DESIGN FLOW Q₅ = 0.008 m³/s
DESIGN FLOW Q₆ = 0.008 m³/s
DESIGN FLOW Q₇ = 0.008 m³/s
DESIGN FLOW Q₈ = 0.008 m³/s
DESIGN FLOW Q₉ = 0.008 m³/s
DESIGN FLOW Q₁₀ = 0.008 m³/s



PROFILE - OVERFLOW CHANNEL No. 2



PROFILE - OVERFLOW CHANNEL No. 1



EMERGENCY OVERFLOW CHANNEL SECTION

HEADWALL DETAIL

<p>REVISIONS</p> <p>DATE</p> <p>BY</p>	<p>REVISIONS</p> <p>DATE</p> <p>BY</p>	<p>LEGAL DESCRIPTION</p> <p>LOT 1, SECTION 25, TOWNSHIP 2, R.W.D., PLAN 87315</p>	<p>H.Y. ENGINEERING LTD.</p> <p>100-10000 100 STREET, S.W., VANCOUVER, B.C. V6P 6E6</p> <p>TEL: 604-271-1111</p> <p>FAX: 604-271-1112</p> <p>WWW.HYENGINEERING.COM</p>	<p>DEVELOPER: TEO DEVELOPMENT LTD. & GOLDEN VIEW DEVELOPMENT CORP.</p> <p>100-10000 100 STREET, S.W., VANCOUVER, B.C. V6P 6E6</p> <p>TEL: 604-271-1111</p> <p>FAX: 604-271-1112</p> <p>WWW.HYENGINEERING.COM</p> <p>COMMERCIAL DEVELOPMENT LOCATED AT 13055 - 84 AVENUE, SURREY, B.C.</p>	<p>DATE: 10/10/2010</p> <p>SCALE: 1" = 30'</p> <p>PROJECT: 971250A-03</p> <p>REVISIONS:</p> <p>NO. 1</p> <p>DATE: 10/10/2010</p> <p>BY: JH</p> <p>DESCRIPTION: 971250A-03</p>	<p>CITY OF SURREY</p> <p>7897-0300-00</p> <p>SS-041-584</p> <p>971250A-03</p>
--	--	---	---	---	---	---