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FOSS PLATING COMPANY, INC
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

EPA CERCLA SECTION 104(e)
REQUEST FOR INFORMATION
April 11, 2014

EPA ID CAD 008278236

BOOK 3
APPENDIX G - N

JULY, 2014

RANDALL FOSS
CAROL FOSS MC CRACKEN

FOSS PLATING COMPANY
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

CERCLA Request for Information
BOOK 3
APPENDIX G-N

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G Closure of
Foss Plating Co

FOSS PLATING COMPANY, INC
SUMMARY OF CLOSURE ACTIVITY

Closure activity began immediately after operations stopped with a joint meeting between the City of Santa Fe Springs, LA County Sanitation (POTW) and DTSC. The initial closure plan was discussed.

The three agencies agreed that all above ground closure activity came under the oversight of the City of Santa Fe Springs. Wastewater disposal came under the oversight of the LA County Sanitation District, and below ground closure activity came under the oversight of DTSC.

ABOVE GROUND CLOSURE

The City of Santa Fe Springs have clear instructions of their requirements so that a detailed Above Ground Closure Plan was completed on October 19, 2005. Foss Plating then followed the plan, and completed above ground closure. A copy of this plan, along with details on completion, is attached.

The basic plan called for:

1. Treat all rinses, acids and cleaners for legal disposal to the POTW
2. Sell, give away or send for recycling and treatment all nickel and chrome solutions
3. Sell as much equipment as possible.
4. Sell metals, such as steel, copper, nickel, etc. for reuse or recycling
5. Legal disposal of all other items, sent by manifest.
6. Paint and refurbish the inside and outside of the building, for intended future use as industrial lease, or sale.

BELOW GROUND CLOSURE

Below ground closure has been much more problematic. DTSC required detailed plans for all ground testing, and for the resulting remediation. The plans must be prepared by outside consultants with certain engineering backgrounds. Progress has been very slow and very costly. Good consultants are expensive, and they have many clients to satisfy. Even though the plans have been prepared by experts, DTSC finds many problems that require rewrites to the plans. As a result, three years later we only have progressed through ground testing, and are currently submitting plans for the first remediation of the outside below ground clarifier tanks. We are hoping for approval and to complete this part of closure by the end of the year.

FOSS PLATING COMPANY
CLOSURE ACTIVITY LOG

October 14, 2005 – Last day plating

WEEK OF OCT 17-21, 2005

1. Pulled all nickel metal from anode bags. Washed and weighted
2. Oct 18: Sent by manifest 24644008 polishing dust and debris to US Ecology by way of Worldwide Recovery.
3. 10/19 Sold remaining chemicals, including partial bags/drums to Cal Tron
4. 10/19 Sold 1760 pounds nickel metal to RRD Environmental Services
5. 10/20 Sold major lab equipment to Pacific Plating Supply
6. Continued collecting nickel balls, kept in separate container for future sale
7. 10/20 Visit by Richard, SFS CUPA No problems noted
8. Disconnected all rectifiers and amp meters. Moved to separate areas, and began to clean and dust.

WEEK OF OCT 24-28, 2005

1. Continued cleaning, dusting all rectifiers and amp meters for possible sale
2. Began disconnecting all filters. Moved for cleaning, possible sale
3. Assembled all racks in one area
4. Began disassembling all cat-walks. Separate wood (RCRA), and cut up steel for disposal as scrap.
5. Began removing all plastic piping. Separate and outside wash all pipe used only for city water or air. If clean, these pipes were sent to regular trash
6. Kept plastic piping used for nickel, other chemicals
7. Began separating all scrap steel, copper wire, nickel balls, RCRA waste
8. Began sweeping up, area by area (as RCRA waste)
9. Started collecting copper bus bars

WEEK OF OCT 31-NOV 4, 2005

1. Further work collecting copper bus bars. Cleaned and separated by size
2. Further work separating copper wire, nickel balls, scrap steel, RCRA waste
3. Further work disassembling cat-walks.
4. Sold some scrap steel to Samuel Fair (Williams Recycling)
5. Further sweeping, inside and out (inside as RCRA waste)

WEEK OF NOV 7-11, 2005

1. Finished removing and cleaning the rest of the copper bars
2. 11-9 Sold 1600# #1 grade copper to Shreeji Plating & Coating
3. 11-9 Inspection by Georgia, Sanitation Districts of LA County. No problems noted Discussed plans to collect and test power wash rinsate.
4. Cleaned lab. Carol & Abel determined that small samples of treated chrome and sodium hydroxide (slight pH adjustment needed today) could go directly to

Week of Nov 7-11, 2005 cont.

5. Georgia, County Sanitation, came by to look. No problems noted
6. South Coast AQMD came by for annual inspection. Inspector did not know we were shut down. We showed him our shut down operations, plus the amp hour logs. No problems noted.
7. Sold scrap steel to Donald Earl Lee (boiler pipe, angle iron, misc.)
8. General sweeping and cleaning.

WEEK OF DEC 12-16, 2005

1. More power washing
2. More cleaning tanks
3. More general cleanup, outside and in
4. Major cleanup outside, all closure items now inside.
5. Discovered security breach in fenced yard that houses Hazardous Waste. This yard is shared with a neighbor, who is missing some items. Holes in the fence to be repaired or blocked.
6. Dec 15: Sold some titanium baskets, and copper to Highland Plating

WEEK OF DEC 19-23, 2005

1. More work on cleaning tanks, power washing
2. Dec 22: Sold more copper bars to EKCO Metals. Also sold some SS, and unclean lead.
3. Seeking appropriate vendor to safely and economically dispose of tanks
4. Work stalled until cleaned tanks can be moved off site

WEEK OF DEC 27-30, 2005

1. People looking at boiler
2. More work finding a vendor to dispose of tanks
3. December 29: Six tanks loaded and sent to Pomona Scrap Metals Inc. as scrap steel.
4. December 30: Two more tanks loaded and sent to Pomona Scrap as scrap steel

WEEK OF JAN 3-6, 2006

1. Richard Kallman, SFS Fire Department, came by in response to a phone call last week asking for clarification on how clean tanks need to be for shipment as scrap steel. Discussed requirements and suggestions with Ed.
2. Further triple wash of tanks, preparing for shipment offsite
3. Jan 4: Nottingham finally came to pick up 5 supersacks of FOO6 waste for shipment to World Resources in Arizona for recycling. See Manifest 24485375

WEEK OF JAN 9-13, 2006

1. Jan 9, 2005 RRD Environmental Services picked up 6 totes of chrome solution treatment and disposal in Texas. Transporter: Northstate Environmental. Roj accidentally took some of our paperwork. Mailed back by later in the week. See Manifest 3386531
2. John Matthews, consultant, came by to discuss work plan for below ground testing. His quote is under discussion by Foss Plating

Week of January 9-13, 2006 cont.

3. Agreement reached on vendor to remove and recycle scrap steel from tanks, etc. Major work this week recleaning tanks to meet vendor requirements.
2. Scrap steel to be placed inside tanks.
3. Clean up started in chrome plating area.
4. Continued training on separation of various wastes – plating waste with nickel, plating waste with chrome, scrap steel, scrap electrical, and RCRA waste, content to be determined.
5. Easy Translator finally working. Made and posted a number of in-house labels.

WEEK OF JAN 16-20, 2006

1. Jan 16: First roll-off for scrap steel, mostly tanks, arrived. To be filled daily and exchanged.
2. Jan 20: Received first payment from Adams Steel for the scrap steel, $467.86
3. Continued cleaning of tanks
4. Cleanup of floor in chrome plating area.
5. More (Wednesday and Friday) training (one on one) separation of nickel bearing and chrome bearing plating waste.
6. Swept around roll-off. Mostly rusty dust. Put in "to be identified" bin.
7. More cleanup in nickel plating area
8. Abel started emptying the clarifier pits, pumping sludge to sludge settler.
9. Began cleaning out trenches.

WEEKOF JAN 23-27, 2006

1. Continued activity cleaning tanks and sale as scrap metal
2. Updated the Security Plan to reflect closure activity. Numerous updated signs were posted: Prop 65, Wastewater Treatment Area, and Hazardous Waste Storage Area. in both Spanish and English.
3. Jan 26; Adams Steel picked up the last of the scrap steel for now. Two tanks left inside, five outside.
4. Swept entire outside loading area. Dust from scrap steel put in RCRA waste drum.
5. Ed, Martin and Jose started dismantling the strip area super structure. Girders to be cut up and sold as scrap steel.
6. Abel continues working on emptying clarifier pits and processing sludge

WEEK OF JAN 30-FEB 3, 2006

1. More work on dismantling both super structures. The last of the hoists were removed by Friday. Steel set aside for sale as scrap.
2. The hoists themselves may have little value, except as scrap metal. However, the motors may be sellable.
3. Cross bars in strip area all removed. Started work on cross bars in chrome area.
4. Continued work on processing sludge. Some fluids started into clarifier, but most settling tanks are empty.

WEEK OF FEB 6-10, 2006

1. Continued work on dismantling both super structures.
2. Continued work on processing sludge.

Week of February 6-10, 2006 cont.

3. Abel pulled a sample of rinsate from power wash of equipment. Called Western Analytical to pick up sample. Called/faxed Georgia at County Sanitation for clarification of how many tests she wants done.
4. Continued sweep and clean.

WEEK OF FEB 13-17, 2006

1. Spoke with Georgia from County Sanitation and received go-ahead to treat rinsate from power wash of equipment. She is only requiring a test of wastewater after treatment and before discharge. Our area and our project has been turned over to the supervision of Jesse Kerinf of LA County Sanitation.
2. Great progress on dismantling superstructures. First roll off to take scrap steel from this phase of cleanup arrived Wednesday, Feb 15.
3. First roll off (scrap steel) picked up either late Feb 16, or early Feg 17.
4. Second roll off (scrap steel) almost full and ready for pickup.

WEEK OF FEB 20-24, 2006

1. Finished dismantling super structure! Only two uprights still in. These need a jack hammer to bring it down.
2. Second roll off picked up, and third filled. Third roll off pickup Thursday, Feb 23
3. Crew began final sweep in plating line area.
4. More work removing electrical wiring, other pipes.
5. Began treating wastewater from power washing operations.
6. Beginning arrangements to ship, by manifest, app 15 bags of filtercake and nickel bearing waste for recycling.

WEEK OF FEB 27-MARCH 3, 2006

1. Further work removing electrical wiring and other pipes and equipment.
2. Officially engaged John Matthews PE as our consultant for the ground testing phase of closure. Sent letter to Irena Edwards at DTSC.
3. More work treating wastewater from power washing operations.
4. March 2, 2006: Jessi Kerins, LA County Sanitation, came by and took a sample from the bottom of the collection pit. We knew by looking that we were out of compliance. Our first guess of the cause was that unwashed out of service equipment was setting just above the collection pit, and rain the previous early Tuesday has washed contaminants into the empty pit. Equipment was moves and the area swept.
   It's a good thing because it rained the following day.

WEEK OF MARCH 6-10, 2006

1. Date for ground testing set for Monday, March 13, 3006. John Matthews received the go-ahead from Irena Edwards, DTSC.
2. Tuesday: March 7. Abel and Jose began power washing the walls in the nickel area.
3. Rog out to see and prepare to bring roll-off bin for RCRA waste.
4. Removed more used equipment near collection pit. Swept area.
5. Further cleanup and power wash all week. Pumped all pits and trenches by Friday

WEEK OF MARCH 13-17, 2006

1. Monday, March 13. Ground testing day, including soil vapor and mobile lab for analysis of possible VOCs. Initial results, VOCs at level or 3-5
2. Richard Kallman and Tom Hall, Santa Fe Springs Fire Department, came by to inspect mid morning.
3. Pickup of nickel bearing waste delayed – more approvals needed from DTSC
4. Waiting until ground testing complete to bring in roll-off. Several vendors to give quotes.
5. Reswept area around the collection pit
6. Friday: We have an unfortunate disgruntled employee situation. Our long time wastewater treatment operator decided it is time to quit. He says he thought it was OK to release the wastewater being held, since, as far as he could see the wastewater was clean. We discharged some treated wastewater, up to 600 galleons, content unknown, but probably within limits. More wastewater from power-wash is still on site, and more will be generated.

WEEK OF MARCH 20-24, 2006

1. More cleanup. Swept the upper horseshoe.
2. New inventory of the various hazardous waste from cleanup in powder or dried sludge form. Found 15 bags of nickel bearing waste, 6 bags of RCRA waste, and 2 bags of polishing dust.
3. March 22: Shipment of 2 bags of polishing dust to US Ecology, located in Beaty Nevada, by manifest 25195226.
4. Employee Training: review of all policies for closure. Included new polishers for Foss Metal Finishing. Stressed NO polishing dust is to go in the regular trash. Set up a fresh satellite storage drum.
5. Training emphasized that no wastewater goes down the sewer until tested and approved.
6. Started final preparation to ship six bags of plating waste, RCRA, to US Ecology. Shipment scheduled for sometime next week.

WEEK OF MARCH 27-31, 2006

1. Finished preparation of shipment of six bags of plating waste with metals.
2. March 28: Shipment of 6 bags of RCRA waste to US Ecology, Manifest #25195238
3. Started clear out of chemical storage building. Continued sorting misc RCRA waste to go into a roll off.
4. Ed moved most of the used equipment and RCRA waste that was stored in the warehouse across the street. Foss Plating is vacating the building.
5. Jose worked on cleanup of the rest of the strip line. Nice job.
6. Don & Victor Barragan discussed removing the rest of the berms in the strip area.

Work scheduled for sometime next week.

WEEK OF APRIL 3-7, 2006

1. Partial removal of remaining berms by Jose

WEEK OF APRIL 10-14, 2006

1. More work on berms, with cleanup
2. Problem area – guck at bottom of old strip tank.
3. Arrival of roll-off for misc RCRA solids – cement, pvp piping, floor boards,etc.
4. April 11, 2007. Jessi Kerins, LA County Sanitation, brought the expected NOV for March 2, 2006. By this time we had recognized that the problem may have been caused by an employee who either did not understand, or disobeyed directions and discharged some contaminated fluids. This employee no longer works for Foss Plating.

WEEK OF APRIL 17-21, 2006

1. April 18: Roll-off sent by manifest, Starlight, to US Ecology in Beatty, NV
   See Manifest 25148338
2. Second roll-off arrived, and loading begun.
3. County San reinspection. Due to causes of NOV, recommended that we block the outtake pipe.
4. Expandable plug purchased 4/20, installed 4/21/06.

WEEK OF APRIL 24-28, 2006

1. April 25: Second roll-off sent by manifest, Starlight, to US Ecology in Beaty, NV
   See Manifest 25148346
2. April 27: Rented a jack hammer to remove guck at bottom of old strip tank
3. Kevin, from Starlight, came by to sample waste with nickel in supersacks.
4. Jose swept up and collected dirt, cement, etc. from strip area, placed in supersacks and 55 gal drums for hazard determination.
5. Phase II Assessment of Subsurface completed April 28, 2006 by Winefield. This report is to be submitted to DTSC

WEEK OF MAY 1-5, 2006

1. Arrival of another roll-off for further shipment of scrap steel.
1. Kevin, Starlight, back again to look over the nickel. Pickup promised for this week, or asap.
2. Kevin noticed accumulated dried guck on side of strip tank, and suggested that it should be carefully scrapped off since it had a pH of 14.
3. Jose Solchaga did an excellent job of scraping the inside of the strip tank, before loading it into the roll-off. Guck put in supersacks for later disposal.

WEEK OF MAY 7-12, 2006

1. Sold titanium baskets.
2. More scrap steel sold.
3. Richard Kallman, CUPA, came by to check progress. He looked over recent manifests and received a copy of the Phase 11 Investigation (ground testing)
4. Overseas shipping container arrived Thursday, May 11 for nickel waste.
5. Picked up after hours on Friday, May 12

WEEK OF MAY 15-19, 2006

1. Upon arrival Monday morning, noted that the shipping container had been picked up. No paperwork was found. I called Starlight, and Chris promised to send our copy of the manifest, and other paper work.
2. Bundled and took newspapers for recycling at Puente Hills Recycle Center for a small payment. They were willing to also accept four boxes of outdated business papers without payment. Plans to take more business paper waste next week.
3. Nickel bearing waste returned on Thursday, May 18, 2006 by Starlight, due to a disagreement between Kevin Berry (salesman) and Starlight Environment.
   Kevin Berry said the nickel would be picked up Friday by Miles Chemical.
4. Addendum to Report on Findings completed on May 19, 2006 by Winefield. This Report is to be submitted to DTSC.

WEEK OF MAY 22- 26, 2006

1. Received second NOV from LA County Sanitation from a sample taken April 11, 2006. First NOV from March 2. Disgruntled employee left March 17. Further inspection and sample taken April 11, with first suggestion to block the out take pipe. We wish we had thought of it earlier. (Hindsight is always 20/20)
   A home made block was installed during the week of April 11-17. On April 20 the inspector returned and gave better information for an "official" expandable plug. The plug was purchased on April 20, and installed on April 21.
   Probable cause of the violation. Our current system is a gravity flow. We think the last tank overflowed, in spite of the fact that many of the upstream treatment tanks were empty. Whatever was in the final tank was obviously out of compliance. The plug has solved that problem.
   The collection pit has been dry. Rainwater/possible leaks from system, were pumped back on May
   Holes were drilled on the bolt and wing nut on May 30, 2006
   Phoned the inspector.

WEEK OF MAY 30-JUNE 2, 2006

1. Miles Chemical delivered shipping boxes, heat treated pallets for nickel bearing waste.
2. Jose Solchaga and Kevin Berry worked on transferring waste from supersacks to shipping boxes. Box was nailed to the pallet, and a plastic liner went inside the box.
3. Jose finished by placing metal shipping bands around the boxes. We ended up with a total of 16 boxes.
4. Pickup of nickel bearing boxes expected Thursday or Friday. Rescheduled for Monday or Tuesday of next week.
5. Put improved labels on further RCRA waste. Was careful to transfer the correct date for the start of collection.

WEEK OF JUNE 5-9, 2006

1. Several phone calls to Miles Chemical concerning pick up of nickel bearing waste. Latest promise is Friday. They are being very careful with the paper work.

2. Don, Carol, John Matthews. PR, CPP and Andre La Montagne, REA, met with DTSC regarding the latest ground testing. John Matthews will rewrite parts of the
3. ground analysis to meet DTSC requirements. We will meet again after DTSC reviews the findings. At the time, Carol had questions regarding the chart showing chrome content in the nickel area.
4. Prepared samples for analysis of 4 five gallon containers with concentrated metal bearing waste. Took to Phibro-Tech for analysis on Friday.
5. Rechecked the pH in the treatment tanks. One tank has a very high pH of 12. Jose to adjust on Friday. Oops, the mixer is broken. Jose will try to fix.

WEEK OF JUNE 12-16, 2006

1. Jose finished putting further RCRA waste, as a powder or dirt, in the left over shipping boxes for disposal. Boxes were labeled.
2. More labels were put on other waste.
3. Phone call on Monday from Kevin Berry. He is contacting Miles Chemical again to firm up when pick up of nickel bearing waste can be expected.

WEEK OF JUNE 19-23, 2006

1. Phone contact with Kevin Berry. Brad, Enthone, will pick up nickel on Thursday or Friday.
2. Monday-Tuesday, clean up in archive storage (business records) Throw aways from 1997, 1998 were set aside to take for recycling.
3. Wednesday. We took a car load of business papers from 1997-1998 to the new County Sanitation Recycling Center by Puente Hills Land Fill. This time it was refused because it is a business waste. So, it had to go in the dumpster.
4. Contacted Andre, geologist from Winfield, Associates, regarding questions on Subsurface Investigation of our ground. During the meeting with DTSC I had questioned the chart (3) showing chrome content in the nickel area. Andrea admitted there was an error, and said it was corrected. We should get a copy of the revised report late this week or sometime next week.
5. Another phone contact from Kevin Berry. Pickup now will be done by Ecology Control. Kevin will e-mail exact time and date. Contact with Tom Nelhs confirmed scheduled pickup to be Tuesday or Wednesday of next week.
6. Sold polishing machinery to Foss Metal Finishing. They will make payments.

WEEK OF JULY 3-14, 2006

1. Inspection by Richard Kallman on July 6. We have lots to do. New list submitted to Don.,
2. Contact with Vic Foss to help wastewater treatment. A workable plan was established.
3. Met with Santa Fe Springs, Richard Kallman to discuss progress, and clarify city requirements on Monday, July 10, 2006
4. Sent out start of mass mailing to metal finishers to sell remaining equipment
5. FINALLY! 16 bags of nickel bearing waste picked up on Wednesday, July 12 By Ecology Control, Manifest 98375474
6. Addendum #3 submitted to DTSC on July 13, 2006 by Winefield

WEEK OF JULY 17-21, 2006

1. Progress selling equipment
2. Further contact with PhibroTech concerning pickup of liquid nickel waste
3. Received a phone call from Kevin Berry. The Nickel Waste is on the train to go back east.
4. Contacted RRD Environmental to get pick up of 6 containers of RCRA Waste Manifest and labels arrived.
5. Received a copy, by mail, of Addendum #3 to FPA-06-028 Report. Both Don and Carol read and Oked.
6. Started further work on clean up inside the building. Organized items on the floor.
7. Sold Time Saver

WEEK OF JULY 13-28, 2006

1. Monday – more work on cleanup inside.
3. Tuesday – RRD picked up 3 boxes and 4 super sacks of RCRA waste for disposal at Beaty, NV, Manifest 25195435
4. Tuesday – Roll off delivered for more scrap steel
5.

WEEK OF JULY 31-AUG 4, 2006

1. Work on cleanup of shop floor, more power wash of floor
2. Loaded scrap steel into roll off
3. Addendum #4 and comments submitted to DTSC by Winefield. Finally approved.

WEEK OF AUG 7- 11, 2006

1. Roll off bin with scrap steel picked up Tuesday morning, Aug 8
2. Good sweep of loading area, parking lot in front of WW Treatment area.
3. Richard Kallman, CUPA, came by and discussed progress with Don
4. Phone conference with John Matthews, PE. He will complete paperwork For DTSC, including a response to the July e-mail from Irena Edwards. Work to Be completed by Friday when John leaves for vacation.
5. Continued power wash of floor and walls.
6. Started cleanup of downstairs office

WEEK OF AUG 14-18, 2006

1. Swept both forklift pathways. Swept debris near dumpster from office and inside cleanup
2. More work cleaning up inside
3. Aug 16. Carol attended MFASC training for new Manifest requirements.
4. Began work on updating the Contingency Plan
5. Wrote new inspection checklist more appropriate for clean up activity. The old one provided by the city was no longer good enough.
6. Letter from DTSC, dated August 4, 2006 approved sampling locations for outside testing locations. Attach;emtn #3 – Boring locations submitted Aug 11 by Winefield.

WEEK OF AUG 21-25, 2006

1. Now that Jose has more time (from Foss Metal Finishing) he began sorting the rest of the shop equipment and supply, and throwing away junk Did a good job separating "OK to trash" from possible RCRA waste.
2. Completed update of Contingency Plan, both the Short Form and the Long Form. Short Form submitted to City of Santa Fe Springs. Both forms can be found in the Gray Notebook in the office.
3. Updated the wallet size phone number list, and gave a card to everyone for everyone's wallet. Printed the Mini Contingency Plan in both Spanish and English

WEEK OF AUG 27 TO SEPT 1, 2006

1. Carol tested the wastewater in all the clarifier tanks. Most are ok for discharge.
1. Meeting with Vic Foss, Don Foss and Carol McCracken to go over procedure to complete treatment of wastewater in clarifier
2. More cleanup inside the shop.

WEEK OF SEPT 11-15, 2006

1. Carol met with Jose to further direct him to pump out some of the clarifier tanks to above ground tanks for treatment. Pumping done Thursday
2. Met several times with Gibralter concerning switching consultants. Gibralter went down to DTSC and discussed options to move this along with Irena Edwards.
3. Don spoke over the phone with Irena and Richard. Meeting with Richard set for 9:00 Monday morning to go over the details.
4. Carol attended update training for Hazardous Waste Handling. Further training for Jose to follow.
5. Jessi Kerins, LA County Sanitation, came by to check the collection pit. It is very dry. Unfortunately, Carol wasn't here to go over our current plans.

WEEK OF SEPT 18-22, 2006

1. Meeting Monday with Richard Kallman, City of Santa Fe Springs. Attending were Don, Carol, along with Gary and Scott from Gibralter. According to Richard, all belowground work must be under DTSC. This new approach won't work.
2. We provided a copy of the Phase 2 to Gary and Scott. They will look over and see if they can still help us.
3. Jose and Carol are working on wastewater treatment, under the direction of Vic
4. A box arrived for more scrap steel. Jose is working on filling it.

WEEK OF SEPT 25-30, 2006

1. Carol and Jose are continuing to work on further wastewater treatment so we can empty the clarifier.
2. Contacted LA County Sanitation regarding the quarterly surcharge payments. Paulette North checked our files. Since we have shut down, and have no discharge, we do not have to submit quarterly payments. She thought our sewer charges will be moved to our property tax statement
3. Kent O. Mcintosh, LA County Sanitation, came by to inspect. No changes.
4. Wastewater treated in #3 chamber of claiifier now at pH 9-10, and nickel has successfully fallen out. However, on a very rough paper test, this wastewater is a 3 for hex chrome, and is now yellow.

5. Carol started jar tests to attempt to treat out the chrome.

WEEK OF OCT 2-6, 2006

1. Carol continues jar tests for chrome in wastewater. Nothing positive yet.
   Vic came by, and instructed to change the pH. It didn't work
2. Jose started another cleanup, sweep and power wash of plating floor.

WEEK OF OCT 2-6, 2006

3. Gary McDonald and Scott, Gibralter, met with Don and Carol. They agreed
   To come back Thursday to demonstrate how to safely acid wash some of the metal residue still on the shop floor.
4. Don found and purchased safety equipment and pool acid.
5. Acid wash started Thursday.
6. Heavy acid smell still felt on Friday morning. Carol instructed Jose to neutralize with a little bit of sodium hydroxide.
7. Don to get a small bit of sodium bisulfide for further jar tests on stubborn chrome in wastewater.

WEEK OF OCT 9-13, 2006

1. Monday and Tuesday we continued with the acid wash, power wash of floor in nickel area
2. Phibro Tech picked up some nickel solution on Tuesday. Manifest 000090494 JJK
3. Final power wash of floor on Wednesday.
4. Richard (Santa Fe Springs) and Irena came, by appointment, on Thursday morning.
   The City plans to give us a Fire Department Closure, when all hazardous chemicals, including wastewater, and other RCRA waste, are shipped off site.
   Irena will give us an outline of just what DTSC will require. We will need an engineer to fill in the details, and to certify how deep we can safely excavate.
5. Carol & Jose working on final wastewater treatment, using sample sodium bisulfate.
6. Started filling a roll off with more scrap steel.

WEEK OF OCT 16-20, 2006

1. Sodium Bisulfate order arrived. Jose began further treatment of two tanks with chrome.
2. Treatment worked great in above ground tank, but not in 1st chamber of clarifier.
3. Tried adding more Sodium Bisulfate on Friday.
4. Jose swept all trenches. Put dirt in supersack for RCRA disposal.
5. Don to contact Phibro Tech regarding further nickel bearing waste, currently stored in the nickel pit. Nickel content around 400 ppm.
6. More work adding scrap steel to roll off bin.

WEEK OF OCT 23-27, 2006

1. Sodium Bisulfate further addition on Friday worked. Wastewater much clearer in 1st chamber. Nickel content is still too high. Further jar tests using floc.
2. Don and Jose worked on repair of wall next to the men's room.
3. Jose started using a jack hammer to remove above grade cement in plating area.

WEEK OF OCT 20-NOV 3, 2006

1. Jose completed removal of above grade cement in plating area. He swept up lots of Cement powder.
2. Adams Steel could not pick up their bin because scrap steel was sticking out at the top. Jose repacked the bin.
3. A simple list of DTSC requirements was received and reviewed. Several potential contractors were contacted and interviewed. We are wait for bids. Cost is becoming quite an issue.

WEEK OF NOV 6-10, 2006

1. Further contact with potential contractors to meet DTSC requirements. (Gibralter, Kevin Berry and Raj)
2. Dissatisfaction with Winefield continues to grow.
2. Tuesday inspection of wastewater – Floc finally worked in chamber #2!
3. Further work with wastewater. Sludge settler emptied. Treatment of excess fluids from filter press to start next week.
4. Ed and crew painted the inside Friday.
5. Rog recommends that all cement be sent to Beatty, AZ as a RCRA waste. At the most, only one pallet or so is clean enough for other disposal. That wouldn't even pay for the testing.
6. Scrap steel bin picked up.

WEEK OF NOV 13-17, 2006

1. Began painting the inside walls of the building.
2. Paint residue got into wastewater in tank #2. To try more floc to clarify.
4. Sold more scrap steel for recycling.

NOVEMBER 20-30, 2006

1. More cleanup inside the building, and painting inside walls.

DECEMBER, 2006

1. Chose Astech Environmental to formulate next round of Plans for DTSC. Plans to be submitted sometime in January.
2. More cleanup inside the building
3. More wastewater treatment
4. More painting.

JANUARY, 2007

1. More of the above.
2. Sampling & Analysis Plan submitted to DTSC, dated January 29, 2007, by astech
3. Sold more used equipment.
4. Started clean up of conduit, etc from the ceiling
5. Sent sample of treated wastewater to Western Analytical for analysis to be submitted to LA County Sanitation
6. On Jan 29 we sold the poly tanks to Tool & Jig Plating

FEBRUARY, 2007

1. February 1, 2007 shipped by Manifest 000425847 2 supersacks of hazardous waste to US Ecology in Beatly, NV.
2. Finally. Sent inquiry letter to Jesse Kerins, LA County Sanitation regarding final discharge of accumulated wastewater, with our lab results.
3. More cleanup of conduit on ceiling, until February 13, when Ed fell at home and broke his arm
4. Jesse Kerins, LA County San, phoned and came by to affirm technique for collecting sample – an equavalant amount from each tank
5. Sold more used equipment to Thelin.

MARCH, 2007

1. March 1, 2007 Phibro Tech picked up 300 galllons of liquid nickel bearing waste, Manifest 002697356
2. Revised Sampling & Analysis Plan submitted to DTSC on March 5, 2007, by Astech
3. While clearing scrap steel from the roof, and blower, discovered some old polishing dust. Later in the month the dust was taken down from the roof, collected and kept for disposal by manifest.
4. March 10, Adams Steel picked up their roll off, sale of scrap steel.
5. March 13, legal discharge of accumulated treated wastewater to POTW. 24-hour sampler from both LA County Sanitation and Western
4. .Sold more equipment
5. Cal Tron Plating finally removed the boiler they purchased.

APRIL, 2007

1. Ed back from injury, and continued work clearing junk from the ceiling.
2. Painted beams, and support pipe.
3. Started painting the outside of building
4. More polishing dust removed from roof and set aside for disposal.

MAY, 2007

1. Finished painting the outside of the building
2. May 21, 2007 shipped 2 more bags of hazardous waste, polishing dust, to Beaty NV, using Manifest 000425993

JUNE, 2007

1. Completed painting, fix up of Men's Room #1, Ladies Room.
2. Started work on painting, fix up the downstairs office., upstairs offices
3. June 14, 2007 FINALLY!

Andy Schmitt, Astech Environmental, started sampling the concrete using a field portable X-Ray Fluorescence (XRF) detector. Irena Edwards, DTSC, was here and marked the specific spots for testing. Tom Hall, City of Santa Fe Springs also came by to inspect progress. Results inconclusive. Andy will return next Thursday, June 21.

4. June 21, 2007. Andy Schmitt came back to continue concrete sampling, plus the core ground samples, as detailed in the work plan, and using exact sample spots as set by Irena Edwards, DTSC.
4. Not all cement core samples were acceptable. Andy Schmitt returned June 29 to pull a few more samples. Some lab results to be reviewed next week

JULY, 2007

1. Andy Schmitt in and out with various aspects of the current testing. Many phone conversations between Andy and don.
2. Inspection by Richard Tallman, SFS Fire Department. As soon as the last of the liquid waste is removed, he wants us to get rid of all the above ground tanks, etc outside. He will return to reinspect in mid August.
3. July 17, 2007 Phibro Tech picked up app. 1500 gal of wastewater. This is the last of the liquid waste. Manifest 002695835
4. Work continued of paint/fix up of offices downstairs and upstairs.
5. More testing for VOCs inside.

AUGUST, 2007

1. Thursday August 2, Andy Schmitt back to drill for ground tests below the clarifier pits. He was assisted by Ed Foss and Kevin Berry. Test samples taken at 2,5 and 10 feet for metals and/or VOCs. We also tested in the abandonded Degreaser pit and in the burmed area next to the sludge settler.
2. Sandblast: We experimented removing the worst of the scale on sides of clarifier pits. Further testing will determine is this is sufficient.
3. Monday, Aug 13, 2007. Meeting at DTSC with Irena, Robert, Don, Stan, Carol and Andy Schmitt. No, we do not think we will try sandblasting the guck off the side of the clarifier tanks. Probably Foss Plating will take out lots of contaminated concrete inside, and ship as RCRA waste. Probably Foss Plating will look for ways to "abandon in place" the cement walls and bottom of the below ground clarifier pits. We are still waiting for lab results from testing, including QC by Andy.
4. Wednesday, Thursday, Aug 15 & 1 6. Foss Plating was contacted by and visited by Richard Kallman, Santa Fe springs Fire Department regarding progress on cleanup of equipment outside. Cleanup activity started on Monday, Aug 13, by Ed and Jose. A roll off for scrap steel arrived early in the week.
5. Don Foss has a few "nibbles" on selling some of the outside equipment.
6. Tried renting a jack hammer to remove the outside berm. It was too slow.
7. Monday Aug 20 Vic Barragan brought his large back hoe, which successfully brought down the 4' berm.
8. Sent one roll-off with steel for recycling, including one of the outside tanks.
9. Thursday, Aug 23. Don took a truck load of scrap brass, copper and titanium to ECKO Metals for recycling. Sold for $122.75
10. Friday, Aug 24, swept outside where more scrap steel is waiting for pickup. Found lots of misc. trash, sand, sand & gravel, and just plain dirt. Left some discoloration from the sand.

SEPTEMBER, 2007

1. Adams Steel began payments for scrap steel sold.

9/4	$300.00
9/10	$553.75
9/11	$ 84.68
9/19	$400.00

   Items scrapped included tanks, the sludge settler, slant plate clarifier
2. Sold the filter press to California Technical Plating
3. Received the Additional Site Assessment Report from the latest round of testing by Astech Environmental Services. Report is dated Sept 13, 2007.

4. From June 21, 2007 to Aug 2, 2007 Astech advanced a total of 23 exploratory borings, installed multiple depth soil vapor sample probes at seven locations, and collected 22 concrete core samples. Sites targeted in this investigation included the former strip line, waste nickel storage pit, degreaser vault and former plating line #2. And the clarifier area.
5. Public Notice Letters are under preparation, with a plan to mail to neighbors in early October.

OCTOBER, 2007
1. Further testing and starting on underground cleanup is stalled.
2. Further clean up of the building, painting, etc.

NOVEMBER, 2007
1. Still stalled.
2. Received letter from EPA, Region 9 asking for information regarding potential liability in the Omega Superfund Site. Letter and requirements very confusing. Began work on response.

DECEMBER, 2007
1. Interim Soil Remedy Workplan submitted Dec 19,. 2007 by Andy Schmitt.
2. Began work on clean up and inside painting of SDL Building.
3. Received extension from EPA on response to Omega Superfund Site. Since we are still confused over requirements, we sought the advice of our lawyer, John Caballero. Response completed December 19, 2007

JANUARY, 2008 Irena Edwards, DTSC, gave verbal approval for In-Situ treatment below ground. Reported that we need a permit from the Water Board. Work began on permit requirements.
1. Continued work on SDL building.

FEBRUARY, 2008
1. In February, a phone conversation with Irena Edwards revealed that official approval on this approach has been denied by her supervisor. Stopped work on Water Board permit.
2. Continued work on SDL Building, including new flooring and plumbing.
3. Began work on plan to complete the removal of the below ground clarifier pits located outside.

MARCH, 2008
1. Replaced the fence in front of wastewater treatment and clarifier areas.
2. Replaced the overhead door in the SDL Building
3. Filled in opening between the SDL building and the main building, in preparation to finding a lease tenant for the SDL building.
4. Spring Cleaning: major trimming on landscape trees and plants.

APRIL, 2008

1. Further cleanup and work on SDL Building. As part of cleanup we found small piles of polishing dust and other stuff belonging to tenants. Try to get tenants to pick up
2. Met with Nancy regarding further plans for shut down

MAY, 2008

1. Carol attended Annual Stormwater Training, and worked on annual report
2. Unsuccessful getting tenants to pick up their stuff.

JUNE, 2008

1. Stormwater report submitted
2. Still working on tenants

JULY, 2008

1. Carol attended annual refresher for Hazardous Waste.
2. Limited amounts of used oil, from tenants, taken for recycling
3. We are stuck with about 2 supersacks of polishing dust from tenants. Start to package for shipment offsite by manifest.
4. Met with Nancy. Required for plan to close the clairifier is petition to State to drop our Tiered Permit. Carol to prepare required charts and other information and submit it to Nancy. Included is a site map with description of Key (location of original equipment) and a Legend (description of what is currently on site) Maximum Chemical Inventories, (both incoming chemicals, and chemicals in Inventory Removal, Decontamination & removal of equipment. Project completed July 26. Nancy to submit Closure Plan by July 31

AUGUST, 2008

1. Don finally contacted Nancy on Aug 12. Closure Plan still not finished. She broke her ankle.
2. Carol updated Shut Down log book, Schedule of shutdown costs.

SEPTEMBER, 2008

1. Plan to Close the clarifier area submitted to DTSC. Many requests from DTSC.
2. Still missing from the plan is a Safety Plan. Terry Wong is stalling on this.
3. Many phone calls to Irena to keep updated.

OCTOBER, 2008

1, Still waiting for DTSC approval .

NOVEMBER, 2008

1. FINALLY. In a letter dated Nov 20, 2008 Foss Plating finally received approval of the Workplan dated Nov 5, 2008 to proceed with closure of the wastewater treatment area.

DECEMBER, 2008

1. December 11, 2008. Meeting between Nancy, Randy, Don and Carol on procedures for Phase IV, Wastewater Treatment Chambers.
3. Randy & Carol to study the official Permit-By-Rule Closure Plan, and come up with plans of action.

4. Randy prepared an OUTLINE for Removal of Wastewater Treatment System and Site Safety Officer list of Duties and Responsibilities.
5. Randy began Pre-Planning Activities, getting written estimates from all subcontractors.
6. Received official letter from County Sanitation Districts voiding the Industrial Wastewater Discharge Permit No 004352

JANUARY, 2009

1. Randy making progress on Pre-Field Activities: gathering equipment, obtaining utility clearances, and selecting and preparing concrete staging areas.
2. Don to seek any necessary permits from the City of Santa Fe Springs.
2. Carol to prepare the Log Book and appropriate warning signs, such as Exclusion Zone, Decontamination Zone, Haz, Non Hax, etc.
3. Several meetings with Nancy Berensky, Vic Barragan, Randy Foss and Carol McCracken to firm up plans for removal activity.
4. Friday, Jan 30 Activity: Site Preparation, Exclusion Zone set up, concrete demolition. Segregation of non-haz material. Set up stockpile for non-haz material Crew. Victor Barragan – Orange County Backhoe – Demolition sub-contractor Terry Wong, Environet, Health & Safety Sub-Contractor, Waste Management, a licensed disposal facility.
   Randy Foss – Phase IV Environmental Project Manager
   Ed Foss – Foss Plating Co., Certified Haz-Waste Handler
   All above are 40-hour trained, wearing steel toe boots, other safety equipment.

6. Saturday, Jan 31 Activity: Concrete demolition. Two trucks with approximately 30 tons of non-hazardous concrete sent to approved disposal site. Profiling of RCRA material established with licensed disposal facility (Waste Management)

FEBRUARY, 2009

7. Monday, Feb 2 Activity: Concrete demolition of RCRA material began. Discovered a second layer of concrete below the first in vault bottom. Also discovered excess rebar within the cement walls and floor. Prepared RCRA Stockpile pad in west end of yard. Bermed the entire area adjacent to storm water runoff area with 50 sandbags to secure the area. Two plastic barriers to cover materials from rain.
7. Tuesday, Feb 3 Activity: Concrete demolition of sub layer and side walls. Care taken when side walls are removed. Plywood sheeting is available if needed. As observed both Monday and Tuesday, dust suppression using water spraying has been successful. No visible dust emissions present. Stockpile begun on RCRA debris using Visqueen barrier and sand bagging to prevent release in case of rain.
   Technician Ed Foss has been trimming excess rebar from concrete chunks. Size kept to 2' x 2' maximum.
   Soil sampling location and methodology discussed with environmental consultant.

9. Wednesday, Feb 4 Activity: Attempt to finish concrete breakout on side walls and bottom. Dust suppression with water spray. Prepare sampling locations (4 side wall and 4 bottom). For cam17 metals and VOC. Soil below EB13 excavated to 3 fbg. stockpile for disposal after profiling. Build segregated pad for soil. Sand bag between berm wall and open pit to prevent storm water runoff. Cover with Visqueen both concrete and soil stockpiles per storm water plan.
Notify Irena @ DTSC when ready for confirmation sampling. Terry Wong to perform under her supervision.

11. Thursday, Feb 5, 2009 Activity: Further removal of concrete from side walls and bottom. Further work on building a pad for stockpile for soil. Visqueen barrier was placed under and on top with sandbags surrounding the entire stockpile to prevent runoff. Site is prepared for soil sampling scheduled to commence after proper drainage from recent rainfall.
    Randy contacted DTSC, Irena Edwards for testing to commence on Feb 11, 2009, at 1:00 p.m.
12. Monday, Feb. 9, 2009
    Randy, Ed and Terry on hand for clean up prior to testing.
13. Tuesday, Feb 10, 2009
    Ed, Vic, Terry and Randy back for further cleanup prior to testing.
14. Feb 11, 2009. Finally. Irena Edwards, DTSC, on hand to oversee pulling soil samples from designated spots. Samples pulled by Ed, Evertt Fogaan, Waterstone, and Terry. Terry Wong carefully labeled and packed all samples.
15. Feb 11 or Feb 12. We were told that a neighbor tried to turn us in for illegal disposal. This is untrue! The fire department handed our neighbor off to DTSC. Irena was here and saw no problems. We hope this frivolous complaint has been shown to be false.
16. Friday, February 20, 2009. P&U Trucking picked up 3 truckloads of cement for shipment to Chemical Waste Management at Kettleman. See Manifests 00823902, 000823903, 000823905. The shipment went out as "non-RCRA hazardous waste solid, concrete with chrome".
17. Thursday, February 26, 2009 received "designated facility to generator copy" from Chemical Waste Management.

MARCH, 2009

1. Copy of Manifests sent to DTSC
2. Received verbal OK from Irena to fill in the hole
3. Received written OK from Irena, DTSC to finish the project by fax, March 18, 2009
4. Found suitable soil to fill in the hole, and sent out for testing.
5. Received verification that soil is "clean"

APRIL, 2009

1. April 1-2, brought in the clean dirt for fill in. Some placed directly in the hole, some in piles to the side
2. April 3.Starter work on fill in the hole. Rented a compactor to compact the dirt.
3. April 4, Continued work compacting the soil. Used water to help process.
4. April 6. More work filling and compacting. Capped inlet piping.
5. April 7. Finally finished! Compacting worked. We tried running the back hoe over The surface, and it did not sink at all!

5 Swept the front parking lot, due to rain predicted. Sand bagged dirt.

6 April 9. Still no rain. Capped and cemented in collection box, closing the outlet to the sewer. Cleaned and started filling various trenches.

7 April 10. Began prep work for cement work

8 April 14. Poured cement to cover former clarifier area
Cleanup of dirt, etc to follow as the cement cures.

9 Randy requested and received the OK for a 60 day delay submitting the excavation closure report. Delay request granted by fax.

10. April 20 Ed, Randy began work on sweep and clean up in the yard and parking lot.

11. April 27-May 1 Carol worked on the Polishing Building Property History and Test Data related to the Polishing Building.. Don had to pick up some of the report books that

FOSS PLATING COMPANY, INC
8140 SECURA WAY
SANTA FE SPRINGS, CA 90670

ABOVE GROUND CLOSURE PLAN
October 19, 2005

PREPARATION: August through early October, 2005

1. Notify, verbally and/or in writing
    - Employees
    - Customers
    - DTSC, CUPA, and other regulators
    - Selected suppliers
2. Transition period
    - Give all assistance to existing customers in finding new vendors
    - Help employees with out placement
    - Plating operations to continue until Oct 1, and further for customer needs and to use up chemicals
    - **Careful planning for chemical purchases to use up all incoming chemicals sometime in early October.** Unused nickel is to be sold.
    - Follow procedures outlined in the existing Closure Plan for Wastewater Treatment. That is: sell or give away what we can. Start arrangements for recycling of all other metals. Then, do as much closure activity as possible using our trained staff. We know our equipment and we understand the properties of the hazardous materials on hand.

3. Preliminary meeting with Santa Fe Springs, CUPA, DTSC and LA County Sanitation to coordinate cleanup efforts to everyone's satisfaction.

4. Closure will take place during several stages which will address concerns from Santa Fe Springs CUPA, DTSC and LA County Sanitation. Each section will be covered by a different plan.
    - Inside above ground closure (City, County Sanitation)
    - Further investigation, below ground (DTSC)
    - Removal of trenches, sumps, inside (City)
    - Above and below ground removal of wastewater treatment (City, LA County Sanitation)
    - Clearing the polishing building so it can be sold/leased
    - Ground Remediation (DTSC)
    - Lease or sale of the property

5. Preliminary go-ahead to try to close the polishing building first was given by DTSC. This is to be pursued as a separate stage.

6. Foss Plating interviewed and received bids from three consultant firms; RRD Environmental Services, Jeff Nighswonger Construction and Jack's Environmental

7. After plating operations cease, and while official closure plans are being written and approved, Foss Plating plans to sell as much used equipment as possible. Scrap steel will be sold for recycling. Foss Plating will proceed with treatment of all rinses, acids and cleaners, under existing permits. Foss Plating will arrange for off-site disposal of nickel and chrome plating baths.

8. Below ground closure will have DTSC as Lead Agency. After choosing a consultant, a below ground closure plan will be written and submitted to DTSC. Copies will be submitted to the City of Santa Fe Springs, and Sanitation District of LA County.

CLEANUP PROCEEDURE-ABOVE GROUND

1. Complete the application for the Above Ground Closure Plan and submit to the City of Santa Fe Springs.

2. Before, during and after writing this plan, discuss all aspects with the city and with the entire management team.

3. Clarify city requirements regarding how much outside oversight will be required. Arrange for this oversight. Clarify when an outside consultant will be required.

4. Interview hazardous waste haulers used in the past, recommended, or as bid. At the appropriate time, arrange for roll-off bins to be delivered. Clarify what can be disposed of as RCRA, or non-RCRA waste, and what can be put in the regular trash.

5. During the entire above ground cleanup, all stages will be fully documented by Environmental Manager, Carol McCracken and Edward Foss, Project Manager. At appropriate times, licensed consultants will certify disposal.

ELEMENTS FOR ABOVE GROUND CLOSURE

1. Asbestos Contamination. None is expected. Discontinued use of any asbestos products over fifteen years ago.

2. Various 55 gallon drums and other sized storage containers. All empty 55 gal drums suitable for liquids will be kept to move the nickel and chrome solutions. Other large containers, poly, steel or cardboard, will be sold/given away, or converted to trash and material containers. At final disposal, they will be washed, cut or crushed and disposed of in the regular trash. Rinseate will go through our wastewater treatment system.

BASIC RULE: If it held or touched hazardous materials it must be washed before disposal. Drums may be reused as containers or for trash. Drums also may be sold or given away.

- If otherwise clean, and not impregnated with hazardous material it may be triple washed and sent to the regular trash.
- If impregnated, dispose of as RCRA Waste.
- If it did not hold or touch hazardous materials, a simple rinse may or may not be needed before disposal in regular trash.

3. Above ground tanks. We will attempt to sell above ground process tanks. Metals (steel, nickel, copper) not sold for reuse will be sold as scrap. All tank liners not sold must be disposed of as RCRA waste.

4. Below ground tanks, trenches and sumps. For this portion of closure, all inside below ground tanks, trenches and sumps will be cleaned out, washed, and will be dry. They will be further cared for after the building is cleared out, following separate plans under the oversight of the City of Santa Fe Springs.

5. High Pressure Cylinders: After plating operations stop, the compressor will be sold or given away for parts. Welding tanks are no longer on site. Any welding equipment brought on site for cleanup will be returned.

6. Process Lines and Vessels: We are trying to sell the plating line and hoists. All items not sold or given away will be power washed and sold for scrap (metals) or disposed of as RCRA waste.

7. Pipelines: A few pipelines are in the trenches and carried hazardous waste. These will be dismantled, power washed and disposed of as RCRA or non RCRA waste. Other pipe lines are above ground. Most above ground plastic pipe only carried city water or air. These will be washed and disposed of in regular trash. Wastewater treatment technician Abel Sanchez will help identify the above ground plastic pipes that ever held anything hazardous, paying special attention to all pipes in the nickel area. Above ground pipes that ever held anything hazardous will be triple washed and disposed of as a RCRA or non-RCRA waste.

8. LPG Tanks: The forklift runs on LPG. A storage tank is located at 8143 Secura. The forklift will be sold after all cleanup is finished. The storage tank will be returned to the supplier.

9. Hazardous Waste: The wastewater treatment system will continue to dispose of process rinses, acid and cleaner solutions. It will also process rinseate from Power Wash activity. F006, or plating waste will be generated. All F006 will be shipped offsite, by manifest, for recycling. Metals that held hazardous waste will be triple washed, inspected, and sold for scrap. Poly tanks, piping, etc that held hazardous waste will be triple washed and disposed of as RCRA or non RCRA waste.

10. Rinseate from power wash: All rinseate from power wash activity will be held and sampled both before and after treatment. Results are to be sent to Sanitation District

(Georgia) before disposal through the wastewater treatment system.

10. Plating solutions, nickel and chrome: Plating solutions will be sold, given away or shipped by manifest for recycling or disposal.

11. Other hazardous waste: Floor racks, cement block and cement from berms, and other debris will be disposed of as RCRA or non RCRA waste. Non-RCRA waste will be triple washed. RCRA waste will be cleaned up to meet the requirements of our licensed hauler.

12. Universal Waste: Florescent light bulbs, used oil, batteries and other universal waste will be sent for proper disposal.

13. Industrial Wastewater Pretreatment Equipment: The wastewater treatment system will remain in operation for above ground cleanup. The area contains both above and below ground equipment. Specific procedures will be similar, and will be covered under future plans.

14. Sumps, trenches and clarifiers: Disposal of this equipment will also be detailed in future closure plan.

15. Wells, oil or water: We have none.

16. Other waste residue on floors and ground: When the above ground cleanup is complete, the floors will be swept and washed. Whatever is swept up will be placed in the hazardous waste bin for disposal as RCRA waste.

17. Soil and Groundwater contamination: Previous testing showed the presence of detectable amounts of chrome, nickel and VOCs. Below ground further investigation and closure will be detailed in future plans to be given to DTSC. When written, a copy will be submitted to the City of Santa Fe Springs.

18. Safety and Training: Staff responsible for closure are all long-time and experienced workers. They have already had extensive in-house training. Closure activity will require different activity. Further training and review of:

- Read and understand the finished Closure Plan
- Review of Hazardous Waste Management
- Review of Personal Protective Equipment, including fit
- General review of basic industrial safety, with video (Spanish/English)
- Review of forklift safety, with video (Spanish/English
- Review Confined Space Procedures
- Send at lease one person to Metal Finishing Seminar on Hazardous Waste, etc., on Wednesday, Oct 19.

18. Provide and require appropriate personal protective equipment, such as:

- Safety goggles

- Steel toe footwear, steel toe rubber boots
- Hard hats
- Gloves
- Hearing protection and respiratory protection when needed

FOSS PLATING COMPANY
DECONTAMINATION, DECOMMISSIONING AND SALE OR DISPOSAL OF EQUIPMENT AND STRUCTURES

At the time of closure, the Company's priorities were to sell as much as possible, then recycle, and then ship off site for legal disposal.

All process equipment and related structures found in the wastewater treatment area have been completely decommissioned and thoroughly cleaned. Almost all equipment has been removed from the property. Foss Plating still has high hopes of selling a few more pieces of equipment, now located inside the building.

Non-regulated process equipment, related appurtenances and containment structures have been completely decommissioned, decontaminated and removed from the property. Equipment was sold, or was taken apart, cleaned and sold as scrap steel. Non metal items that showed signs of prior use with hazardous materials were sent, by manifest, to US Ecology, Beatty, NV. Copies of Bills of sale and/or manifests are available upon request.

Decommission procedures included:

1. Foss Plating first emptied or drained the equipment of its contents.
2. Liquids were tested, and sent through appropriate wastewater treatment.
3. Equipment was manually wiped down, and/or all accessible surfaces were scraped to remove any remaining residue.
4. Power washing began November 18, 2005. All rinsate was collected, tested and sent through appropriate wastewater treatment.
5. Some equipment was dismantled, separating steel from other materials. Scrap steel was sold, and other materials were sent out by manifest.
6. There was repeated training of employees for proper separation of various materials, such as: scrap metals, plating waste with nickel, chrome, RCRA and non-RCRA waste.

A summary of the final disposal of equipment formerly located in the wastewater treatment area is presented below:

Date	Equipment	Disposition	Invoice #
Mid 2006	Storage tanks for incoming acids/caustic	Picked up by supplier	
9/12/06	Boiler	Sold	
1/29/07	Poly tanks	Sold	
8/22/07	Scrap steel, tanks & sludge settler	Sold as scrap	086835, 271542
8/24/07	Scrap steel & slant plate clarifier	Sold as scrap	257138
9/6/07	Filter Press	Sold	
3/19/08	2 compressors, 1 auxiliary tank		
	1 5000 gal poly tank	Sold	

FOSS PLATING COMPANY
INVENTORY REMOVAL – CHEMICALS

At the time of closure, Foss Plating immediately started processing all rinses through the existing wastewater treatment system. All treated wastewater was discharged to the POTW, Los Angeles County Sanitation District, an estimated 64,000 gallons.

Please note. No concentrated solutions of chrome or nickel were sent to wastewater treatment. These solutions were sold for recycling or shipped offsite by manifest for treatment. Copies available on request.

1. These fluids were processed through wastewater treatment, after closure on Oct 13, 2005, and discharged to the POTW.

Solution	Gallons
Acid and cleaner baths (used for pH adjust)	32,000
Chrome Rinses	9,600
Nickel Rinses	2,000
Other dilute rinses	19,000
Power Wash Rinsate	1,000

2. The resulting F006 filter cake waste was shipped, by manifest, for recycling. Copies of manifests are available on request.

Date	Item	Weight/ Amount	Ship to:	Manifest No Tracking Document No
1/4/06	F006 Waste, filter cake	5 sacks	World Resources	24485375
7/18/06	Nickel bearing solid waste Total shipment	(32,000 lbs)	Nickelhuette	98375474
	Note – filter cake from waste water treatment	2 sacks	Nickelhuette	98375474

FOSS PLATING COMPANY
MAXIMUM CHEMICAL INVENTORIES

ICOMING CHEMICALS, CHEMICAL STORAGE

The following table presents the inventory of incoming chemicals found and used in the waste water treatment area. The table shows the typical amounts present in the wastewater treatment area, and the amount present at the commencement of closure activities. Since 1992, Foss Plating had a policy of maintaining in storage as many regularly used chemicals as possible at minimum quantity. Further, as the company approached shut down there was a strong effort to use up as many chemicals as possible.

Common Name	Chemical Name	Average Daily	Final Inventory
Caustic Soda	Sodium Hydroxide	500 gal	0
Muriatic Acid	Hydrochloric Acid	55 gal	0
Sulfuric Acid	Sulfuric Acid	100 gal	0
Floc	Floculent	5 gal	0

CHEMICAL INVENTORIES
PROCESS SOLUTIONS

Up until the last day of plating, October 13, 2005 and through 2006 the outside clarifier tanks, the sludge settler, filter press and sludge dryer were in use processing most solutions located inside the building. The treated wastewater was discharged to the POTW, Los Angeles County Sanitation District. The resulting filter cake, F006 sludge, was shipped by manifest for recycling.

Container	Capacity	Day of Closure
pH adjustment tanks (clarifier)	3600 gal	3600 gal
Corrosive Tanks-spent acids, cleansers (For use to pH adjust)	5200 gal	800 gal
Sludge Settler Filter cake & fluids		App ½ full
oc Tank (Slow feed of flocculent to clarifier tank)	800 gal	800 gal

DETAILED SUMMARY OF DISPOSALS

CHEMICALS

PROCESS SOLUTIONS

EQUIPMENT

FOSS PLATING COMPANY
MAXIMUM CHEMICAL INVENTORIES

INCOMING CHEMICALS, CHEMICAL STORAGE

The following table presents an inventory of incoming chemicals used at the facility, the typical amounts present during facility operations, and the inventory present at the facility at the commencement of closure activities. Since 1992 Foss Plating had a policy of maintaining in storage as many regularly used chemicals as possible at minimum quantity. As the company approached shut down there was a strong effort to run out as many chemicals as possible.

Common Name	Chemical Name	Average Daily	Final Inventory
Nickel	Nickel	1100	0
Nickel Compounds	Nickel Sulfate	100 lbs	
	Nickel Chloride	100 lbs	
	Nickel Carbonate	550 lbs	550 lbs
Nickel Brighteners	Sodium Saccharin, Formaldehyde	100 gal	62 gal
Caustic Soda	Sodium Hydroxide	1000 lbs	0
Water based cleaners Solid	Sodium Hydroxide mixture	1100 lbs	550
	Sodium Carbonate		
	Sodium Metasilicate		
	Tetrasodim Phrophospate		
	Trisodium Phosphate		
Water based cleaners	Sodium Bisulfate mixture	1100	550
	Sodium Bifloride		
	Ammonium Bifloride		
	Hydrochloric Acid		
Muriatic Acid	Hydrochloric Acid	55 gal	0
Sulfuric Acid	Sulfuric Acid	100 gal	0
Hexavalent Chrome	Chromium Trixide	300 lbs	0
Lead Anodes	Lead	3200 lbs	1950
Rust Inhibiter	Tetrasodium Borate	550 lbs	0
	Sodium Nitrite		
Metal Stripping Agents	Sodium Nitrate		
	Sodium Nitrobenzene Sulfonate	100 lbs	0
Buffing Compounds	Aluminum Oxide	550 lbs	149 lbs
	Iron Oxide		
	Tripoli		0
Carbon Mix	Carbon	550 lbs	550 lbs
Carbon	Activated Carbon	400 lbs	50 lb
Boric Acid	Boric Acid	250 lbs	50 lbs
Barium Carbonate	Barium Carbonate	5 lbs	5 lbs
Ammonia	Ammonia	1 gal	1 gal
Whiting	Whiting	7 bags	5 bags
Fumetrol	Inorganic Floride	1 gal	½ gal
	Organic fluorosulfonate		

CHEMICAL INVENTORIES
PROCESS SOLUTIONS

Until the last day plating, all process tanks were in use. The following is the estimated chemical content of each of the process tanks. Associated Rinses contained dilute quantities, and are not included on this chart.

PLATING LINE:

Tank No	Tank Name	Gallons	Chemicals	% Weight, if known
24	Nickel	3500	Nickel	10%
2		3500	Nickel Sulfate	30%
			Boric Acid	6%
			Formaldehyde	1%
			Sodium Saccharin	1%
17	Hex Chrome	1800	Chromium Trioxide	25-60%
			Inorganic Floride	5-40%
			Organic Flurorsulfonate	1-7%
12,14,15,8	Cleaners	6662	Sodium Hydroxide	15-70%
			Sodium Carbonate (Soda Ash)	0-40%
			Sodium Metasilicate	0-20%
			Tetrasodium Phrophosphate	0-20%
			Trisodium Phosphate	0-20%
10	Electroacid	1500	Sodiuim Bisulfate	45-92%
			Sodium Bifloride	10%
			Ammonium Bifloride	0-25%
			Hydrochloric Acid	0-10%
			Sulfuric Acid	0-5%
6	Sour Dip	1200	Muriatic Acid	
			Acid Salts	

STRIP LINE:

Tank NO	Name	Gallons	Chemicals	% weight, if known
1	Electrostrip	700	Sodium Nitrate	25%
			Sodium Nitrobenzene Sulfonate	50%, or less
3	Soak Cleaner	700	Sodium Hydroxide	
4	Rust Inhibiter	700	Tetrasodium Borate	70%
			Sodium Nitrite	25%
	Acid Pickle	700	Muriatic Acid	
6	Paint Strip	800	Sodium Hydroxide	

FOSS PLATING COMPANY
INVENTORY REMOVAL – CHEMICALS

A the time of closure, company priorities were to sell as much as possible, and then recycle if possible. Copies of all Bills of Sale and Manifests are available upon request. Foss Plating immediately started processing all rinses through the existing wastewater treatment system. This was, at a maximum, 19,300 gallons. Acid and cleaner baths were held in the outside tanks and used for pH adjust, an important part of wastewater treatment, particularly for the up to 9600 gallons of chrome rinses. Acids and cleaners were, at a maximum, 32,000 gallons. As cleanup began, careful attention was paid to all RCRA waste, including sweepings. A summary of the disposal of chemicals, nickel as a metal, and both the nickel and chrome plating baths are below:

Date	Item	Weight/ Amount	If sold, to whom,	Manifest No. Tracking Document #
10/18/05	Polishing Dust, debris	1000 lbs		24644008
10/19/05	Remaining incoming chemicals		Cal Tron Plating	
10/19/05	Nickel, as a metal	1760 lbs	RRD/ $7800	
10/20/05	All major lab equipment		Pac. Plating Supply,$1000	
11/16/05	Nickel Plating Solution	3 totes	Impressions Polishing	T10556
11/17/05	More Nickel Plating Solution	3000 gal	Phibro-Tech	24758157
11/21/05	Nickel chips, scrap nickel metal	286 lbs	RRD $600.00	
1/4/06	F006 Waste, filtercake	5 sacks	World Resources	24485375
1/9/06	Chromic Acid Solution	1650 gal	RRD	3386531
7/18/06	Nickel bearing solid waste Including filter cake	32,000 lbs	Nickelhuette	98375474
10/11/06	Nickel solution	20 gal	Phibro-Tech	000090494
3/1/07	Nickel solution	300 gal	Phibro-Tech	002697356
7/17/07	Nickel solution	1500 gal	Phibro-Tech	002695835

FOSS PLATING COMPANY
DECONTAMINATION, DECOMMISSIONING AND SALE OR DISPOSAL OF EQUIPMENT AND STRUCTURES

All process equipment and related structures have been completely decommissioned and thoroughly cleaned. Almost all equipment has been removed from the property. Foss Plating still has high hopes of selling a few more pieces of equipment.

Non-regulated process equipment, related appurtenances and containment structures have been completely decommissioned, decontaminated and removed from the building and property. Equipment was sold, or was taken apart, cleaned and sold as scrap steel. Unsold items that showed signs of prior use with hazardous materials were sent, by manifest, to US Ecology, Beatty, NV. Copies of Bills of sale and/or manifests are available upon request.

Decommission procedures included:

1. Emptying or draining the equipment of its contents
2. Liquids were tested, and sent through appropriate wastewater treatment
3. Equipment was manually wiped down, and/or all accessible surfaces were scraped to remove any remaining residue
4. Power washing began November 18, 2005. All rinsate was collected, tested and sent through appropriate wastewater treatment
5. Some equipment was dismantled, separating steel from other materials. Scrap steel was sold, and other materials were sent out by manifest
6. There was repeated training of employees for proper separation of various materials, such as: Scrap metals, plating waste with nickel, chrome, RCRA and non-RCRA waste.

A summary of the final disposal of equipment from process and wastewater treatment areas is presented below:

Date	Equipment	Disposition	Manifest/Invoice #
10/17/08	Rolled newspaper	Sold	
11/7/05	Scrap metals	Sold	
11/9/05	Copper bus bars	Sold	
11/10/05	Buffs	Sold	
11/16/05	476 lbs copper	Sold	
11/21/05	Scrap Steel	Sold	
12/1/05	Racks (copper)	Sold	
12/6/05	#2 copper, 4500 gal filter	Sold	
12/6/05	#1 copper, #2 copper Clean lead anodes	Sold	P40007
12/15/05	18 Titanium baskets	Sold	

Date	Equipment	Disposition	Manifest/Invoice #
12/15/05	623# copper	Sold	
12/21/05	Stainless Steel Coil	Sold	
12/22/05	Copper bus bars, lead anodes	Sold	P40276
12/29/05	6 tanks, as scrap steel	Sold	
12/30/05	2 tanks, as scrap steel	Sold	
1/4/06	F006 Hazardous Waste	Ship for recycling	24485375
1/17/06	Scrap Steel	Sold	201783
1/18/06	Scrap Steel	Sold	203325
1/19/06	Scrap Steel	Sold	203570
1/21/06	Scrap Steel	Sold	197762
1/23/06	Scrap Steel	Sold	204390
1/25/06	Scrap Steel	Sold	208382, 206061
1/26/06	Scrap Steel	Sold	209172, 204930
2/10/06	Pump	Sold	
2/16/06	Scrap steel, I beams	Sold	216258
2/20/06	Scrap steel, I beams	Sold	216458
2/23/06	Scrap steel, I beams	Sold	214093
3/6/06	Copper wire	Sold	P41556
3/13/06	Hoist	Sold	
3/20/06	Scrap Steel	Sold	
3/20/06	2 yards polishing dust	Ship to US Ecology	25195226
3/28/06	6 yards, hazardous waste	Ship to US Ecology	25195238
3/30/06	Metal stairs, catwalk	Sold	
4/13/06	Amp meter	Sold	
4/18/06	40 yards, RCRA waste	Ship to US Ecology	25148338
	Cement, pvc piping, floorboards		
4/25/06	40 yards RCRA waste	Ship to US Ecology	25148346
5/5/06	Scrap steel	Sold	246233
5/8/06	150 Titanium Anode Baskets	Sold	
5/9/06	Scrap steel	Sold	246759
5/12/06	Boiler	Sold	
5/16/06	Newspaper, outdated business paper	Sold/recycled	
6/28/06	4 lathes, 3 polishers	Sold	
6/28/06	Truck	Sold	
7/17/06	24" time saver	Sold	
7/25/06	7 yards, hazardous waste solid	Ship to US Ecology	25195435
	More pvc piping, floor boards		
8/7/06	Brightener feeder	Sold	
8/8/06	Scrap steel	Sold	275869
11/10/06	Scrap steel	Sold	079664
1/29/07	Poly tanks	Sold	
2/1/07	2 yards hazardous waste solid	Ship to US Ecology	000425847 JJK

Date	Equipment	Disposition	Manifest/Invoice #
2/8/07	Misc equipment	Sold	
3/1/07	Scrap steel	Sold	225727
3/19/07	Misc equipment	Sold	
5/21/07	2000 lbs hazardous waste solid	Ship to US Ecology	000425993 JJK
8/22/07	Scrap steel	Sold	086835, 271542
	Tanks, sludge settler		
8/24/07	Scrap steel	Sold	257138
	Slant plate clarifier		
8/29/07	Scrap steel	Sold	086997
8/29/07	Scrap steel	Sold	263118
9/4/07	Scrap steel	Sold	
9/6/07	Filter Press	Sold	
9/10/07	Scrap steel	Sold	
9/11/07	Scrap steel	Sold	
9/19/07	Scrap steel	Sold	
1/18/08	6 rectifiers, Udylite	Sold	
3/19/08	2 compressors, 1 auxiliary tank		
	1 5000 gal poly tank	Sold	

FOSS PLATINGCOMPANY 6-21-13

DIRECT COST OF SHUTDOWN

	Check #	Amount	Total
DTSC			
10/21/03	65416	1,000.00	
6-15-05	67222	120.09	
8-15-05	37357	313.76	
1-5-05	67637	403.52	
9-13-06	4252	597.61	
1-5-07	4410	608.33	
4-5-07	1372	2,570.49	
8-2-07	4627	1,820.91	
10-23-07	4698	1,113.46	
12-18-07	4741	1,189.54	
3-25-08	4818	2,027.19	
6-19/08	4879	2,391.66	
10-31-08	4973	803.27	
12-18-08	5006	337.94	
3-29-09	5084	3,379.06	
6-18-09	5148	118.93	
10-20-09	5223	200.00	
11-12-09	5238	200.00	
12-10-09	5257	200.00	
3-18-10	5317	300.00	
6-10-10	5368	200.00	
5-4-11		446.54	
9-9-11		1,461.72	
10-27-11		2,536.25	
2-3-12		320.59	
5-2-12		252.39	
			24,913.25
City of Santa Fe Springs			
10-18-05		320.00	320.00
CONSULTANTS			
Jack's Environmental			
6-7-04		8,612.00	8,612.00
Winefield			
8-4-06	4330	2,684.30	
2-7-06	767	1,759.00	
4-28-06	859	10,508.81	
1-18-07	4418	2,637.89	
2-22-07	4436	5,454.12	
4-26-07	4524	4,000.00	
5-17-07	444	3,000.00	30,044.12

Astech Environmental:

4-6-07	1383	2,500.00	
7-10-07	4600	4,800.00	
12-2007	1134	2,000.00	
2012		9,500.00	
2013		1,500.00	20,300.00
Ron Halperin	4702	2,500.00	
10-26-07	1133	2,500.00	
12-20-07	4757	1,250.00	
1-4-08	4784	1,250.00	7,500.00
2-58-08			
Waterstone Environmental			
7-15-08	4896	1,000.00	
9-23-08	4944	1,000.00	
11-13-08	4985	1,000.00	
2-12-09	5051	1,027.28	
3-5-09	5073	2,300.00	
4-30-09	5113	730.08	
6-23-09	5150	1,100.00	
8-4-09	5171	1,793.28	
12-10-09	5256	600.00	
2-18-10	5297	696.80	
3-25-10	5320	700.00	
9-15-11	6106	1,965.60	13,913.04
RJ McNeil			
12-20-07	1132	1,530.00	1,530.00
Miles-Chen Law Group			
9-15-06	4258	700.00	
6-22-07	4580	700.00	
7-10-08	4895	1,200.00	
9-23-08	4946	500.00	
12-4-08	4996	500.00	
1-15-09	504	1,000.00	4,600.00
McKenna, Long, Aldridge			
1-9-09	5034	5,000.00	
3-12-09	5078	1,437.50	
4-30-09	5112	1,000.00	
6-23-09	5149	1,000.00	
9-10-09	5199	3,000.00	
10-15-09	5222	1,400.00	12,837.50
LAB ANALYSIS			
Western Analytical			
3-16-07	4492	210.00	

4-16-07		4511	305.00	515.00
Envirochem				
9-15-06		4258	700.00	
6-22-07		4580	700.00	1,400.00
Chemical & Environental Lab				
11-15-07		4716	1,201.03	
Chemical & Enviro Lab, cont				
3-26-08		4821	10.78	1,211.81
Advanced Technology				
9-11-08	MC		244.00	
10-6-08	MC		684.00	928.00
HAULING OF HAZARDOUS WASTE				
World Resources				
3-21-06		4,009	602.00	
4-3-06		4050	600.72	
11-10-06		4323	124.45	1,327.17
Starlight				
5-3-06		4114	354.99	354.99
RRD				
1-5-06		67636	2,061.00	
3-21-06		4014	560.00	
3-23-06		4026	140.00	
3-27-06		4035	1,680.00	
7-24-06		4216	1,925.00	
3-13-07		4486	550.00	
6-28-07		4587	550.00	7,466.00
PHIBRO TECH				
10-10-06		4780	100.00	
7-17-07		4606	450.00	550.00
UPGRADE THE BUILDING				
Labor 2007			4,200.00	
Blgd Maint.			8,561.12	
Labor 2008			7,300.00	
Labor 2009			1,400.00	
Labor 2010			1,500.00	22,961.12
REMOVAL OF CLARIFIER				
Phase IV				
12/818-08			1,000.00	

2009		12,121.00	13,121.00
Environet			
1-30-09		800.00	800.00
REUBON MENDOZA			
1-30-09		400.00	400.00
ORANGE COUNY BACKHE			
2-3-09	5039	2,000.00	
2-5-09	5045	3,000.00	
2-14-09	5052	1,500.00	
3/5/09	5079	100.00	6,600.00
ED FOSS			
2-3-09		400.00	400.00
Total Shutdown to date			182,605.00

NOTES TO OFFICERS update 6/6/2013

REMEDIATION		Stan Foss	Don Foss	Don Foss Note #4
	2004	1,835.00	10,396.00	
	2005	3,000.00	1,750.00	
	2006	11,701.00	7,861.11	
	2007	20,882.00	26,962.00	
	2009	7,593.75	50,925.75	
TOTAL REMEDIATION		45,011.75	97,894.86	

NOTES TO OFFICERS				Don Foss Note #4	Don Foss SDL
	2004		23,945.00		
	2005		9,462.00		
	2006	15,659.55	54,260.70		
	2007	45,909.00	45,915.00		
	2008	48,481.00	59,010.00		
	2009		34,580.25		10,062.60
January, 2010			2,979.70		
February, 2010			-500.00	10,500.00	
March, 2010				-400.00	
March, 2010				3,600.00	
November, 2010				500.00	
December,2010				12,600.00	
January, 2011				5,400.00	
February, 2011				5,000.00	
June-october, 2011				-10,806.08	
November, 2011				-1,070.97	
January, 2012				-500.00	
April, 2012				1,334.00	
July, 2012				1,334.00	
December, 2012				2,000.00	
TOTAL NOTES		110,049.55	229,652.65	29,490.95	10,062.60
Total Ground+Notes		**155,061.30**	**327,547.51**		

Other Notes to Officers

		Vic	Randy	Ed
Ed Foss	9,916.33			
Carol Foss	18,799.09			
Carol Foss McCracken	6,320.00			
Vic Foss	7,333.33			
Randy Foss	6,074.67			
Carol McCracken-SDL		5,851.41	5,851.41	5,851.44

H Early Investigations

Clayton Environmental Consultants, Inc.

P.O. Box 788 • 5736 Corporate Avenue • Cypress, California 90630 • (714) 229-4806

Preliminary Environmental Assessment of The Foss Plating Company Located at 8140 Secura Way Santa Fe Springs, California

Clayton Project No. 22419.00
April 27, 1989

EXECUTIVE SUMMARY

Clayton Environmental Consultants, Inc. was retained by Foss Plating Company, through Mr. Larry Foss, Secretary Treasurer, to conduct a preliminary environmental assessment (PEA) of the property and industrial building located at 8140 Secura Way in Santa Fe Springs, California.

The purpose of this PEA was to evaluate the likelihood of potential environmental liabilities due to present or previous activities on or near the property. The methodology for this assessment included a visit to the facility and a records search of appropriate agencies.

There are two above-ground storage tanks located within the facility. It is recommended that these be contained within bermed or diked areas to prevent possible offsite surface flow of their contents.

There are fluorescent light ballasts onsite that may contain PCBs. These should be replaced during any remodeling done at the facility.

There are sites listed on various environmental regulatory agency lists that are located within 1 mile of the facility; however, these appear to pose minimal threat to the property.

Clayton concludes that the subject property poses a low risk with respect to environmental hazards.

Preliminary Environmental Assessment
of
The Foss Plating Company
Located at
8140 Secura Way
Santa Fe Springs, California

Clayton Project No. 22419.00
April 27, 1989

Clayton Environmental Consultants, Inc.

P.O. Box 788 • 5736 Corporate Avenue • Cypress, California 90630 • (714) 229-4806

1.0 INTRODUCTION

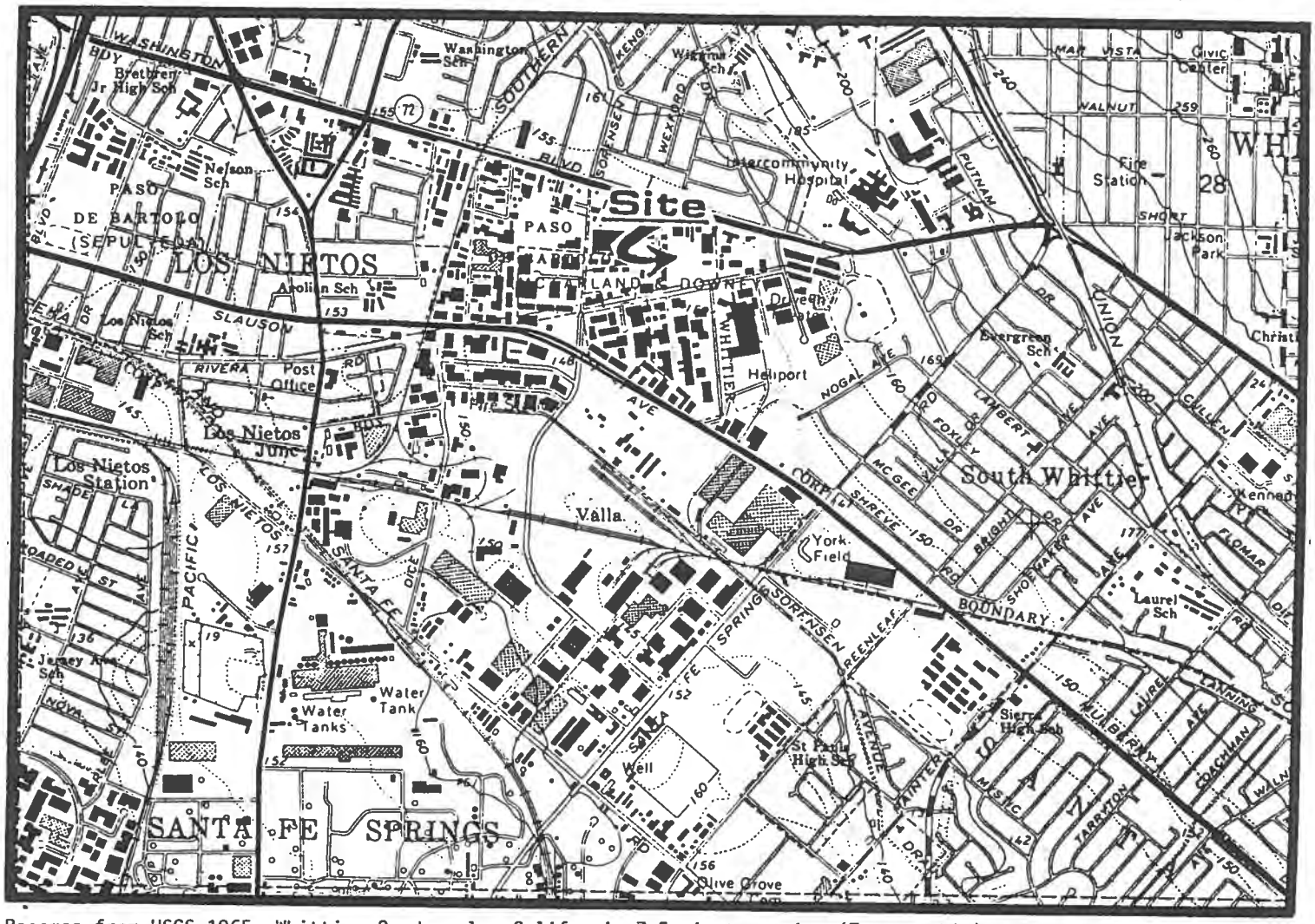
Clayton Environmental Consultants, Inc. was retained by Foss Plating Company, through Mr. Larry Foss, Secretary Treasurer, to conduct a Preliminary Environmental Assessment (PEA) of the Foss Plating Company facility located at 8140 Secure Way in Santa Fe Springs, California (Figure 1).

The purpose of this PEA was to assess the likelihood of chemical contamination resulting from present and previous activities on or near the property. Clayton's assessment included the following: a field survey, review of public records, drive-by inspection of companies operating in the immediate vicinity, interviews with local and state agencies, and a review of available regional and local geologic and hydrogeologic information. No physical sampling of architectural, industrial, agricultural or other anthropogenic material, soils, groundwater or gases was conducted.

This PEA was conducted by Mr. Ken Vernon, Associate Geologist from Clayton's Cypress, California office. Mr. Vernon conducted the field survey on March 24, 1989. During this survey, Mr. Vernon inspected the property for areas of environmental concern using visual evidence of environmental degradation, such as ground staining and stressed vegetation. During the inspection, special focus was given to locating electrical transformers and underground chemical storage tanks in the vicinity of the property.

In addition, records of the following agencies were inspected:

- California Department of Conservation, Division of Mines and Geology
- California Regional Water Quality Control Board, Los Angeles Region Office
- City of Santa Fe Springs Building Department



NORTH

Basemap from USGS 1965, Whittier Quadrangle, California 7.5 minute series (Topographic) photorevised 1981.

0 .20 .40

Scale: 1 inch = .40

Clayton Environmental Consultants, Inc.	Figure
SITE LOCATION AND TOPOGRAPHY	1
Castillo Co., Inc. Project No. 22419.00	4/89

- City of Santa Fe Springs Planning Department
- Whittier College, Department of Geology (Fairchild Aerial Photography Collection)

Clayton gathered information through interviews with the following local and county agencies and businesses:

- City of Santa Fe Springs Public Works Department
- Los Angeles County Department of Public Works, Hydrogeologic Records Division
- Southern California Edison

In the following sections, Clayton presents the findings of the PEA and our conclusions and recommendations.

2.0 PROPERTY DESCRIPTION

2.1 PRESENT SITE AND ADJACENT CONDITIONS

The Foss Plating Company is located east of the intersection of Secura Way and Rivera Road, at 8140 Secura Way. The subject property is a rectilinear area of approximately 16,000 square feet. The 9,200-square foot facility building is of concrete block construction. Figure 2 shows a general plot plan of the facility.

Onsite operations consist of decorative chrome plating, using nickel and chromium compounds. At the time of the site visit, the facility was in full operation.

The main facility building, located at 8140 Secura Way, houses the company offices and production area. The northwest portion of the building is used as office space. The remainder of the building houses the production area.

Located along the east wall of the building are several large, open-top above-ground rectangular metal tanks that form the process line of the facility. These tanks contain the chemical compounds and rinses into which metals parts are dipped as part of the plating process. The tanks rest on a cement floor and are contained within cement dikes. The dikes are designed to contain any spilled tank contents. Any spilled liquids would flow to small collection sumps located within the diked areas. The sumps are pumped out periodically through the use of a portable vacuum pump and above-ground lines. The sump contents are routed to a clarifier system located on the west side of the facility. Water leaving the clarifier is routed to the sewer system. This outflow stream is monitored daily by Foss Plating and quarterly by the Los Angeles County Sanitation District. The clarifier is emptied on a quarterly basis. Waste collected from the clarifier system is stored in a metal, rectangular above-ground tank located adjacent to the clarifier system. The contents are properly disposed under manifest through a licensed waste disposal service.

In addition to the dikes and clarifier system, a spill containment drain system is also utilized to control potential surface runoff. The drain is located just west of the clarifier system, near the west edge of the site.

The remainder of the main building contains the metal polishing area, located in the south and southeastern parts of the building, and the packing and stripping areas located in the central northern portion of the building. The remainder of the property is occupied by an asphalt parking lot, located on the west side of the facility.

There was no staining noted on the cement floor of the facility, or within the diked area adjacent to the tanks. Additionally, there was no other evidence of past spillage noted within the facility or near the spill containment drain.

There is an elevated wooden walkway located just west of the processing tanks. There was a somewhat thick layer of dust on the walkway; however, it was dry.

With the exception of the small above-ground tanks discussed in Section 3.1, there were no other chemical storage areas noted onsite at 8140 Secura Way during our site inspection.

As stated, the facility is located in an industrialized section of the city. Some of the surrounding businesses include FC Woodworkings, located at 8118 Secura Way; J & S Machine, located at 8119 Secura Way; and AH Fasteners, located at 11987 Rivera Road.

2.2 SITE HISTORY

Foss Plating has been in operation at their present location since 1968. An inspection of records of the Santa Fe Springs Building Department failed to give any indication of prior occupants.

Historical aerial photographs were reviewed to assess past land use of the property and adjacent areas. The Fairchild Aerial Photography Collection, located at Whittier College, provided aerial photographs from 1928, 1937, 1945, 1946, 1947, 1949, 1953, 1955, 1957, and 1959 for our review. None of the photographs reviewed showed evidence of waste disposal or indications of other environmental concerns on the site or adjacent property. In addition, no structures were shown onsite in any of the photographs.

The photographs from 1928 to 1937 show the site to be vacant land containing furrows, indicating cultivation. The surrounding areas appear to have been very similar. No structures are shown in the immediate vicinity of the property.

The photographs from 1945 to 1955 differ from earlier photos only in that areas surrounding the site appear sparsely populated. Structures that appear to be single-family homes are located in the western and northwestern portions of the photographs.

The site is still shown to be vacant, cultivated land in the 1957 and 1959 photographs. Areas surrounding the site appear more heavily populated, predominantly to the west, northwest, and southwest.

2.3 SITE GEOLOGY AND TOPOGRAPHY

The property is located in the northwestern portion of the Peninsular Ranges geomorphic province of southern California. It is situated on the central block of the Los Angeles Basin, a structural syncline (downfold) that is filled primarily with fluvial deposits of silt, sand, and gravel.

The San Gabriel Mountains are located approximately 15 miles north of the property, and the Pacific Ocean lies approximately 15 miles south of the site. Local topographic features include the Puente Hills, which are located approximately 2 miles northeast of the property, and the San Gabriel River, which is located approximately 2 miles to the west.

The facility is located on the floodplain of the San Gabriel River, at an elevation of approximately 154 feet above mean sea level. Regional and local surface drainage patterns trend to the southwest, indicating that surface runoff water from the site should move in a southwesterly direction. A surface runoff collection channel is located along the western edge of the facility. This appears to be the nearest surface runoff water collection structure. This channel routes collected runoff to a small sump located on the west side of the facility. In addition, storm drains are located west of the property, along Secura Way.

The regional groundwater flow direction is southwest toward the Pacific Ocean. The local gradient under the site may be influenced naturally by zones of higher permeability, or

artificially by nearby well pumping or recharge, and may deviate from the regional southwest trend. According to the hydrogeologic records of the Los Angeles County Department of Public Works, depth to first groundwater in the area is approximately 65 feet below ground surface (bgs).

The area is located in a Zone C flood hazard zone as defined by the Federal Emergency Management Agency. According to that agency, this is an area of minimal flooding.

No known faults are shown on available published geologic maps as transecting the site. In addition, the area is not located within a fault-rupture hazard zone as defined by the 1972 Alquist-Priolo Special Studies Zone Act. The facility is located within 2-1/2 miles of the Whittier Fault Zone, which has exhibited recent seismic activity. Therefore, the site could be subjected to strong ground motion during seismic events originating from this fault system.

3.0 ENVIRONMENTAL CONCERNS

3.1 ONSITE CONCERNS

There are two small above-ground tanks located within the main facility building. A small 250-gallon above-ground tank containing 1,1,1 trichloroethane (TCA), which is used in a degreaser, is located in the plating area. The tank rests on legs above the cement floor.

In addition, a small 55-gallon above-ground tank containing "Safety Solvent" is located in the southwest corner of the building in the polishing area. This tank also rests on legs above the cement floor slab.

There is a spill collection drain located west of the building that would impede surface runoff originating from these two tanks, restricting or possibly preventing offsite flow. There is the possibility that this collection drain would not completely contain possible overflows.

There are fluorescent lights used within the facility. There is a possibility that the light ballasts contain polychlorinated biphenyls (PCBs).

3.2 OFFSITE CONCERNS

As previously stated, the site is located in an industrialized section of Santa Fe Springs. Several sites located within 1 mile of the facility are listed on various environmental regulatory agency lists.

A review of the Hazardous Waste and Substances Sites List, prepared by the California Governor's Office, revealed that ten of the listed sites are within 1 mile of the facility. Five of these sites are indicated as having had "tank leaks" onsite. Of these five, only two are located hydrologically and topographically upgradient of the Foss Plating facility, but are at lateral distances that indicate that they would be of minimal threat to the property. Hydrologic gradient assessments are based on the regional hydrologic gradient obtained from published isobath maps. Topographic gradient assessments are based on elevation changes noted on published topographic maps.

A review of the Environmental Protection Agency's (EPAs) CERCLIS list showed that nine of the listed sites are within 1 mile of the facility. Three of these sites are located upgradient of the subject property. However, these also are at lateral distances that indicate that they would be of minimal threat to the subject site.

The Resource Conservation and Recovery Act (RCRA) database compiled by the EPA was also reviewed. Ten of the sites listed on this database are located within 1 mile of the subject property. Nine of these are also listed on the CERCLIS list discussed previously. The tenth site is located approximately 3/4-mile downgradient of the site and, therefore, poses low potential for adversely impacting the facility.

Also reviewed was the Underground Tank Database List compiled by the Los Angeles Region office of the California Regional Water Quality Control Board. Located within 1 mile of the property are two of the sites listed on this database. However, both sites are located downgradient of the facility and appear to present little threat to the site.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the site inspection, personnel interviews, records search, aerial photography review, and available geologic and hydrogeologic information, Clayton concludes the following:

- The above-ground TCA and "Safety Solvent" storage tanks are possible sources of hazardous material spillage.
- The fluorescent light ballasts used onsite may contain PCBs.
- There are sites listed on various environmental regulatory agency lists that are located within 1 mile of the subject property. However, these appear to be of minimal threat to the site.

Based on these conclusions, Clayton makes the following recommendations:

- It is recommended that the above-ground storage tanks be contained within spill retention berms or dikes.
- Lights located onsite should be replaced, during any remodeling of the facility, with lighting fixtures known to be non-PCB containing. The old fixtures should be properly disposed. If 25 ballasts or more are disposed at one time, they must be disposed as hazardous waste.

Clayton further concludes that the property poses a low risk with respect to environmental hazards.

The information and conclusions supplied in this report are given in response to a limited assignment. We accept responsibility for the competent performance of our duties in executing the assignment and preparing this report in accordance with the normal standards of our profession, but disclaim any responsibility for consequential damages.

This report prepared by: Kenneth J. Vernon

Kenneth J. Vernon
Geologist

This report approved by: David H. Randell

David H. Randell, R.G.
Supervisor, Environmental Engineering
Southern California Operations

FOSS PLATING COMPANY
8140 Secura Way
Santa Fe Springs

SOIL TESTING-1999

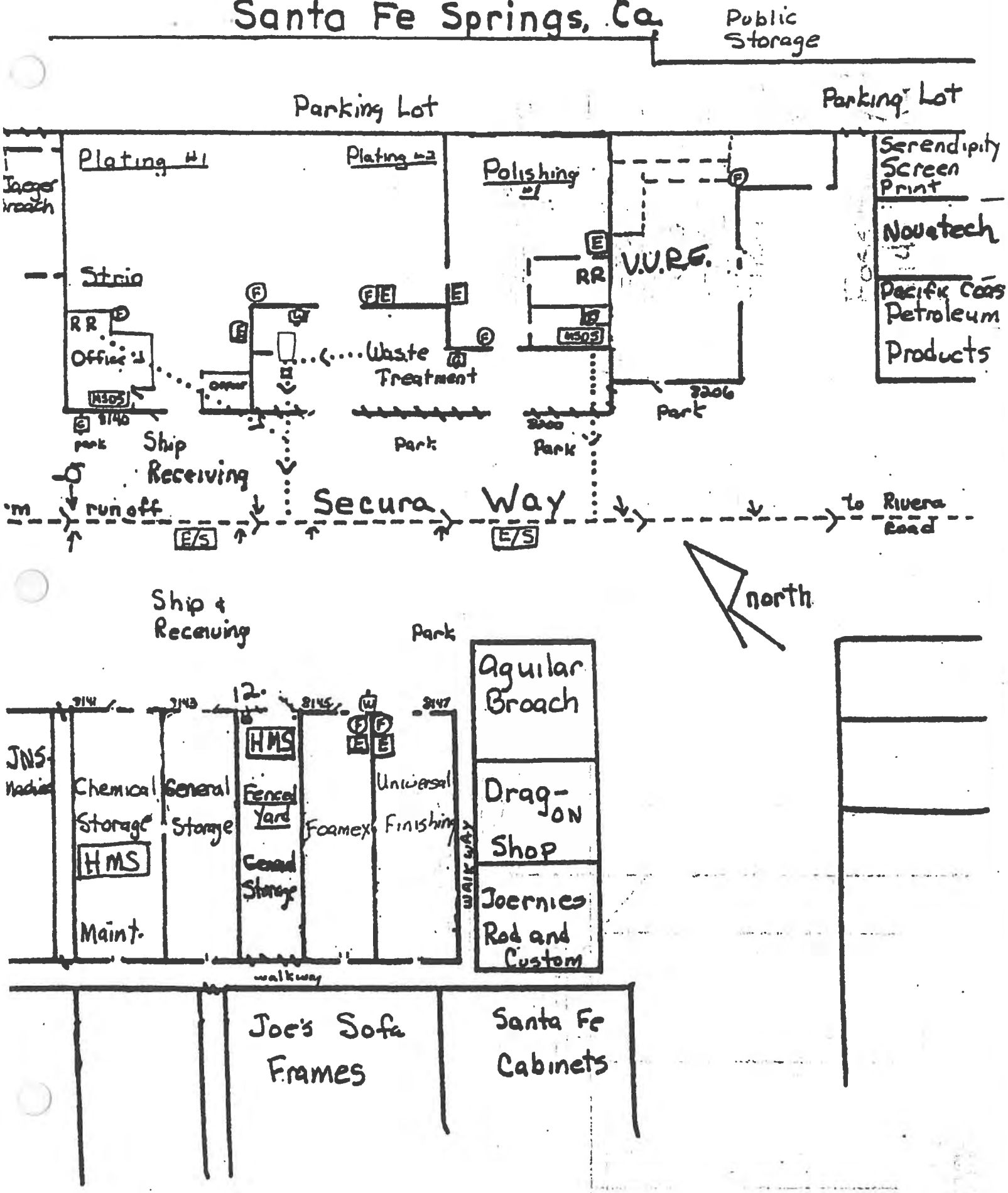
In March, 1999 Foss Plating did our first soil testing in the outside wastewater treatment area. See attached site map.

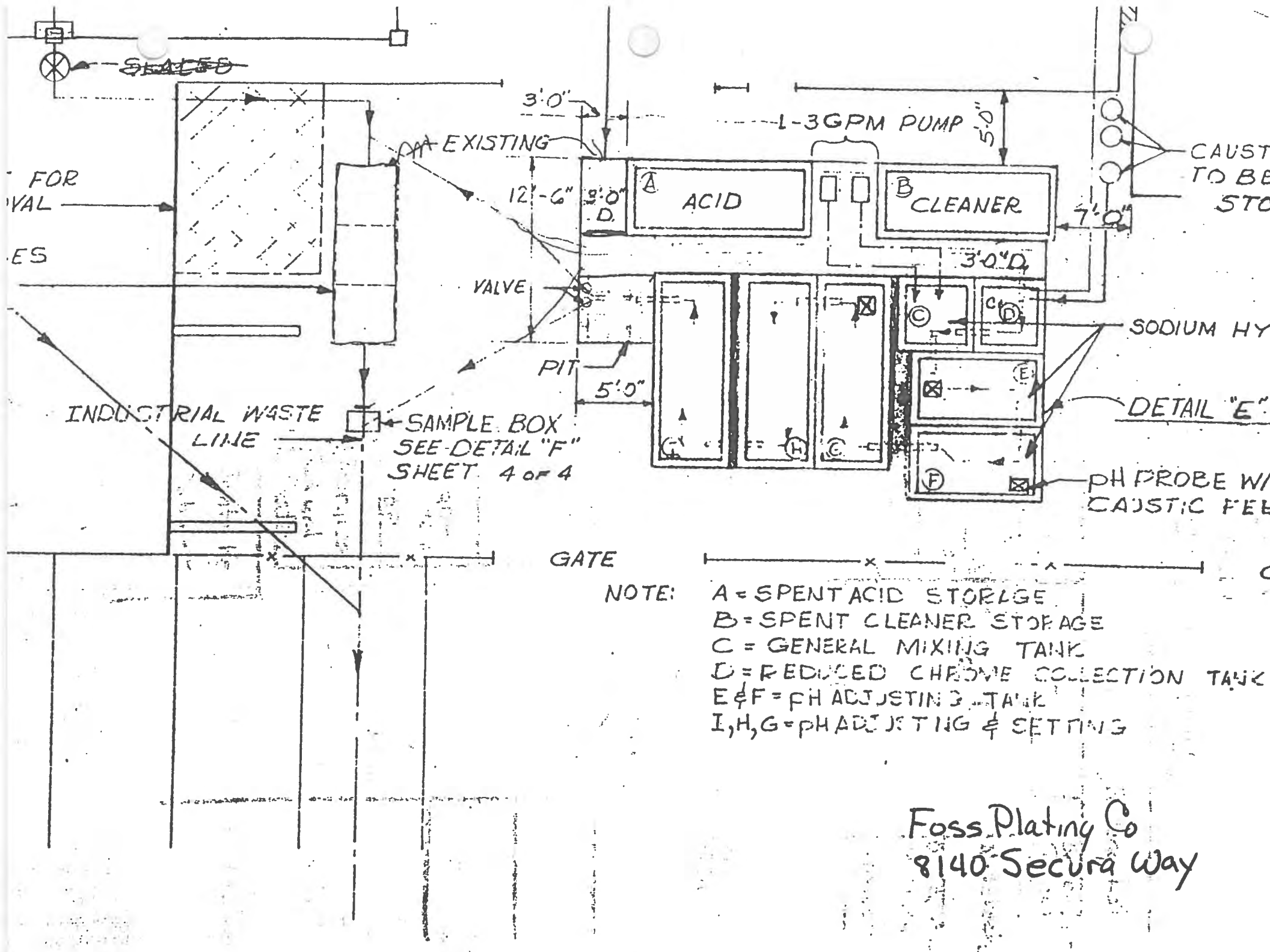
The samples were taken by our staff at 6" and 12", and was conducted for our information. Samples were analyzed by Western Analytical Laboratories. Testing results were for pH, Chromium, nickel and VOCs.

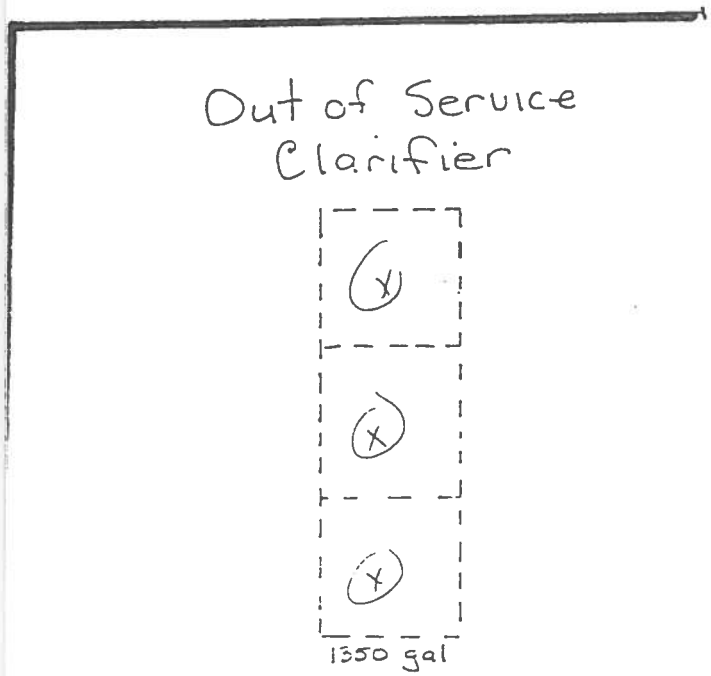
Results showed some Chromium and Nickel in most areas. Nickel and Chromium was below 25 mg/kg in most areas.. In one area Total Chrome was found at 76.5 mg/kg and Nickel at 100 mg/kg. In another area Total Chromium was at 97.3 and Nickel was 301 mg/kg. In testing for VOCs, only small amounts of Tetrachloroethene, 1-4 ug/kg, was found in most areas, and 48 ug/kg at 6" was found in one area.

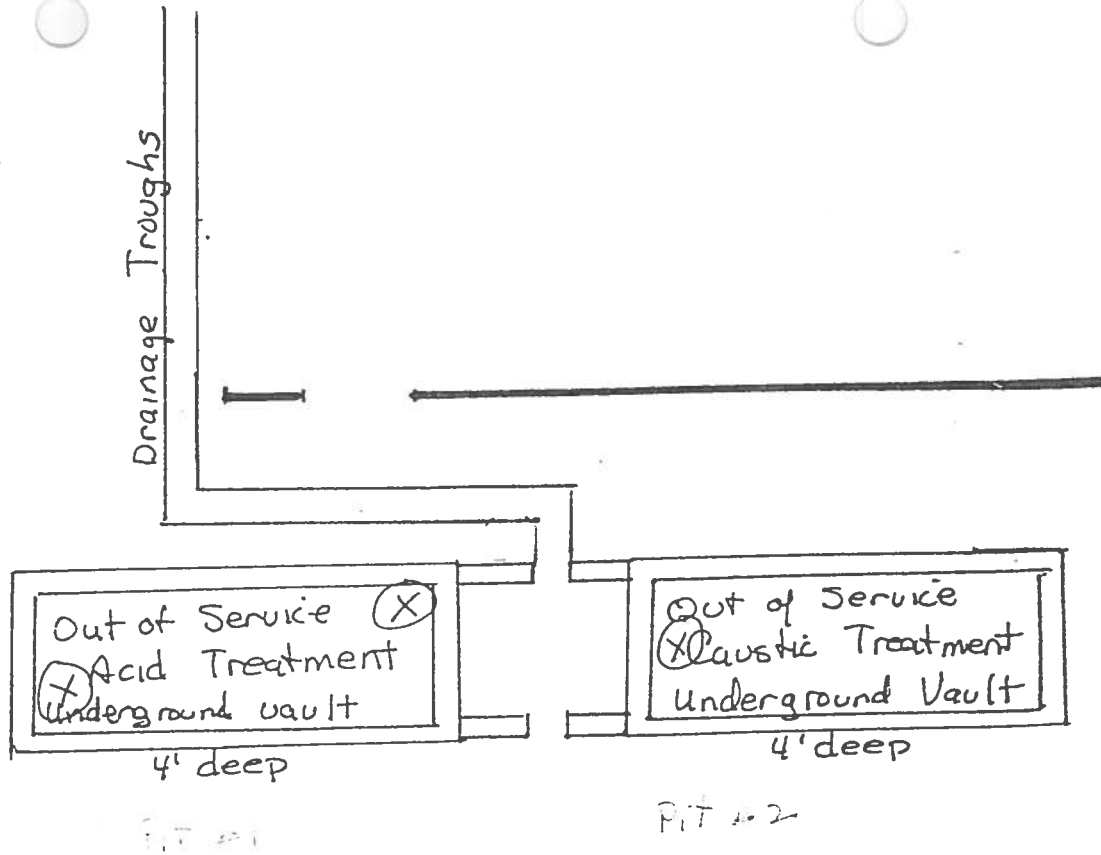
See attached full lab results.

POSS PLATING CO.
8140 Secura Way
Santa Fe Springs, Ca.




~~SLACED~~
FOR
VAL
ES
3'-0"
EXISTING
12'-6"
9'-0" D.
1-3GPM PUMP
5'-0"
A
ACID
B
CLEANER
7'-0"
3'-0" D.
CAUST
TO BE
STO
VALVE
PIT
5'-0"
C
D
SODIUM HY
E
DETAIL "E"
INDUSTRIAL WASTE LINE
SAMPLE BOX SEE DETAIL "F" SHEET 4 OF 4
G
H
I
F
pH PROBE W/
CAUSTIC FEE
GATE
NOTE: A = SPENT ACID STORAGE
B = SPENT CLEANER STORAGE
C = GENERAL MIXING TANK
D = REDUCED CHROME COLLECTION TANK
E & F = pH ADJUSTING TANK
I, H, G = pH ADJUSTING & SETTING
Foss Plating Co
8140 Secura Way





FOSS PLATING COMPANY INC

OUT-OF-SERVICE CLARIFIER
OUT-OF-SERVICE UNDERGROUND VAULTS

TENTATIVE SAMPLE POINTS
AUGUST, 1998

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE - CHINO, CALIFORNIA 91710-5512 - PHONE (909) 627-3628 - FAX (909) 627-0491 - E-MAIL wal@tritonramp.com

DATE RECEIVED: 03/09/99 WAL NO.: 99030113
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. SW20
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670
ATTENTION: Victor Foss F620
SAMPLE I.D.: Soil Sample
SAMPLE POINT: 1st Pit 6"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
pH		9.2			EPA 9040
Chromium(total)		25.4	mg/kg	0.07	EPA 6010
Chromium(hex)	<	0.2	mg/kg	0.2	EPA 7196
Nickel		16.9	mg/kg	0.15	EPA 6010

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE - CHINO, CALIFORNIA 91710-5512 - PHONE (909) 627-3628 - FAX (909) 627-0491 - E-MAIL wal@tiltonramp.com

DATE RECEIVED: 03/09/99 WAL NO.: 99030113
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. 8010
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670 F620
ATTENTION: Victor Foss
SAMPLE I.D.: Soil Sample
SAMPLE POINT: 1st Pit 6"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
Halogenated Volatile Organics					EPA 8010
Bromodichloromethane	<	1	ug/kg	1	
Bromoform	<	1	ug/kg	1	
Bromomethane	<	1	ug/kg	1	
Carbon tetrachloride	<	1	ug/kg	1	
Chlorobenzene	<	1	ug/kg	1	
Chloroethane	<	1	ug/kg	1	
2-Chloroethylvinyl ether	<	1	ug/kg	1	
Chloroform	<	1	ug/kg	1	
Chloromethane	<	1	ug/kg	1	
Dibromochloromethane	<	1	ug/kg	1	
1,2-Dichlorobenzene	<	1	ug/kg	1	
1,3-Dichlorobenzene	<	1	ug/kg	1	
1,4-Dichlorobenzene	<	1	ug/kg	1	
1,1-Dichloroethane	<	1	ug/kg	1	
1,2-Dichloroethane	<	1	ug/kg	1	
1,1-Dichloroethene	<	1	ug/kg	1	
trans-1,2-Dichloroethene	<	1	ug/kg	1	
1,2-Dichloropropane	<	1	ug/kg	1	
cis-1,3-Dichloropropene	<	1	ug/kg	1	
trans-1,3-Dichloropropene	<	1	ug/kg	1	
Methylene chloride	<	1	ug/kg	1	
1,1,2,2-Tetrachloroethane	<	1	ug/kg	1	
Tetrachloroethene		4	ug/kg	1	
1,1,1-Trichloroethane	<	1	ug/kg	1	
1,1,2-Trichloroethane	<	1	ug/kg	1	
Trichloroethene	<	1	ug/kg	1	
Trichlorofluoromethane	<	1	ug/kg	1	
Vinyl chloride	<	1	ug/kg	1	

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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DATE RECEIVED: 03/09/99 WAL NO.: 99030114
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. SW20
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670
ATTENTION: Victor Foss F620
SAMPLE I.D.: Soil Sample
SAMPLE POINT: 1st Pit 12"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
pH		10.2			EPA 9040
Chromium(total)		24.2	mg/kg	0.07	EPA 6010
Chromium(hex)	<	0.2	mg/kg	0.2	EPA 7196
Nickel		18.7	mg/kg	0.15	EPA 6010

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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DATE RECEIVED: 03/09/99 WAL NO.: 99030114
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. 8010
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670 F620
ATTENTION: Victor Foss
SAMPLE I.D.: Soil Sample
SAMPLE POINT: 1st Pit 12"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
Halogenated Volatile Organics					EPA 8010
Bromodichloromethane	<	1	ug/kg	1	
Bromoform	<	1	ug/kg	1	
Bromomethane	<	1	ug/kg	1	
Carbon tetrachloride	<	1	ug/kg	1	
Chlorobenzene	<	1	ug/kg	1	
Chloroethane	<	1	ug/kg	1	
2-Chloroethylvinyl ether	<	1	ug/kg	1	
Chloroform	<	1	ug/kg	1	
Chloromethane	<	1	ug/kg	1	
Dibromochloromethane	<	1	ug/kg	1	
1,2-Dichlorobenzene	<	1	ug/kg	1	
1,3-Dichlorobenzene	<	1	ug/kg	1	
1,4-Dichlorobenzene	<	1	ug/kg	1	
1,1-Dichloroethane	<	1	ug/kg	1	
1,2-Dichloroethane	<	1	ug/kg	1	
1,1-Dichloroethene	<	1	ug/kg	1	
trans-1,2-Dichloroethene	<	1	ug/kg	1	
1,2-Dichloropropane	<	1	ug/kg	1	
cis-1,3-Dichloropropene	<	1	ug/kg	1	
trans-1,3-Dichloropropene	<	1	ug/kg	1	
Methylene chloride	<	1	ug/kg	1	
1,1,2,2-Tetrachloroethane	<	1	ug/kg	1	
Tetrachloroethene	<	1	ug/kg	1	
1,1,1-Trichloroethane	<	1	ug/kg	1	
1,1,2-Trichloroethane	<	1	ug/kg	1	
Trichloroethene	<	1	ug/kg	1	
Trichlorofluoromethane	<	1	ug/kg	1	
Vinyl chloride	<	1	ug/kg	1	

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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DATE RECEIVED: 03/09/99
DATE REPORTED: 04/05/99
WAL NO.: 99030115
CUSTOMER: FOSS PLATING CO., INC.
SW20
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670
ATTENTION: Victor Foss
F620
SAMPLE I.D.: Soil Sample
SAMPLE POINT: Pit #1 6"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
pH		9.0			EPA 9040
Chromium(total)		76.5	mg/kg	0.07	EPA 6010
Chromium(hex)	<	0.2	mg/kg	0.2	EPA 7196
Nickel		100	mg/kg	0.15	EPA 6010

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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DATE RECEIVED: 03/09/99 WAL NO.: 99030115
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. 8010
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670 F620
ATTENTION: Victor Foss
SAMPLE I.D.: Soil Sample
SAMPLE POINT: Pit #1 6"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
Halogenated Volatile Organics					EPA 8010
Bromodichloromethane	<	1	ug/kg	1	
Bromoform	<	1	ug/kg	1	
Bromomethane	<	1	ug/kg	1	
Carbon tetrachloride	<	1	ug/kg	1	
Chlorobenzene	<	1	ug/kg	1	
Chloroethane	<	1	ug/kg	1	
2-Chloroethylvinyl ether	<	1	ug/kg	1	
Chloroform	<	1	ug/kg	1	
Chloromethane	<	1	ug/kg	1	
Dibromochloromethane	<	1	ug/kg	1	
1,2-Dichlorobenzene	<	1	ug/kg	1	
1,3-Dichlorobenzene	<	1	ug/kg	1	
1,4-Dichlorobenzene	<	1	ug/kg	1	
1,1-Dichloroethane	<	1	ug/kg	1	
1,2-Dichloroethane	<	1	ug/kg	1	
1,1-Dichloroethene	<	1	ug/kg	1	
trans-1,2-Dichloroethene	<	1	ug/kg	1	
1,2-Dichloropropane	<	1	ug/kg	1	
cis-1,3-Dichloropropene	<	1	ug/kg	1	
trans-1,3-Dichloropropene	<	1	ug/kg	1	
Methylene chloride	<	1	ug/kg	1	
1,1,2,2-Tetrachloroethane	<	1	ug/kg	1	
Tetrachloroethene		48	ug/kg	1	
1,1,1-Trichloroethane	<	1	ug/kg	1	
1,1,2-Trichloroethane	<	1	ug/kg	1	
Trichloroethene	<	1	ug/kg	1	
Trichlorofluoromethane	<	1	ug/kg	1	
Vinyl chloride	<	1	ug/kg	1	

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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DATE RECEIVED: 03/09/99 WAL NO.: 99030116
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. SW20
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670
ATTENTION: Victor Foss F620
SAMPLE I.D.: Soil Sample
SAMPLE POINT: Pit #1 12"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
pH		8.4			EPA 9040
Chromium(total)		97.3	mg/kg	0.07	EPA 6010
Chromium(hex)	<	0.2	mg/kg	0.2	EPA 7196
Nickel		301	mg/kg	0.15	EPA 6010

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

13744 MONTE VISTA AVENUE - CHINO, CALIFORNIA 91710-5512 - PHONE (909) 627-3628 - FAX (909) 627-0491 - E-MAIL wal@tstonramp com

DATE RECEIVED: 03/09/99 WAL NO.: 99030116
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. 8010
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670 F620
ATTENTION: Victor Foss
SAMPLE I.D.: Soil Sample
SAMPLE POINT: Pit #1 12"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
Halogenated Volatile Organics					EPA 8010
Bromodichloromethane	<	1	ug/kg	1	
Bromoform	<	1	ug/kg	1	
Bromomethane	<	1	ug/kg	1	
Carbon tetrachloride	<	1	ug/kg	1	
Chlorobenzene	<	1	ug/kg	1	
Chloroethane	<	1	ug/kg	1	
2-Chloroethylvinyl ether	<	1	ug/kg	1	
Chloroform	<	1	ug/kg	1	
Chloromethane	<	1	ug/kg	1	
Dibromochloromethane	<	1	ug/kg	1	
1,2-Dichlorobenzene	<	1	ug/kg	1	
1,3-Dichlorobenzene	<	1	ug/kg	1	
1,4-Dichlorobenzene	<	1	ug/kg	1	
1,1-Dichloroethane	<	1	ug/kg	1	
1,2-Dichloroethane	<	1	ug/kg	1	
1,1-Dichloroethene	<	1	ug/kg	1	
trans-1,2-Dichloroethene	<	1	ug/kg	1	
1,2-Dichloropropane	<	1	ug/kg	1	
cis-1,3-Dichloropropene	<	1	ug/kg	1	
trans-1,3-Dichloropropene	<	1	ug/kg	1	
Methylene chloride	<	1	ug/kg	1	
1,1,2,2-Tetrachloroethane	<	1	ug/kg	1	
Tetrachloroethene		4	ug/kg	1	
1,1,1-Trichloroethane	<	1	ug/kg	1	
1,1,2-Trichloroethane	<	1	ug/kg	1	
Trichloroethene	<	1	ug/kg	1	
Trichlorofluoromethane	<	1	ug/kg	1	
Vinyl chloride	<	1	ug/kg	1	

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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WAL NO.: 99030117

DATE RECEIVED: 03/09/99
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. SW20
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670
ATTENTION: Victor Foss F620
SAMPLE I.D.: Soil Sample
SAMPLE POINT: Pit #2 6"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
pH		10.0			EPA 9040
Chromium(total)		26.2	mg/kg	0.07	EPA 6010
Chromium(hex)	<	0.2	mg/kg	0.2	EPA 7196
Nickel		17.3	mg/kg	0.15	EPA 6010

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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DATE RECEIVED: 03/09/99
DATE REPORTED: 04/05/99 WAL NO.: 99030117
CUSTOMER: FOSS PLATING CO., INC.
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670 8010 F620
ATTENTION: Victor Foss
SAMPLE I.D.: Soil Sample
SAMPLE POINT: Pit #2 6"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
Halogenated Volatile Organics					EPA 8010
Bromodichloromethane	<	1	ug/kg	1	
Bromoform	<	1	ug/kg	1	
Bromomethane	<	1	ug/kg	1	
Carbon tetrachloride	<	1	ug/kg	1	
Chlorobenzene	<	1	ug/kg	1	
Chloroethane	<	1	ug/kg	1	
2-Chloroethylvinyl ether	<	1	ug/kg	1	
Chloroform	<	1	ug/kg	1	
Chloromethane	<	1	ug/kg	1	
Dibromochloromethane	<	1	ug/kg	1	
1,2-Dichlorobenzene	<	1	ug/kg	1	
1,3-Dichlorobenzene	<	1	ug/kg	1	
1,4-Dichlorobenzene	<	1	ug/kg	1	
1,1-Dichloroethane	<	1	ug/kg	1	
1,2-Dichloroethane	<	1	ug/kg	1	
1,1-Dichloroethene	<	1	ug/kg	1	
trans-1,2-Dichloroethene	<	1	ug/kg	1	
1,2-Dichloropropane	<	1	ug/kg	1	
cis-1,3-Dichloropropene	<	1	ug/kg	1	
trans-1,3-Dichloropropene	<	1	ug/kg	1	
Methylene chloride	<	1	ug/kg	1	
1,1,2,2-Tetrachloroethane	<	1	ug/kg	1	
Tetrachloroethene		1	ug/kg	1	
1,1,1-Trichloroethane	<	1	ug/kg	1	
1,1,2-Trichloroethane	<	1	ug/kg	1	
Trichloroethene	<	1	ug/kg	1	
Trichlorofluoromethane	<	1	ug/kg	1	
Vinyl chloride	<	1	ug/kg	1	

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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DATE RECEIVED: 03/09/99 WAL NO.: 99030118
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. SW20
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670
ATTENTION: Victor Foss F620
SAMPLE I.D.: Soil Sample
SAMPLE POINT: Pit #2 12"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
pH		9.9			EPA 9040
Chromium(total)		34.5	mg/kg	0.07	EPA 6010
Chromium(hex)	<	0.2	mg/kg	0.2	EPA 7196
Nickel		34.3	mg/kg	0.15	EPA 6010

Joseph P. Zimmer
Laboratory Director

WESTERN ANALYTICAL LABORATORIES, INC.

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DATE RECEIVED: 03/09/99 WAL NO.: 99030118
DATE REPORTED: 04/05/99
CUSTOMER: FOSS PLATING CO., INC. 8010
ADDRESS: 8140 Secura Way, Santa Fe Springs, CA 90670 F620
ATTENTION: Victor Foss
SAMPLE I.D.: Soil Sample
SAMPLE POINT: Pit #2 12"
SAMPLED BY: Customer
DATE & TIME SAMPLED: 03/09/99

PARAMETER		VALUE	UNIT	DETECTION LIMIT	METHOD
Halogenated Volatile Organics					EPA 8010
Bromodichloromethane	<	1	ug/kg	1	
Bromoform	<	1	ug/kg	1	
Bromomethane	<	1	ug/kg	1	
Carbon tetrachloride	<	1	ug/kg	1	
Chlorobenzene	<	1	ug/kg	1	
Chloroethane	<	1	ug/kg	1	
2-Chloroethylvinyl ether	<	1	ug/kg	1	
Chloroform	<	1	ug/kg	1	
Chloromethane	<	1	ug/kg	1	
Dibromochloromethane	<	1	ug/kg	1	
1,2-Dichlorobenzene	<	1	ug/kg	1	
1,3-Dichlorobenzene	<	1	ug/kg	1	
1,4-Dichlorobenzene	<	1	ug/kg	1	
1,1-Dichloroethane	<	1	ug/kg	1	
1,2-Dichloroethane	<	1	ug/kg	1	
1,1-Dichloroethene	<	1	ug/kg	1	
trans-1,2-Dichloroethene	<	1	ug/kg	1	
1,2-Dichloropropane	<	1	ug/kg	1	
cis-1,3-Dichloropropene	<	1	ug/kg	1	
trans-1,3-Dichloropropene	<	1	ug/kg	1	
Methylene chloride	<	1	ug/kg	1	
1,1,2,2-Tetrachloroethane	<	1	ug/kg	1	
Tetrachloroethene		2	ug/kg	1	
1,1,1-Trichloroethane	<	1	ug/kg	1	
1,1,2-Trichloroethane	<	1	ug/kg	1	
Trichloroethene	<	1	ug/kg	1	
Trichlorofluoromethane	<	1	ug/kg	1	
Vinyl chloride	<	1	ug/kg	1	

Joseph P. Zimmer
Laboratory Director

2004 Preliminary
Assessment

Preliminary Endangerment Assessment
Initial Report & Further Investigation Workplan

For

The Foss Plating Company, Inc. (FPCI) Site
8140 Secura Way
Santa Fe Springs, California

Prepared For:

Foss Plating Company, Inc.
Santa Fe Springs, California

Prepared By:

Jack's Environmental Technology, Inc.
327 West 132nd Street
Los Angeles, CA 90061

December 2004

FOSS PLATING COMPANY
8140 Secura Way
Santa Fe Springs, CA 90670

Subsurface Investigation September, 2004

A subsurface investigation at Foss Plating Company was conducted to determine if operations have contaminated the subsurface soil. Fieldwork was conducted on September 17, 2004 and September 24, 2004. This work was done under the over-site of Department of Toxic Substances Control, CAL EPA, in accordance with an approved work plan.

The consultant for this testing was Jack's Environmental Technology. Samples were taken by Kevin Berry, and analyzed by Enviro-Chem, Inc. The report was certified by John W. Matthews, PE.

As a result of testing, the following conclusions were made:

1. Soil contamination has been discovered at the site
2. Nickel and chromium are both potential constituents of concern
3. The lateral and vertical extend of the soil contamination has not been determined.
4. Volatile organic compounds have not been detected at significant levels.
5. Further investigation is called for.

Attached is a copy of the significant parts of the report, dated December, 2004 including lab test results.

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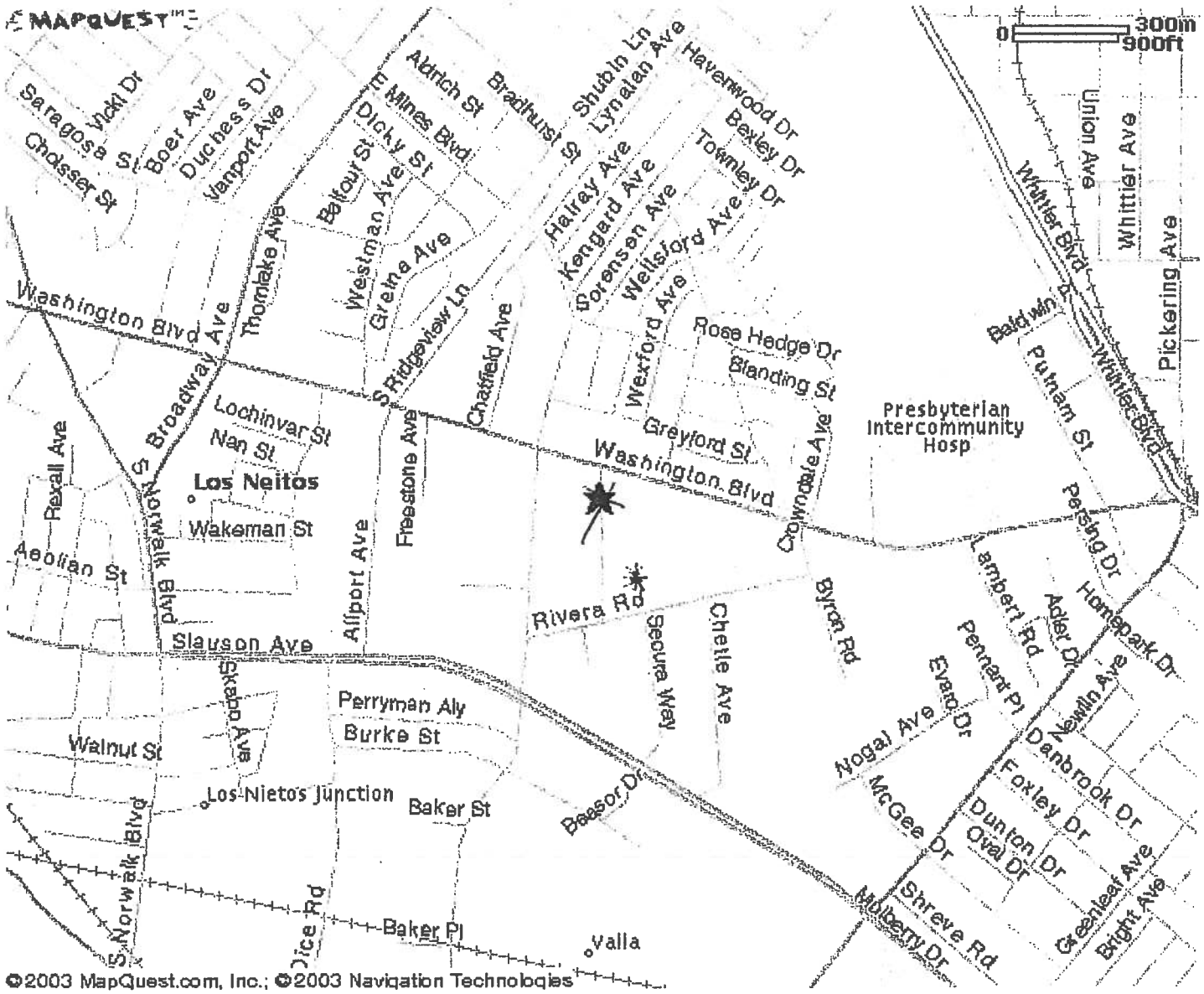
List of Attachments

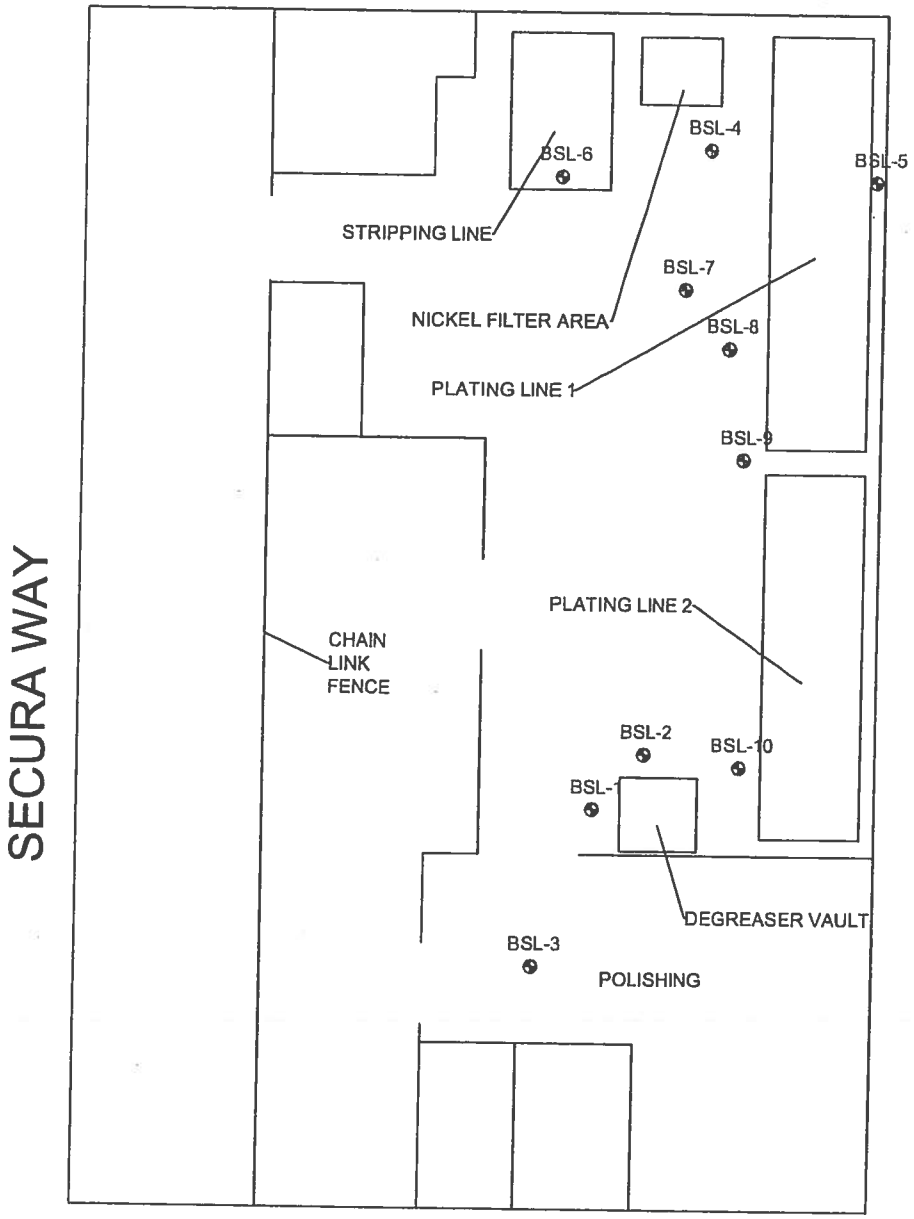
Attachment 1: Laboratory Reports
Attachment 2: Boring Logs
Attachment 3: Exposure Assumptions
Attachment 4: Additional Subsurface Investigation Workplan

Figure 1: Site Location Map



JACK'S ENVIRONMENTAL TECHNOLOGY, INC. (310) 532-2555 CSLB LICENSE # 818863 327 W. 132ND ST. LOS ANGELES, CA 90061	FIGURE 1: Location Map			
	Foss Plating Company, Inc., 8140 Secura Way, Santa Fe Springs, CA			
	JOHN W. MATTHEWS, P.E.		FPC041203-1	5/27/03
	SIZE: A	SCALE: SHOWN	REVISION 01	SHEET 1 OF 1

Figure 2: Sampling Locations



JACK'S ENVIRONMENTAL TECHNOLOGY, INC. (310) 532-2555 CSLB LICENSE # 818863 327 W. 132ND ST. LOS ANGELES, CA 90061	FIGURE 2: Site Plan (Sample Locations)		
	Foss Plating Company, Inc., 8140 Secura Way, Santa Fe Springs, CA		
	JOHN W. MATTHEWS, P.E.	FPC041203-2	5/1/03
	SIZE: A / SCALE: 1" = 25'	REVISION 01	SHEET 1 OF 1

1. INTRODUCTION

On 22 August 2002, a phase I environmental assessment inspection of the Foss Plating Company, Inc. (FPCI) site was conducted by representatives of the California Environmental Protection Agency's Department of Toxic Substances Control (DTSC) and the Santa Fe Springs Fire Department's Health Hazardous Materials Division. The inspection was conducted to verify information submitted to DTSC on a Further Investigation Questionnaire Checklist dated July 22, 2002, and a previously submitted Phase I Environmental Assessment Checklist.

As a result of the inspection and the review of the checklists, DTSC requested a further investigation of the areas of potential concern. The areas identified include the vicinity of the degreaser, the wet floor areas in the vicinities of plating lines 1 and 2, the nickel carbon filter and the metal stripping area.

A Preliminary Endangerment Assessment Work Plan, (PEAWP) was prepared to present specifications for performing the requested subsurface investigation to determine whether there is a significant risk to human health and the environment due to potential contamination at the site. The facility currently holds EPA ID # CAD008278236. The PEAWP was prepared in accordance with the California EPA's Preliminary Endangerment Assessment Guidance Manual, USEPA's Soil Screening Guidance, California EPA's Final Policy on Selecting Inorganic Constituents as Chemicals of Potential Concern and other State and Federal documents and information sources referenced in the bibliography.

2. SITE DESCRIPTION

2.1. Site Location

The site is located at 8140 Secura Way in Santa Fe Springs, Los Angeles County, California. The site is situated on the east side of Secura Way, north of the intersection of Secura Way and Rivera Road, approximately 3.9 miles Northeast of Santa Fe Springs City Hall. Santa Fe Springs is located approximately 15 miles southeast of downtown Los Angeles, California. Access to the site is from Secura Way to the west of the site. The Foss Plating Company, Inc., (FPCI), facility covers approximately 20,590 square feet, and is improved with two buildings: the Plating building (9,193 square feet); and the Polishing building (3,452 square feet). A Site Location Map is presented as Figure 1. The Site Plan is presented as Figure 2

2.2. Site History

Foss plating has been in operation at their present location since 1968. An inspection of records of the Santa Fe Springs Building Department failed to give any indication of prior occupants. A title search confirmed that the land was agricultural prior to being purchased by Foss Plating.

Historical aerial photographs were reviewed to assess past land use of the property and adjacent areas. The Fairchild Aerial Photography Collection, located at Whittier College, provided aerial photographs from 1928, 1937, 1945, 1946, 1947, 1949, 1953, 1955, 1957 and 1959 for our review. None of the photographs reviewed showed evidence of waste disposal or indications of other environmental concerns on the site or adjacent property. In addition, no structures were shown onsite in any of the photographs.

The photographs from 1928 to 1937 show the site to be vacant land containing furrows, indicating cultivation. The surrounding areas appear to have been very similar. No structures are shown in the immediate vicinity of the property.

The photographs from 1945 to 1955 differ from earlier photos only in that areas surrounding the site appear sparsely populated. Structures that appear to be single-family homes are located in the western and northwestern portions of the photographs.

The site is still shown to be vacant, cultivated land in the 1957 and 1959 photographs. Areas surrounding the site appear more heavily populated, predominantly to the west, northwest, and southwest.

3. FACILITY BACKGROUND

Land use within _ mile has been a mixture of small light industrial businesses, including several machine shops, and Mission Linen, an industrial laundry. Mission Linen did some subsurface testing along the storm water swale on Secura Way that runs by the Foss Plating location in the Spring of 2002. Results of the sampling are not publicly available.

Foss Plating Company operates under regulatory oversight by the Santa Fe Springs Fire Department (CUPA), South Coast Air Quality Management District, California State Water Resources Control Board, the Sanitation Districts of Los Angeles County and DTSC.

Recent assessments and investigations include testing for the Omega Superfund Site conducted just across the street and testing for Mission Linen on Secura Way near the FPCI office. FPCI removed an abandoned below ground clarifier under the oversight of the City of Santa Fe Springs, Health Hazardous Materials Division. No volatile organic compounds were detected in the soil samples taken beneath the removed clarifier. Arsenic was the only element that exceeded its residential PRG level (.39 mg/kg). In 1999, FPCI did a limited shallow soil investigation in the wastewater treatment area. The results of the Mission Linen investigation are not publicly available.

The groundwater sample collected by Roy F. Weston, Inc. as part of the Omega Chemical Superfund Groundwater Characterization Study contained 5.5 micrograms per liter (μg/l)

of perchlorethylene and 3 μg/l of trichlorethylene.

3.1. Operations

FPCI conducts metal plating of various metal components. There are two (2) plating lines and one (1) stripping line contained within the plating building. For almost thirty years nickel and chromium have been used as plating metals. Copper can be introduced to solutions either from copper wire used for hand racking, copper from the racks, or copper already on the parts to be plated. Large volumes of zinc parts were plated prior to 1974. The metal components are first cleaned with caustic, alkaline, and acid solutions, then plated with nickel, and chromium. The components to be plated were rinsed with water between each bath. Support operations included wastewater treatment, polishing, facility and equipment maintenance, and administration.

Wastes generated from the plating operations include spent plating solutions, and various process-related wastes. These wastes have historically been handled either as regulated hazardous wastes under the codes F006, or F001 or as wastes able to be processed by the on-site wastewater treatment facility (WWTF). Since 1968, FPCI has been shipping various wastes, whenever possible, for recycling rather than land disposal.

The facility operates a wastewater pretreatment system, and is working with city officials to upgrade that system to meet tiered permitting standards. The facility is submitting monthly progress reports to the CUPA. Investigation of those areas is not included in this investigation, but further investigation is to be conducted as units undergo partial closure during the upgrade process.

3.2. Current Operational Status

FPCI currently owns the property. The parts plating processes are still active. The three-stage clarifier has been removed as described in the Closure Report dated April, 2003.

3.3. Geologic Conditions

The property is located in the northwestern portion of the Peninsular Ranges geomorphic province of Southern California. It is situated on the central block of the Los Angeles Basin, a structural syncline (downfold) that is filled primarily with fluvial deposits of silt, sand, and gravel.

The San Gabriel Mountains are located approximately 15 miles north of the property, and the Pacific Ocean lies approximately 15 miles south of the site. Local topographic features include the Puente Hills, which are approximately 2 miles northeast of the property, and the San Gabriel River, which is located approximately 2 miles to the west.

The facility is located on the floodplain of the San Gabriel River, at an elevation of approximately 154 feet above mean sea level. Regional and local surface drainage patterns trend to the southwest, indicating that surface runoff water from the site should move in a southwesterly direction. A surface runoff collection channel is located along the west side of the building and is used for spill control, and collection of storm water run-off from the waste water treatment system. Storm water from the roofs and from the parking lots flow to a surface storm channel that runs down the center of Secure Way. Storm water flows South down this channel to Rivera Road, and continues West to a storm drain located at the corner of Rivera Road and Sorenson Avenue.

The regional groundwater flow direction is southwest toward the Pacific Ocean. The local gradient under the site may be influenced naturally by zones of higher permeability, or artificially by nearby well pumping or recharge, and may deviate from the regional southwest trend. According to the hydrogeologic records at the Los Angeles County Department of Public Works, depth to first groundwater in the area is approximately 65 feet below ground surface (bgs).

The area is located in a Zone C flood hazard zone as defined by the Federal Emergency Management Agency. According to that agency, this is an area of minimal flooding.

No known faults are shown on available published geologic maps as transecting the site. In addition, the area is not located within a fault-rupture hazard zone as defined by the 1972 Alquist-Priolo Special Studies Zone Act. The facility is located within 2-1/2 miles of the Whittier Fault Zone, which has exhibited recent seismic activity. Therefore, the site could be subjected to strong ground motion during seismic events originating from the fault system.

4. APPARENT PROBLEM

Nickel and hexavalent chromium contaminated soil have been found in the initial investigation. Significant levels of volatile organic compounds (VOC's) were not found in the soil samples. Perchlorethylene was found in only one shallow soil sample and was not detected in the sample from five feet below. The extents of the soil contamination have not been determined in this initial investigation.

To adequately assess the significance of the contamination it will be necessary to define the extent of contamination with additional sampling. The extent of the VOC contamination appears to be minimal, but this will be confirmed with a soil vapor sample.

The levels of nickel contamination may be significant, but it was not possible to sample beneath the contaminated soil with the limited access rig and hand auger used in the initial investigation. There appeared to be a solid barrier at a depth of approximately 5' below the concrete surface.

Representatives of Foss Plating have not been able to identify whether there may have been a vault or other concrete structure in this location in the past.

The hexavalent chromium contamination was highest in the samples from the greatest depth. The vertical extent cannot be extrapolated from this data. Deeper sampling will be required to determine if groundwater is threatened or impacted. Depth to first groundwater at the site is expected to be near 50 feet below grade. Hexavalent chromium as high as 850 mg/kg was found at a depth of 15 feet below grade. The Office of Environmental Health Hazard Assessment (OEHHA) has established a maximum contaminant goal for drinking water of 50 micrograms per liter of hexavalent chromium. Soil sampling at greater depths and collection of a grab sample of groundwater using a hydropunch will determine if groundwater is threatened or impacted.

5. ENVIRONMENTAL SETTING

The entire site is paved with either Portand cement or asphalt concrete. The site is considered to be downgradient from the Omega Chemical Superfund site, and PCE contamination in groundwater has been documented and appears to be due to the contaminant plume from the Omega site.

The site is located in an industrial/commercial zone of Santa Fe Springs. Commerce Department demographic data from the year 2000 Census indicate there were 21,510 people living in 5,729 housing units within a one-mile radius of the facility.

6. SAMPLING ACTIVITIES AND RESULTS

Several soil samples were taken at the site in accordance with the approved workplan. Not all proposed samples could be obtained due to subsurface refusal. All soil samples were screened in the field for the presence of volatile organic compounds using a qualitative headspace analysis with the field photoionization detector (PID) meter. Results of the screening readings were recorded on the boring logs (Attachment 2). None of the PID readings exceeded the SCAQMD contaminated soil guideline of 50 ppmv. All preselected samples were analyzed for VOC's using sampling protocol EPA method 5035 and GCMS EPA method 8260 B. An additional sample was analyzed for VOC constituents due to the presence of moisture and the field screening level exceeding the value obtained in designated sampling locations. None of the other non-designated sampling locations had detectable levels in the field screening for VOC's. The complete laboratory results are included in Attachment 1. The VOC results for detected constituents are summarized in Table 1 in this section. The potential significance of these results are discussed in the following section.

All soil samples were analyzed for CAM 17 metals. Background levels were established for the inorganic constituents and comparison to background levels has yielded the constituents of potential concern. Table 2 summarizes the results for the CAM metals and hexavalent chromium. Results that exceed two times the background level are highlighted in bold face print

in the table.

Cyanide was not detected in any of the soil samples. Cyanide does not appear to be a constituent of concern at this site.

TABLE 2: SOIL SAMPLE RESULTS

SAMPLE LOCATION	DEPTH	VOC's (mg/kg)							METALS (mg/kg)			
		Acetone	CBr3H	Naphthalene	PCE	Hexachlorobutadiene	123 tcb	124 tcb	Cr(VI)	Pb	Cr	Ni
RES. PRG		14000	62	1.7	0.48	6.2	na	62	30	150	210	1600
BSL-1	1 ft	na	na	na	Na	na	na	na	BL	152	BL	BL
	5ft	BL	BL	0.005	BL	BL	BL	BL	Na	Na	Na	Na
	10ft	BL	BL	BL	BL	BL	BL	BL	85.3	BL	131	BL
	15ft	NA	NA	NA	NA	NA	NA	NA	BL	BL	443	BL
BSL-2	1 ft	na	na	na	Na	na	na	na	BL	BL	BL	BL
	5ft	BL	0.06	BL	BL	BL	BL	BL	NA	NA	NA	NA
	10ft	0.026	0.137	BL	BL	BL	BL	BL	BL	BL	BL	BL
	15ft	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BSL-3	1 ft	na	na	na	Na	na	na	na	BL	BL	BL	BL
	5ft	0.042	BL	BL	0.01	BL	BL	BL	NA	NA	NA	NA
	10ft	BL	BL	BL	BL	BL	BL	BL				
	15ft	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BSL-4	1 ft	na	na	na	Na	na	na	na	BL	BL	BL	6730
	5ft	0.026	BL	BL	BL	BL	BL	BL	BL	BL	BL	11,000
BSL-5 (EB-2)	1 ft	na	na	na	Na	na	na	na	.101	BL	20.8	90.2
	3 ft	na	na	na	Na	na	na	na	na	Na	na	na
	5 ft	na	na	na	Na	na	na	na	.064	BL	18.3	2820
	7 ft	na	na	na	Na	na	na	na	BL	BL	BL	5350
BSL-6 (EB-1)	1 ft	na	na	na	Na	na	na	na	.099	BL	24.8	22
	3 ft	na	na	na	Na	na	na	na	na	Na	na	na
	5 ft	na	na	na	Na	na	na	na	.130	BL	21.5	20.2
	7 ft	na	na	na	Na	na	na	na	NA	NA	NA	NA
BSL-7	1 ft	na	na	na	Na	na	na	na	BL	BL	BL	2420
	5ft	na	na	na	Na	na	na	na	BL	BL	BL	6590
BSL-8	1 ft	na	na	na	Na	na	na	na	BL	64	BL	1550
	5ft	na	na	na	Na	na	na	na	NA	NA	NA	NA
BSL-8	10ft	na	na	na	Na	na	na	na	BL	BL	BL	BL

SAMPLE LOCATION	DEPTH	VOC's (mg/kg)							METALS (mg/kg)			
		Acetone	CBr3H	Naphthalene	PCE	Hexachlorobutadiene	123 tcb	124 tcb	Cr(VI)	Pb	Cr	Ni
RES. PRG		14000	62	1.7	0.48	6.2	na	62	30	150	210	1600
	15ft	na	na	na	Na	na	na	na	NA	NA	NA	NA
BSL-9	1 ft	na	na	na	Na	na	na	na	BL	81.5	BL	BL
	5ft	0.041	0.006	BL	BL	BL	BL	BL	NA	NA	NA	NA
	10ft	0.083	BL	BL	BL	BL	BL	BL	807	BL	915	BL
	15ft	NA	NA	NA	NA	NA	NA	NA	NA	NA	1220	NA
BSL-10	1 ft	BL	BL	0.023	BL	0.007	0.019	0.008	BL	BL	BL	BL
	5ft	na	na	na	Na	na	na	na	NA	NA	NA	NA
	10ft	na	na	na	Na	na	na	na	BL	BL	BL	BL
	15ft	na	na	na	Na	na	na	na	NA	NA	NA	NA
BGS-1	1 ft	na	na	na	Na	na	na	na	BL	BL	BL	BL
	5ft	na	na	na	Na	na	na	na	NA	NA	NA	NA
	10ft	na	na	na	Na	na	na	na	BL	BL	BL	BL
	15ft	na	na	na	Na	na	na	na	NA	NA	NA	NA

7. HUMAN HEALTH SCREENING EVALUATION

All complete exposure pathways and potential chemicals of concern need to be considered in a health risk assessment. For the purposes of the screening analysis, the highest concentrations detected at the site are used along with conservative exposure assumptions to estimate a worst case risk scenario. When more detailed assessments are done, more realistic assumptions may be applied and lower risk values are usually obtained. The purpose of the screening evaluation is to determine if further investigation is warranted and to determine which levels are not likely to represent a significant risk.

Even though the facility and its surroundings are in an industrial area and the land is zoned for industrial use, the exposure assumptions will be based on residential use to estimate levels that are protective for the unrestricted future use of the property.

The exposure pathways to be considered in the screening evaluation are those that are designated as potentially complete in the exposure model. The primary source of the chemicals of potential concern are the process units at the facility including the former degreaser, plating tanks and associated equipment such as the nickel filters. The most likely release mechanism from these operations was spillage to the secondary containment and migration to the subsurface soil.

The contaminated soil discovered during the subsurface investigation represents the most significant secondary source for exposure from the site. Although there are existing structures that prevent the closure of some exposure pathways, those pathways may still be considered for the screening evaluation, because unrestricted future development of the site could lead to closure of those exposure pathways. For example, with the exception of some very small landscaped areas, the site is entirely paved and the identified soil contamination was all found beneath an existing building.

For screening purposes, the maximally exposed individual would be a resident living at the unremediated site, developed as a residence in the future. Standard exposure assumptions include an exposure duration of 30 years for non-carcinogens, and a combined exposure duration of 6 years as a child and 24 years as an adult for carcinogens. Other standard exposure assumptions are tabulated in Exhibit 4-1 (Standard Default Factors) from the Region IX PRG Background Technical Document (Attachment 3).

USEPA Region IX has published Preliminary Remediation Goals (PRG's) for most of the chemicals reported at detectable levels in site samples. The 2004 PRG values are summarized in Table 2, below.

TABLE 2: RESIDENTIAL PRG VALUES

Constituent	Carcinogen	Residential PRG (mg/kg)
Acetone	No	14000
Bromoform CBr3H	Yes	62
Naphthalene	Yes	1.7

Constituent	Carcinogen	Residential PRG (mg/kg)
Tetrachloroethylene, PCE	Yes	0.48
Hexachlorobutadiene	Yes	6.2
1,2,3-trichlorobenzene	No	None Published
1,2,4-trichlorobenzene	Yes	62
Hexavalent Chromium, Cr(VI)	Yes	30
Lead, Pb	No	150
Total Chromium, Cr	Yes	210
Nickel, Ni	No	1600

Chromium (total and hexavalent) and Nickel were detected in soil samples at levels exceeding the USEPA Region IX Residential PRG's. The maximum detected levels of all other constituents do not exceed the PRG. For carcinogens, this means that the detected concentration does not represent a greater than one in a million incremental cancer risk ($< 10^{-6}$). For non-carcinogens, this means that the chronic hazard index is less than one.

8. ECOLOGICAL SCREENING EVALUATION

The site is within the United States Geological Survey Whittier Quandrangle. The California Department of Fish and Game has records of sightings of Species of Concern in the Whittier Quadrangle. Four listed plant species and two animal species have been cited in the Whittier Quadrangle. However, the site and the surrounding industrial area do not provide habitat for these species.

Based on a review of the available information, the site does not represent a threat to any identified species of concern. The species listed in the Fish and Game Database are listed in Table 3 below for reference.

TABLE 3: CALIFORNIA DEPARTMENT OF FISH & GAME DATA (WHITTIER)

ELMCODE	SCINAME	COMNAME	FEDSTAT	CALSTAT
ABNRB02022	Coccyzus americanus occidentalis	western yellow-billed cuckoo	Candidate	Endangered
PDAST5L0A1	Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None
PDPLM0C0Q0	Navarretia prostrata	prostrate navarretia	None	None
PMPOA4G010	Orcuttia californica	California Orcutt grass	Endangered	Endangered
PDHYD0C510	Phacelia stellaris	Brand's phacelia	None	None
AAABF01030	Spea (=Scaphiopus) hammondii	western spadefoot	None	None

9. COMMUNITY PROFILE

The site is located in an industrial area, but the nearest residential areas are North of Washington Blvd., approximately 300 feet from the facility. The area is considered to be within the contaminant plume from the Omega Chemical Superfund Site. The direction of the groundwater gradient is towards the South-Southwest, and that area is industrial.

Constituent	Carcinogen	Residential PRG (mg/kg)
Tetrachloroethylene, PCE	Yes	0.48
Hexachlorobutadiene	Yes	6.2
1,2,3-trichlorobenzene	No	None Published
1,2,4-trichlorobenzene	Yes	62
Hexavalent Chromium, Cr(VI)	Yes	30
Lead, Pb	No	150
Total Chromium, Cr	Yes	210
Nickel, Ni	No	1600

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PMPOA4G010	Orcuttia californica	California Orcutt grass	Endangered	Endangered
PDHYD0C510	Phacelia stellaris	Brand's phacelia	None	None
AAABF01030	Spea (=Scaphiopus) hammondii	western spadefoot	None	None

9. COMMUNITY PROFILE

The site is located in an industrial area, but the nearest residential areas are North of Washington Blvd., approximately 300 feet from the facility. The area is considered to be within the contaminant plume from the Omega Chemical Superfund Site. The direction of the groundwater gradient is towards the South-Southwest, and that area is industrial.

There is a hospital approximately one-half mile East of the facility, and the nearest schools are about the same distance away. Wiggins School is to the Northeast, Washington School is to the Northwest, and Aeolian School is to the West.

2000 Census data indicate that 85% of the 21,510 persons living within a one-mile radius of the facility are considered members of a " minority."

10. CONCLUSIONS & RECOMMENDATIONS

The following conclusions may be derived from the initial investigation:

- Soil contamination has been discovered at the site.
- Nickel and chromium are both potential constituents of concern.
- The lateral and vertical extent of the soil contamination has not been determined.
- Volatile organic compounds have not been detected at significant levels.

The actions below are recommended to complete characterization of the contamination of the site:

- Collect a soil vapor sample in the vicinity of BSL-3 to confirm that no significant VOC contamination exists at the site.
- Advance a hydropunch to the depth of first groundwater to determine the vertical extent of the hexavalent chromium contamination in the vicinity of BSL-9.
- Conduct a limited excavation or additional boring in the vicinity of BSL-4 to determine the reason for refusal at the five-foot depth and to investigate the vertical extent of the nickel contaminated soil.
- Complete a more detailed health risk assessment to determine appropriate clean-up levels for the nickel and chromium contamination at the site.
- Prepare a workplan to remediate the nickel and chromium contamination to acceptable levels.

11. REFERENCES

California Department of Water Resources, June 1961, "Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County," Appendix A, Ground Water Geology, Bulletin 104.

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Clayton Environmental Consultants, Inc., April 1989, "Preliminary Environmental Assessment of the Foss Plating Company Located at 8140 Secura Way, Santa Fe Springs, California,"

USEPA, December 2001, "SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,"

USEPA, Region 9, November 22, 2000,
(http://www.epa.gov/region09/waste/sfund/prg/index/htm)

USEPA, July 1996, "Soil Screening Guidance, User's Guide."

USEPA, July 1996, "Soil Screening Guidance, Technical Background Document."

12. SUPPORTING DOCUMENTATION

The following Figures and Attachments and the preceding references are the basis for the findings in this preliminary investigation report.

J 2006 Phase II Assessment

EXECUTIVE SUMMARY

A subsurface investigation of the site was conducted to determine if operations had contaminated the subsurface soil. Fieldwork was conducted on 13 and 14 March 2006 in accordance with an approved workplan.

Soil samples were analyzed for volatile organic compounds, heavy metals and hexavalent chromium. Only nickel, lead and chromium were found in concentrations exceeding the naturally occurring background levels at the site. Of these, nickel and chromium (including hexavalent chromium) were found at levels that exceed the human health screening criteria.

Ground water samples were analyzed for volatile organic compounds, heavy metals and hexavalent chromium. Both hexavalent chromium and perchloroethylene were found in concentrations exceeding the maximum contaminant level (MCL).

Soil vapor samples were analyzed from depths of 5 feet and 15 feet in the vicinity of the former degreaser vault. The concentrations did not vary significantly on either side of the vault, but ground water concentrations increased in the upgradient direction from the vault. The site is in an area influenced by two known perchloroethylene contaminant plumes (Mission Linen site under the oversight of the Los Angeles Regional Water Quality Control Board, and Omega Chemical under the oversight of the United States Environmental Protection Agency, Region IX).

The contamination from the site does not significantly increase the human health risk relative to the known existing contamination upgradient from the site. Actions to prevent the migration of the contaminants from the secondary sources on the site and monitor the site perimeter are recommended.

CERTIFICATION

The following certification is provided for this Phase II Assessment Report for the Foss Plating Company site located at 8140 Secura Way, Santa Fe Springs, California. This report has been prepared for Foss Plating Company, Inc. and the Department of Toxic Substances Control of the California Environmental Protection Agency.

I certify, under penalty of law, that this document and all attachments presented in this report are accurate and complete, and conform to the applicable requirements set forth in Title 22 of the California Code of Regulations. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. The information contained in this plan is intended to accurately present the findings of the subsurface investigation of the subject facility in compliance with California administrative law, and is solely intended for the consideration of the Department of Toxic Substances Control, California Environmental Protection Agency. This certification pertains to the assessment of the environmental conditions of the facilities or property, below the concrete surface. It is not intended, in part or in full, to be utilized by any

1.0 INTRODUCTION

BACKGROUND

The Foss Plating Company (Foss) is located at 8140 Secura Way in the city of Santa Fe Springs, California (Figure 1). Foss has been performing nickel and chrome plating since 1947. The site consists of two buildings, the larger one where all of the plating lines were located, and a second building used for finishing and polishing. The buildings are actually connected by a communal door. In front of the facilities are a series of large subsurface vaults that were used to treat waste water.

On 22 August 2002, a phase I environmental assessment inspection of the Foss Plating Company, Inc. (FPC) site was conducted by representatives of the California Environmental Protection Agency's Department of Toxic Substances Control (DTSC) and the Santa Fe Springs Fire Department's Health Hazardous Materials Division. The inspection was conducted to verify information submitted to DTSC on a Further Investigation Questionnaire Checklist dated July 22, 2002, and a previously submitted Phase I Environmental Assessment Checklist.

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As a result of the inspection and the review of the checklists, DTSC requested a further investigation of the areas of potential concern. The areas identified include the vicinity of the degreaser, the wet floor areas in the vicinities of plating lines 1 and 2, the nickel carbon filter and the metal stripping area. Fieldwork was conducted on September 19 and 26, 2004 in accordance with the approved workplan.

Soil samples were analyzed for pH, volatile organic compounds, cyanide, heavy metals and hexavalent chromium. Cyanide was not detected in any of the soil samples obtained at the site. Six volatile organic chemicals were reported at detectable levels in the samples, but none of the reported values exceeded human health screening criteria. Only nickel, lead and chromium were found in concentrations exceeding the naturally occurring background levels at the site. Of these, nickel and chromium (including hexavalent chromium) were found at levels that exceed the human health screening criteria. Additional site characterization was required by the DTSC to adequately identify the extent and significance of the subsurface contamination. This report summarizes the results of that characterization.

2.0 SITE DESCRIPTION

SITE LOCATION

The site is located at 8140 Secura Way in Santa Fe Springs, Los Angeles County, California. The site is situated on the east side of Secura Way, north of the intersection of Secura Way and Rivera Road, approximately 3.9 miles Northeast of Santa Fe Springs City Hall. Santa Fe Springs is located approximately 15 miles southeast of downtown Los Angeles, California. Access to the site is from Secura Way to the west of the site. The Foss Plating Company, Inc., (FPCI), facility covers approximately 20,590 square feet, and is improved with two buildings: the Plating building (9,193 square feet); and the Polishing building (3,452 square feet). A Site Location Map is presented as Figure 1. The Site Plan is presented as Figure 2

SITE HISTORY

Foss Plating was in operation at their present location from 1968 to 2005. An inspection of records of the Santa Fe Springs Building Department failed to give any indication of prior occupants. A title search confirmed that the land was agricultural prior to being purchased by Foss Plating.

Historical aerial photographs were reviewed to assess past land use of the property and adjacent areas. The Fairchild Aerial Photography Collection, located at Whittier College, provided aerial photographs from 1928, 1937, 1945, 1946, 1947, 1949, 1953, 1955, 1957 and 1959 for our review. None of the photographs reviewed showed evidence of waste disposal or indications of other environmental concerns on the site or adjacent property. In addition, no structures were shown onsite in any of the photographs.

The photographs from 1928 to 1937 show the site to be vacant land containing furrows, indicating cultivation. The surrounding areas appear to have been very similar. No structures are shown in the immediate vicinity of the property.

The photographs from 1945 to 1955 differ from earlier photos only in that areas surrounding the site appear sparsely populated. Structures that appear to be single-family homes are located in the western and northwestern portions of the photographs.

The site is still shown to be vacant, cultivated land in the 1957 and 1959 photographs. Areas surrounding the site appear more heavily populated, predominantly to the west, northwest, and southwest.

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3.0 FACILITY BACKGROUND

Land use within ¼ mile has been a mixture of small light industrial businesses, including several machine shops, and Mission Linen, an industrial laundry. Mission Linen did some subsurface testing along the storm water swale on Secura Way that runs by the Foss Plating location in the Spring of 2002. Results of the sampling indicate that the perchloroethylene concentration in the ground water beneath Secura Way, west of the site was 46.7 micrograms per liter (µg/l).

Foss Plating Company operated under regulatory oversight by the Santa Fe Springs Fire Department (CUPA), South Coast Air Quality Management District, California State Water Resources Control Board, the Sanitation Districts of Los Angeles County and DTSC.

Recent assessments and investigations include testing for the Omega Superfund Site conducted just across the street and testing for Mission Linen on Secura Way near the FPCI office. FPCI removed an abandoned below ground clarifier under the oversight of the City of Santa Fe Springs, Health Hazardous Materials Division. No volatile organic compounds were detected in the soil samples taken beneath the removed clarifier. Arsenic was the only element that

exceeded its residential PRG level (.39 mg/kg). In 1999, FPCI did a limited shallow soil investigation in the wastewater treatment area. The results of the Mission Linen investigation indicated that the perchloroethylene plume in the groundwater has extended south of the property which is adjacent to the northern end of Secura Way.

The groundwater sample collected by Roy F. Weston, Inc. as part of the Omega Chemical Superfund Groundwater Characterization Study contained 5.5 micrograms per liter (µg/l) of perchlorethylene and 3 µg/l of trichlorethylene.

OPERATIONS

FPCI conducted metal plating of various metal components. There were two (2) plating lines and one (1) stripping line contained within the plating building. For almost thirty years nickel and chromium had been used as plating metals. Copper can be introduced to solutions either from copper wire used for hand racking, copper from the racks, or copper already on the parts to be plated. Large volumes of zinc parts were plated prior to 1974. The metal components were first cleaned with caustic, alkaline, and acid solutions, then plated with nickel, and chromium. The components to be plated were rinsed with water between each bath. Support operations included wastewater treatment, polishing, facility and equipment maintenance, and administration.

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Wastes generated from the plating operations included spent plating solutions, and various process-related wastes. These wastes were historically handled either as regulated hazardous wastes under the codes F006, or F009 or as wastes able to be processed by the on-site wastewater treatment facility (WWTF). Since 1968, FPCI has been shipping various wastes, whenever possible, for recycling rather than land disposal.

The facility has discontinued plating activities at the site, and is removing associated plating equipment under the oversight of the CUPA. Upon completion of the above ground closure activities, a work plan will be submitted to DTSC to close the waste treatment units.

CURRENT OPERATIONAL STATUS

FPCI currently owns the property. The parts plating processes are no longer present. The three-stage clarifier was removed as described in the Closure Report dated April, 2003.

4.0 APPARENT PROBLEMS

Nickel and hexavalent chromium contaminated soil were found in the initial investigation. Nickel and chromium were found in soil and groundwater samples obtained in the follow-up investigation done on 13 and 14 March 2006. Perchlorethylene was found in all three groundwater samples and all soil vapor samples. The laboratory results and sample locations are discussed in detail in the Sampling Activities and Results section of this report.

NICKEL

Nickel contamination was discovered in the subsurface soil. The nickel concentrations in the groundwater were less than the MCL in all three samples. The elevated levels of nickel in the soil would be hazardous if there was a completed exposure pathway. As long as the contaminated soil is capped, it does not present a significant threat to human health or the environment, because it is not likely to migrate without the introduction of acidic groundwater.

HEXAVALENT CHROMIUM

In the previous investigation, the hexavalent chromium contamination was highest in the samples from the greatest depth. Hexavalent chromium was found in all three groundwater samples collected on 13 and 14 March 2006. Only GW-3 had levels of hexavalent chromium exceeding the MCL of 50 micrograms per liter (µg/l). Although groundwater beneath the site is contaminated with hexavalent chromium, additional sampling is required to determine the extent of the plume to the west and southwest (groundwater flow is expected to be toward the southwest underneath the site based on information obtained from the investigations of the Omega Chemical superfund site and the former Mission Linen site which are both upgradient from Foss).

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The hexavalent chromium has a significant migration potential, because it is soluble over a wide pH range. Chromate is the predominant species at low pH, and dichromate is the predominant species at high pH. The trivalent form of chromium is least soluble at a pH of 8.5. Conventional treatment of hexavalent chromium is to reduce it to the trivalent form. Migration can be controlled by reduction of the chromium or capping to prevent water intrusion. Normal groundwater flow would be expected to dissipate the plume overtime. The thick clay layer will tend to retain the hexavalent chromium in the unsaturated (Vadose) zone without the leaching effect due to liquid intrusion from above.

PERCHLOROETHYLENE

Perchlorethylene was detected in groundwater at almost one-hundred times the MCL, but none of the soil vapor samples were high enough to account for the levels detected upgradient from the former degreaser vault. The groundwater concentrations of PCE increased with distance from the former degreaser vault.

The former Mission Linen site, located at 11920 Washington Blvd. (approximately 300 feet to the north of Foss on the west side of Secura Way), had higher groundwater levels of perchlorethylene at the southwest corner of their property than any concentrations found at Foss.

The Los Angeles Regional Water Quality Control Board required the Mission Linen property owner to install one air sparging well and seven vapor extraction wells at that site. In 2002, a map was prepared showing PCE groundwater concentrations less than 100 µg/l from the Mission Linen plume in Secura Way adjacent to the Foss property. A ground water sample taken beneath Secura Way west of the site had a perchloroethylene concentration of 46.7 µg/l.

If the perchlorethylene in the groundwater is from an onsite source and is not entirely attributable to the Omega Chemical superfund site or the former Mission Linen site, it does not appear to be coming from the former degreaser vault. The isopleth diagrams for PCE and Cr(VI) in the groundwater suggest possible subsurface soil contamination source(s) in the vicinity of BSL-12.

5.0 ENVIRONMENTAL SETTING

The subject site is shown on the, Whittier Quadrangle 7.5-minute series topographic map published by the United States Geological Survey (Figure 1). This map was published in 1965 and was revised in 1981. According to the map, the site is shown at an elevation of 155 feet above mean sea-level. The site is shown on an area that slopes gently to the southwest. The site is shown approximately 1.7 miles east of the San Gabriel River and approximately 1.9 miles southwest of the Puente Hills. The site is also located approximately 15 miles south of the San Gabriel Mountains and approximately 15 miles north of the Pacific Ocean.

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The site is shown on the Long Beach Sheet of the Geologic Map of California. The site is shown atop Quaternary Alluvium Deposits. It is located on the Downey Plain in the northwestern portion of the Peninsular Ranges geomorphic province of Southern California. It is situated on the central block of the Los Angeles Basin. The central block is a structural syncline that is filled primarily with fluvial deposits of silt, sand, and gravel.

HYDROGEOLOGIC

The site is located on the boarder of the Montebello and Santa Fe Springs Plains of the Montebello Forebay Areas in the Central Basin. The Area extends southward from the Whittier Narrows and is considered one of the most important re-charge areas in the Central Basin. The Montebello Forebay is overlain by parts of the Montebello, Downey, and Santa Fe Springs Plains. The eastern arm of the Gaspur aquifer extends northeasterly through the Montebello Forebay and into the Whittier Narrows. The Gaspur is exposed at the ground surface from the Whittier Narrows to Imperial Highway and at the site is covered by only 25 feet of relatively impermeable soils.

According to Bulletin 104 (State of California, Department of Water Resources), the top of the Gaspur Aquifer is located approximately 25 feet beneath the subject site. The Gaspur is approximately 70 feet thick beneath the site but appears interrupted by layers of Recent Quaternary Deposits. There appears to be approximately 100 feet of non-water bearing formation beneath the Gaspur before the top of the Lynwood and/or the Jefferson Aquifers are encountered. The water-bearing zone appears to be approximately 100 feet thick and overlies approximately 50 feet of non-water-bearing formation. Beneath that are the Silverado Aquifer

(approximately 150 thick), a non-water-bearing zone (approximately 40 feet thick) and then the Sunnyside Aquifer (approximately 110 feet thick).

W&A has drilled 3 boreholes to groundwater at the site. Groundwater was encountered at depths from 25 to 33 feet below surface grades. The depth at which groundwater was encountered was in good agreement with Bulletin 104.

SURFACE WATER AND DRAINAGE

The major surface water shown on the topographic map is the San Gabriel River. The San Gabriel River runs from north to south to the Pacific Ocean and is the major drainage of the eastern most portion of Los Angeles County. On the west side of the San Gabriel River, west of the site is shown a percolation basin. Less than ½ mile southwest of the site is the Sorenson Avenue Drain. The Drain heads southeast and then south where it connects with the La Canada Verde Creek. The Creek then travels south to the Pacific Ocean.

Regional and local surface drainage patterns trend towards the southwest. A surface run-off collection channel is located along the west side of the building and is used for spill control, and collection of storm water run-off from the waste-water treatment system. Storm water from the roofs and from the parking lots flow to a surface storm channel that runs down the center of Secura Way. Storm water flows south, down the channel to Rivera Road and continues west to a storm drain located at the corner of Rivera Road and Sorenson.

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HAZARD AREAS

According to the Alquist-Priolo Special Studies Zones maps, no know faults transect the site. Approximately 2-1/2 miles north of the site is the Whittier Fault Zone and approximately 4 miles south of the site is the Norwalk Fault. Both of these faults/zones are considered active.

The site is located in a Zone C flood hazard area as described by the Federal Emergency Management Agency. According to FEMA this is an area of minimal flooding.

6.0 SAMPLING ACTIVITIES AND RESULTS

W&A performed the fieldwork for the assessment on 13 and 14 March 2006. Drilling was performed by Astech Environmental Services. Sampling was performed by W&A. On-site laboratory analysis was performed by Jones Environmental. Off-site laboratory analyses were performed by Sierra Analytical. Procedures for the field investigation are provided in **Appendix 2.**

Soil Gas Survey

W&A drilled three boreholes (VP-1, VP-2, and VP-3) to collect soil gas for laboratory analysis. Each borehole was drilled to a depth of 15 feet in depth and completed with two vapor probes; one set at 5 feet in depth, and one set at 15 feet in depth. VP-2 was drilled and continuously cored; VP-1 and VP-3 were not. W&A collected soil samples from 15 feet in depth from each borehole.

Groundwater Investigation

W&A drilled three boreholes (GW-1, GW-2, and GW-3) from which W&A collected groundwater samples. GW-1 was continuously cored to a depth of 32 feet below surface grade with samples collected at 5-foot intervals. GW-2 and GW-3 were drilled to depths 36 and 34 feet respectively; also with soil samples collected at 5-foot intervals.

Nickel Investigation

W&A drilled two boreholes (BSL-11 and BSL-12) for soil samples only. Both boreholes were drilled to depths of 25 feet below surface grade with soil samples collected at 5-foot intervals.

FIELD DATA

The soil encountered during the drilling consisted of fine-grained materials. Based on the two continuous cores and the samples collected in the rest of the boreholes, the soil from the surface to 10-12 feet below surface grade consisted of primarily silty sand (SM) with an increase in silt with depth in the borehole. Beneath the layer of silty sand was a layer of fat clay (CL) that generally extended to the groundwater. A 2.5-foot layer of silt was encountered above the clay in VP-2 and a 3-foot layer of silt was encountered in GW-1. However, the silt layers did have some clay. Groundwater was encountered in a layer of fine to medium grained sand; some of which was silty, some of which had very little silt. The soils encountered were recorded on the borehole logs (**Appendix 3, Borehole Logs**).

Groundwater was encountered at 29 feet below surface grade in GW-1. Groundwater was encountered at 33.5 and 34 feet in GW-2 and GW-3 respectively. However, the true depth at which groundwater was encountered in the two boreholes is not certain. There was very little groundwater entering the boreholes and the depth at which groundwater appeared to be encountered was much deeper than in GW-1. Because of the clay above there may have been smearing along the walls of the borehole that prevented the water-bearing zone to be exposed at its true first depth.

W&A observed no staining in any of the soil samples collected. W&A did smell VOC-type odors in the samples collected from BSL-12 at a depth of 5 to 20 feet below surface grade.

LABORATORY DATA

Soil Gas Survey

W&A collected soil gas samples from VP-1, VP-2, and VP-3 and had them analyzed for VOCs using an on-site mobile laboratory. VP-2 was drilled first and purge tests were performed on both of the depths. Purge tests included purging 1, 3, and 7 volumes from each depth. The purge test showed that 3 purged volumes were the best at 5 feet in depth and 7 purged volumes were the best at 15 feet in depth. Each of the samples collected was then analyzed for VOCs by EPA Method 8260B. The samples analyzed and the number of purged volumes used for each sample is summarized in **Table 1**. The laboratory reports are provided in **Appendix 4**. One duplicate sample was analyzed by the laboratory.

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Table 1

Summary of Vapor Sample Analyses

Borehole	Depth	# of Purges	Laboratory Results (µg/L)					
			Chloro-ethane	Chloro-form	1,1 DCE	PCE	1,1,1 TCA	TCE
VP-1	5	3	nd	nd	0.32	4.4	0.062	nd
	5 (d)	3	nd	nd	0.24	4.3	0.070	nd
	15	7	nd	nd	0.43	4.0	0.077	nd
VP-2	5	1	nd	nd	0.51	3.2	0.032	0.18
	5	3	nd	nd	0.52	3.1	nd	nd
	5	7	nd	nd	0.53	3.3	0.076	nd
	15	1	0.25	nd	3.4	5.0	0.13	0.17
	15	3	0.24	nd	3.6	7.0	0.13	0.18
	15	7	nd	0.26	4.5	8.6	0.14	0.19
VP-3	5	3	0.66	nd	0.39	4.6	0.14	nd
	15	7	nd	0.99	0.58	7.1	0.16	nd
CHHSLs			na	na	na	6.03E-1	2.79E+03	1.77E+0
Laboratory Reporting Limit			0.01	0.01	0.01	0.01	0.01	0.01

µg/L: Micrograms per liter, roughly equivalent to parts per billion.
nd: Not detected.
(d): Duplicate sample.
CHHSL: California Human Health Screening Levels for Soil Gas (Commercial/Industrial Use Sites).
na: Not applicable.
Bold: Values in bold exceed the CHHSL for that compound.

The laboratory reported detection of six different VOCs in the 11 vapor samples analyzed. Of those compounds detected only perchloroethylene (PCE) was reported in concentrations greater than its California Human Health Screening Level for industrial-use shallow soils (CHHSL). PCE was reported at a concentration greater than the CHHSL in every sample.

A duplicate sample was collected from VP-1 at a depth of 5 feet. The laboratory results for the duplicate were in excellent agreement with the other sample collected from that depth.

Groundwater Investigation

W&A collected groundwater samples from 3 locations. Each of the samples was analyzed for VOCs by EPA Method 8260, for California Title 22 Metals by EPA Method 6010B, and for hexavalent chromium by EPA Method 7199. The laboratory results are summarized in Tables 2 and 3. The laboratory reports are provided in Appendix 4.

Table 2
Summary of Groundwater Sample Analysis--VOCs

Borehole	Laboratory Results (µ/L)*			
	Chloroform	1,1 DCE	PCE	TCE
GW-1	28	4.6	230	6.5
GW-2	17	3.1	220	3.0
GW-3	11	5.7	490	3.8
MCLs	100	6	5	5
Reporting Limits	1.0	1.0	1.0	1.0

*: Laboratory screened for 60 compounds, all other compounds not shown were reported as "non detect" by laboratory
VOCs: Volatile organic compounds
µg/L: Micrograms per liter; roughly equivalent to parts per billion
MCLs: Maximum concentration limits; standards for drinking water set by the State of California

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Table 3
Summary of Groundwater Sample Analysis--Metals

Borehole	Laboratory Results (mg/L)		
	Cr	Cr^6	Ni
GW-1	2.7	0.017	1.8
GW-2	0.89	0.0040	1.2
GW-3	1.0	0.91	61
MCLs	0.05	0.05*	100
Rep Limits	0.98	120	0.79

mg/L: Milligrams per liter; roughly equivalent to parts per million
nd: Not detected at laboratory detection limits
MCLs: Maximum concentration limits; standards for drinking water set by the State of California
* The MCL for chromium does not specify hexavalent or total. OEHHA has withdrawn the hexavalent chromium MCL, but the San Francisco Bay Regional Water Quality Control Board has published an ESL for protection of human health of .021 mg/l for hexavalent chromium.

The laboratory reported concentrations of four VOCs in the groundwater samples collected; Chloroform, 1,1 Dichloroethene, Perchloroethene, and Trichloroethene. The laboratory reported concentrations of PCE from 230 to 490 µg/L in the samples, all of which are greater than the MCL for PCE. The laboratory reported a concentration of 6.5 µg/L of TCE in the sample collected from GW-1 which is slightly higher than its MCL. The laboratory reported no TCE in either of the other two groundwater samples collected.

The laboratory reported concentrations of all metals (17 plus hex chrome) in the groundwater samples collected except silver, beryllium, mercury, and thallium. None of the concentrations reported were in excess of their respective MCL except for chromium.

Soil Investigation

The soil samples submitted for analysis by the laboratory were analyzed for metals (Title 22) and hexavalent chromium. The laboratory reported concentrations of hexavalent chromium in excess of the CHHSLs (37 mg/Kg) in the sample collected from VP-3 at 15 feet in depth, GW-1 at 20 and 25 feet in depth, and GW-2 at 15 feet in depth. Hexavalent chromium was not reported in excess of the CHHSL in any of the other samples tested.

The laboratory reported concentrations of Nickel in excess of the CHHSL (16,000 mg/Kg) in the samples collected from GW-3 at 15 feet in depth, BSL-11 at 10 and 15 feet in depth, and BSL-12 at 10 and 15 feet in depth. The laboratory reports of the metals data are summarized in **Table 4**.

Table 4
Summary of Soil Sample Analysis-Metals

Borehole	Depth	Laboratory Results (mg/Kg)		
		Cr	Cr^6	Ni
VP-1	15	43	0.94	29
VP-2	15	41	0.75	29
VP-3	15	150	240	43
GW-1	20	130	46	40
	25	120	140	29
GW-2	15	1,300	1,800	120
	20	38	1.1	27
	20	36	2.8	28
GW-3	15	40	nd	15,000
	15	46	nd	14,000
	20	31	nd	32
	25	35	nd	30
BSL-11	10	32	nt	35,000
	15	43	nt	4,600
	20	30	nt	24
BSL-12	10	25	nt	17,000
	15	37	nt	30,000
	15 (d)	34	nt	23,000
	20	36	nt	46
CHHSLs		10000	37	16,000
Reporting Limits		0.98	120	0.79

mg/kg: Milligrams per kilogram; roughly equivalent to parts per million
nd: Not detected at laboratory detection limits
nt: Not tested
CHHSLs: California Human Health Screening Levels set by the State of California

Previous Soil Investigation

Soil samples were collected from eleven boring locations in September of 2004. The laboratory reports are presented in Appendix 1 and the results are summarized in Table 5.

Table 5
Summary of Previous Soil Sample Analysis-Metals

Borehole	Depth	Laboratory Results (mg/Kg)		
		Cr	Cr^6	Ni
BSL-1	1	21.8	.097	17.0
BSL-1	10	131	85.3	11.9
BSL-2	1	18.2	0.076	14.9
BSL-2	10	46.5	25.7	30.5
BSL-3	1	18.5	.081	20.2
BSL-4	1	35.0	nt	6730
BSL-5				
BSL-6				
BSL-7		21.8	nt	2420
BSL-8		19	.35	1550
BSL-8	10	22.8	nt	19.7
BSL-9		25.2	1.06	16.2
BSL-9	10	915	807	244
BSL-10		20.7	.110	15.5
BSL-10	10	17.2	.185	21.9
BGS-1	1	18.8	nt	14.7
BGS-1	10	15.5	nt	12.5
BSL				
BSL				
CHHSLs		10000	37	16,000
Reporting Limits		0.98	120	0.79

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mg/Kg: Milligrams per kilogram; roughly equivalent to parts per million
nd: Not detected at laboratory detection limits
nt: Not tested
CHHSLs: California Human Health Screening Levels set by the State of California

7.0 HUMAN HEALTH SCREENING EVALUATION

Nickel in soil, hexavalent chromium in groundwater, and perchlorethylene in groundwater and soil gas were all found at levels exceeding the respective California Human Health Screening Levels or Maximum Contaminant Levels. Usually, screening level risk assessments are conducted for residential exposure assumptions for preliminary endangerment assessments and clean closure purposes. The nearest residential areas are located approximately .17 miles north of the site on the north side of Washington Boulevard. All of the downgradient properties (south-southwest) of the property are industrial or commercial use for over one mile, but Santa Fe Springs Well # 1 is approximately one-half mile southwest of the site. Santa Fe Springs Well # 1 is the nearest known drinking water well.

The identified subsurface contamination (nickel, chromium and perchloroethylene) beneath the

site is under the concrete slab foundation of the existing building. In a site-specific risk assessment, the first step is to identify the potential exposure pathways and establish a conceptual site model. Some pathways are viable for some chemicals and not others. For example, volatile organic compounds may be inhaled as a vapor, but less volatile species such as nickel salts must form a dust to be inhaled.

The ingestion pathway is usually based on assumptions of soil being ingested by children. This pathway is extremely important in school sites and residential locations, but is very unlikely to be complete in industrial areas that are paved. The ingestion pathway for adults is more likely to be from dust exposure or contaminated food crops than direct ingestion of undisturbed soil.

If the contaminated soil remains capped beneath the building foundation and sheltered from water intrusion into the vadose zone, exposure to the contaminants is limited to the groundwater pathway and vapor intrusion into indoor air. The active sources of contamination have been eliminated from the site. Perchlorethylene has not been used on the property for several years, and nickel and chromium plating activities were stopped in 2005. The secondary source (the contaminated soil) remains under the building. The building acts to reduce the migration potential from the secondary source by diverting precipitation from percolating into the vadose zone. The surrounding buildings and large paved areas reduce the likelihood of significant contaminant migration from the vadose zone to the saturated zone. The thick clay layer beneath the site also provides significant surface area for contaminants to be absorbed.

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Resolution 88-63 of the California State Water Resources Control Board assumes that all groundwater is potentially drinking water unless the total dissolved solids (TDS) exceeds 3,000 mg/l, there is contamination unrelated to the specific pollution incident that cannot reasonably be treated for domestic use or the water source does not provide sufficient water to supply a single well capable of producing an average, sustained yield of 200 gallons per day. The site is downgradient from two contaminated sites that are established sources of perchlorethylene, and both sources have significantly higher concentrations of perchloroethylene in soil gas and ground water than have been detected at the site. Based on 2002 data from the former Mission Linen site investigation, perchloroethylene concentrations in ground water were 86.7 µg/l 120 feet north of the site and 46.7 µg/l west of the site beneath Secura Way. These values suggest that the MCL of 5 µg/l is not a reasonable clean-up standard for ground water at the site.

Concentrations of perchlorethylene in the vadose zone soil gas samples were higher at the deeper depths than the shallow depths. For screening purposes, current DTSC guidance recommends the use of the Johnson-Ettinger model for evaluating the effect on indoor air quality from subsurface volatile organic compound (VOC) contaminants. The highest perchlorethylene concentration measured in soil gas at the depth of five feet was 4.6 µg/l in VP-3. The indoor air concentration estimated using the screening level assumptions is 3.57 µg/m3 (or .527 ppb) of perchloroethylene. The incremental cancer risk calculated for the estimated indoor air concentration is 2.7×10^{-6}. The screening model uses residential exposure assumptions including 24 hour per day instead of 8 hour per day exposure durations. Correcting for the exposure duration would yield an occupational incremental risk of 9×10^{-7} (less than one in one-million).

The hexavalent chromium in the ground water was approximately eighteen times the MCL for total chromium in the ground water sample from GW-3. Approximately 40 feet to the south in the sample from GW-2, the concentration was 1.9% of the concentration in the GW-3 sample. The property line is approximately 60 feet to the south-southwest of GW-2. The estimated hexavalent chromium concentration in the ground water at the property line downgradient from GW-3 is less than 50 µg/l (the MCL). The nearest drinking water well is approximately one-half mile from the site. There is no existing use of the shallow aquifer, and due to the plumes from the former Mission Linen site and the Omega Chemical superfund site it is unlikely that the aquifer will be used for drinking water in the forseeable future.

As long as the contaminated soil remains capped by the building, the impacted ground water is far enough away from the nearest water well, and the indoor air concentration of perchlorethylene is low enough to not present a significant risk to human health in the water supply or to workers exposed to indoor air at the site.

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8.0 ECOLOGICAL SCREENING EVALUATION

The site is within the United States Geological Survey Whittier Quadrangle. The California Department of Fish and Game has records of sightings of Species of Concern in the Whittier Quadrangle. Four listed plant species and two animal species have been cited in the Whittier Quadrangle. However, the site and the surrounding industrial area do not provide habitat for these species.

Based on a review of the available information, the site does not represent a threat to any identified species of concern. The species listed in the Fish and Game Database are listed in Table 6 below for reference.

TABLE 6: CALIFORNIA DEPARTMENT OF FISH & GAME DATA (WHITTIER)

ELMCODE	SCINAME	COMNAME	FEDSTAT	CALSTAT
ABNRB02022	Coccyzus americanus occidentalis	western yellow-billed cuckoo	Candidate	Endangered
PDAST5L0A1	Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None
PDPLM0C0Q0	Navarretia prostrata	prostrate navarretia	None	None
PMPOA4G010	Orcuttia californica	California Orcutt grass	Endangered	Endangered
PDHYD0C510	Phacelia stellaris	Brand's phacelia	None	None
AAABF01030	Spea (=Scaphiopus) hammondii	western spadefoot	None	None

9.0 COMMUNITY PROFILE

The site is located in an industrial area, but the nearest residential areas are North of Washington Blvd., approximately 300 feet from the facility. The area is considered to be within the contaminant plume from the Omega Chemical Superfund Site. The direction of the groundwater gradient is towards the South-Southwest, and that area is industrial.

There is a hospital approximately one-half mile East of the facility, and the nearest schools are about the same distance away. Wiggins School is to the Northeast, Washington School is to the Northwest, and Aeolian School is to the West.

2000 Census data indicate that 85% of the 21,510 persons living within a one-mile radius of the facility are considered members of a " minority."

10.0CONCLUSIONS AND RECOMMENDATIONS

The following conclusions may be derived from the most recent and previous investigations:

- Soil, ground water, and soil gas contamination have been discovered at the site.
- Nickel, hexavalent chromium and perchloroethylene are identified constituents of concern.
- Groundwater beneath the site is impacted by perchloroethylene and hexavalent chromium.
- Based on the proximity of the perchloroethylene contaminant plumes from the former Mission Linen site and the Omega Chemical site, the groundwater gradient, concentrations of perchlorethylene and consistency of soil vapor concentrations in the vicinity of the vapor degreaser pit, the degreaser pit does not appear to be a source of subsurface perchloroethylene contamination.
- Based on the correlation between hexavalent chromium and perchloroethylene concentrations in the ground water samples, odors noticed in the completion of boring BSL-12, and the history of perchloroethylene and hexavalent chromium use at the site there may be a coincident source or sources of perchloroethylene and hexavalent chromium in the vicinity of BSL-12.
- Elevated levels of nickel contamination were found in the vicinity of BSL-12. The building floor prevents completion of exposure pathways from the subsurface soil. The building also discourages migration of the subsurface contamination by preventing rain water from transporting the contaminants through the vadose zone.

Due to the contamination from other upgradient sources and the depth of the soil contamination, it is not feasible to clean the site to background levels or levels that are acceptable for residential use. Ground water has been impacted underneath the site, but off-site ground water is not likely to be any worse than the background levels already established from investigation of the former Mission Linen and Omega Chemical sites. The following actions are recommended based on the available information:

- Estimate fate and transport of subsurface contaminants assuming the maintenance of the building as an effective cap to quantify the potential adverse impacts to ground water over time.
- Prepare a work plan to install ground water monitoring wells downgradient and cross gradient to the identified ground water contamination to verify the results of the fate and transport modeling.

- Complete a more detailed health risk assessment to verify appropriateness of capping as a corrective action for the subsurface contamination at the site.
- Negotiate conditions with DTSC and execute an appropriate deed restriction to protect human health and the environment.

11.0LIMITATIONS

This report is intended for the use of Foss Plating, Inc.. Our services have been performed under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please have them contact us so that a mutual understanding and agreement of the terms and conditions for our services can be established prior to their use of this information.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental, health and safety consultants practicing in this or similar localities at the time of service. No other warranty, express or implied, is made as to the professional advice included in this report.

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The findings and opinions in this report are relevant to the dates of our site work. They should not be relied upon to represent conditions at later dates.

The opinions included in this report are based on information obtained during the study and on our experience. If additional information becomes available that might affect our conclusions, we request the opportunity to review the information, reassess the potential environmental and health and safety concerns, and modify our opinion, if warranted.

Although this assessment has attempted to identify the potential for site contamination, potential sources of contamination may have escaped detection. They may have been overlooked because of the scope of this assessment, the inaccuracy of public records, or the presence of undetected and unreported environmental concerns.

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ASTECH
ENVIRONMENTAL SERVICES, INC.
Environmental Management and Consulting Services

DRAFT
ADDITIONAL SITE ASSESSMENT REPORT
FORMER FOSS PLATING FACILITY
EPA ID CAD008278236
8140 SECURA WAY
SANTA FE SPRINGS, CALIFORNIA 90250

Prepared For:

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS WASTE MANAGEMENT PROGRAM
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September 13, 2007

Reviewed and Approved by:

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EXECUTIVE SUMMARY

Pursuant to the requirements of the Department of Toxic Substance Control (DTSC), ASTECH Environmental Services Corporation (ASTECH) performed additional site characterization at the former Foss Plating facility, located at 8140 Secura Way in Santa Fe Springs, California (hereinafter referred to as "the Site"). The objectives of the investigation activities were to further evaluate the limits of affected materials in known areas of concern and to assess the portions of the facility where data gaps were previously identified (wastewater treatment vaults). The Additional Site Investigation activities were performed in accordance with the Sampling and Analysis Plan, submitted on March 27, 2007 and approved by the DTSC on May 1, 2007.

From June 21, 2007 to August 2, 2007, ASTECH advanced a total of twenty-three (23) exploratory borings (EB1 through EB23), installed multiple depth soil vapor sample probes at seven locations (SV1 through SV6, and SV101), and collected twenty-two concrete core samples (CC1 through CC21). The portions of the former Site facility targeted during the assessment included the former stripping line, waste nickel storage pit, degreaser vault, and former plating line #2.

The exploratory borings were advanced using a truck-mounted Geo-Probe 6600™ drill rig employing direct push sampling techniques. Sample locations with limited accessibility were cored using a portable Geo-Probe 420MT™ device. Groundwater was not encountered during the drilling activities to the maximum explored depth of 30-feet bgs.

A total of ten (10) metal compounds were detected in the soil samples collected during the investigation: arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, zinc, and hexavalent chromium (Chromium VI or Cr^{6+}). Of these, arsenic, total chromium, nickel and hexavalent chrome in select soil samples exceeded California-modified EPA Region IX Preliminary Remediation Goals (PRGs, 2004); select soil samples contained concentrations of total chromium, nickel and hexavalent chromium exceeding total threshold limit concentrations (TTLC); while a select samples contained concentrations of total chromium, total lead, nickel and hexavalent chromium exceeding soluble threshold limit concentrations (STLC).

Arsenic concentrations exceeding the DTSC-accepted background of 6 milligrams per kilogram (mg/kg) of arsenic in residential properties were observed in boring EB10 at 5 and 10 feet below ground surface (bgs), and in EB13 at 2 feet bgs. These concentrations attenuated to 6 mg/kg or below by the next sampling interval. Concentrations of arsenic did not exceed TTLC or 10 times STLC values.

Total chromium was detected in all of the soil samples and ranged in concentration between 4 mg/kg and 8,537 mg/kg. Concentrations of total chromium exceeding PRG values were found in borings EB7 at 15 feet bgs, EB8 from 2 to 20 feet bgs, EB9 from 2 to 20 feet, EB10 (MW-2) from 5 to 30 feet, EB11 from 2 to 20 feet, and in EB13 at 2 feet bgs. Concentrations exceeding TTLC were found in boring EB9 from 2 to 20 feet bgs,

and in boring EB10 (MW-2) at 10 feet bgs. Twenty four samples contained concentrations of total chromium exceeding 10 times the STLC.

Hexavalent chromium was detected at concentrations ranging from below detection limits (1-sample) to a maximum of 973.68 mg/kg. Twenty two of 27 samples analyzed contained concentrations of hexavalent chromium exceeding PRGs and 10 times the STLC. These samples were found in boring EB7 at 10 to 15 feet bgs, EB8 5 to 20 feet, in EB9 from 2 to 20 feet, in EB10 (MW-2) from 5 to 30 feet, and in EB11 from 2 to 20 feet bgs. Samples from EB7 at 15 feet, EB8 at 15 feet, EB9 at 20 feet, EB10 (MW-2) at 15 feet, and EB11 at 10 and 15 feet bgs contained hexavalent chromium concentrations exceeding TTLC values.

Approximately half the samples analyzed contained detectable concentrations of total lead. Total lead concentrations ranged from 2 to 102 mg/kg. Only one sample contained lead concentrations in excess of 10 times the STLC, in boring EB13 at 5 feet bgs. Lead concentrations detected in other samples did not exceed PRG or TTLC values.

Nickel was detected in all of the samples submitted for analysis and ranged in concentration between 4 mg/kg (parts per million) and 19,304 mg/kg. Concentrations of nickel exceeding PRG and TTLC values were found in boring EB2 from 2 to 20 feet bgs, EB3 from 2 to 10 feet, EB4 at 5 feet, EB5 at 10 and 15 feet bgs, EB6 (MW-1) from 5 to 15 feet, and EB13 at 2 feet bgs. Samples containing nickel concentrations exceeding 10 times the STLC include the above and EB5 at 2 and 5 feet, EB8 at 5 and 10 feet, EB9 at 5 feet, EB10 (MW-2) at 5 feet, EB11 at 10 feet, and EB15 at 5 feet.

A total of nine (9) metal compounds were detected in the concrete core samples: arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc. Of these metals, only arsenic, total chromium, copper, and nickel were found in concentrations exceeding either TTLC or 10 times the STLC. Nickel was detected in all of the concrete core samples and ranged in concentration between 16 mg/kg and 5,893 mg/kg. Total chromium was detected in all of the concrete core samples and ranged in concentration between 12 mg/kg and 5,561 mg/kg. Arsenic was detected in fifteen out of twenty-one concrete core samples and ranged in concentration between 4 mg/kg and 150 mg/kg. Additional Title-22 metal compounds were reported in concrete at maximum concentrations of 157 mg/kg barium, 26 mg/kg cobalt, 674 mg/kg copper, 309mg/kg lead, 19 mg/kg vanadium, and 223 mg/kg zinc. Waste Extraction Tests were performed on select concrete core samples and analyzed for arsenic, chromium, and nickel using EPA 6010B. Results indicate that core CC8 contained soluble arsenic concentrations in excess of STLCs, cores CC6, CC7 and CC11 contained soluble total chromium concentrations in excess of STLCs, and cores CC2, CC3, CC8, CC10, CC11, CC14, CC15, and CC16 contained soluble nickel concentrations in excess of STLC. Souble arsenic was detected at 21.3 milligrams per liter (mg/l), soluble chromium ranged from 88.5 to 589.3 mg/l, and soluble nickel ranged from 21.3 to 948 mg/l.

A total of seven (7) volatile organic compounds(VOCs) were detected in soil samples collected during the investigation. VOCs detected include: benzene, chloroform, 1,1-

Dichloroethene (1,1 DCE), tetrachloroethylene (PCE), toluene, ethylbenzene, and total xylenes. The most frequently detected compound was PCE which was present above method detection limits in all nine samples. All other VOCs were reported as single detections. PCE was detected in soil at concentrations ranging between 3 micrograms per kilogram (µg/kg, or parts per billion) and 35 µg/kg. Single detections of BTEX were reported in sample SV1-15' at 11 µg/kg benzene, 10 µg/kg toluene, 2 µg/kg ethylbenzene, and 7 µg/kg total xylenes. Single detections of chloroform and 1,1-dichloroethene were reported in soil at 8 µg/kg and 3 µg/kg, respectively.

Two (2) VOCs were detected during the soil gas survey:: chloroform and tetrachloroethylene (PCE). PCE was reported in all 13 soil gas samples and ranged in concentration from 0.5 micrograms per liter (µg/L, parts per billion) to 22.6 µg/L. Chloroform was detected in 12 out of 13 samples and ranged in concentration between 1.2 µg/L and 5.3 µg/L.

Soil sample analytical results did not indicate that significant releases of inorganics (metals) have occurred beneath the wastewater treatment vaults with the exception of sample point EB13. Metal concentrations detected in the 2-foot soil sample collected from Boring EB13 showed that three test constituents exceeded USEPA Region IX PRGs and included arsenic, total chromium, and nickel. Maximum concentrations of these compounds were reported in the 2-foot soil sample collected from EB13 at 7 mg/kg arsenic, 1,650 mg/kg total chromium, and 2,369 mg/kg nickel. Based on the reported concentration of total chrome, Sample EB13-2 was further analyzed for hexavalent chromium and determined to be 17.062 mg/kg. Further analysis of deeper soil samples collected from Boring EB13 showed that all of the constituents of concern attenuated to acceptable levels (below PRGs) at a depth of 5-feet bgs. Concentrations of nickel decreased from 2,369 mg/kg to 75 mg/kg between 2-5 feet bgs in Boring EB13, total chromium decreased from 1,650 mg/kg to 21 mg/kg between 2-5 feet bgs, and arsenic levels reduced from 7 mg/kg to 3 mg/kg.

PCE was detected in all of the 10-foot soil samples collected beneath the former waste water treatment vaults and ranged in concentration between 3 µg/kg and 20 µg/kg. The highest reported concentration of PCE (35 µg/kg) was reported in the 15-foot soil sample collected from beneath the former vapor degreaser (Boring EB12). pH was measured in soil samples collected from beneath the former vaults between 6.46 and 8.89 and is within acceptable limits based on State and Federal waste characterization criteria.

A total of four metal constituents were detected in soil samples above their respective USEPA Region IX PRGs and included arsenic, nickel, total chromium, and hexavalent chromium (Chromium $^{6+}$). Concentrations of these compounds detected in excess of their respective PRGs were reported at a frequency of seven samples for arsenic, twenty samples for nickel, twenty-one samples for total chromium, and twenty-one samples for Chromium $^{6+}$.

Arsenic often naturally occurs in soils at concentrations exceeding the risk based PRG value of 0.25 mg/kg (1×10^{-6} cancer risk). Therefore, an adjustment to the PRG is

generally warranted because this value typically lies below background levels. Region IX has occasionally used the non-cancer endpoint of 22 mg/kg (EPA's acceptable target risk goal range of 10^{-6} to 10^{-4}) to evaluate sites upon considering background levels. The reported arsenic concentrations detected in the soil samples collected during the investigation fall within this range with the exception of the 10-foot sample collected from Boring EB10.

Concentrations of chromium^{6+} were detected above the PRG (64 mg/kg) predominately in borings advanced in the southeastern portion of the Site building. The vertical extent of chromium^{6+} impact does not appear to attenuate with depth and most likely has impacted groundwater. Cr^{6+} was detected in the 30-foot sample collected from Boring EB10 at a concentration of 482.45 mg/kg.

Concentrations of total chromium exceeded the USEPA Region 9 PRG (448 mg/kg) in a total of twenty-one soil samples. The area of concern is located in the southeastern portion of Building #1 and was defined at 2-feet bgs by borings EB9 and EB10. The lateral limits of impact at 5-feet bgs were characterized by Borings EB8, EB9, and EB10. The extent of chromium impacts at 10-feet bgs was defined by borings EB8, EB9, EB10, EB11. The extent of total chromium detected in the facility yard areas (former wastewater treatment vault) was identified by Boring EB13.

Concentrations of nickel exceeded the USEPA Region 9 PRG (150 mg/kg) in a total of twenty-one soil samples. The area of impact from nickel is located in the northeastern portion of the interior of Building #1 and was defined in shallow soil (2-feet bgs) by borings EB2, EB3, EB4, and BSL 4. The lateral extent of nickel at 5-feet bgs was defined by borings EB2, EB3, EB4, EB5, EB6, BSL-6, BSL-7, EB8, EB9, EB10, and in the former wastewater treatment vaults EB13 and EB15. The lateral extent of nickel at 10-feet bgs was defined by borings EB2, EB3, EB5, BSL5, EB9, BSL9, and BSL12. The vertical extent of nickel impact in the AOCs was found to attenuate to acceptable levels between 15-20 feet bgs in the interior portion of the building and at 5-feet beneath the former wastewater treatment vaults.

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TABLE KEY

ABBREVIATIONS / SYMBOLS

AESI	=	ASTECH ENVIRONMENTAL SERVICES, INC.
AOC	=	AREA OF CONCERN
BGS	=	BELOW GROUND SURFACE
CACA	=	CORRECTIVE ACTION CONSENT AGREEMENT
COC	=	CHAIN OF CUSTODY
DQO	=	DATA QUALITY OBJECTIVE
DTSC	=	DEPARTMENT OF TOXIC SUBSTANCE CONTROL
ESA	=	ENVIRONMENTAL SITE ASSESSMENT
EY	=	EAST YARD
FOSS	=	FORMER FOSS PLATING FACILITY
LADPW	=	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
MG/KG	=	PARTS PER MILLION
NOV	=	NOTICE OF VIOLATION
PEAWP	=	PRELIMINARY ENDANGERMENT ASSESSMENT WORKPLAN
PCE	=	TETRACHLOROETHENE
PCOC	=	POTENTIAL CHEMICALS OF CONCERN
PRG	=	PRELIMINARY REMEDIATION GOALS
QA/QC	=	QUALITY ASSURANCE/QUALITY CONTROL
SB	=	SOIL BORING
SSAP	=	SUPPLEMENTAL SAMPLING AND ANALYSIS PLAN
SV	=	SOIL VAPOR
SAP	=	SITE ASSESSMENT WORKPLAN
SWRCB	=	STATE WATER RESOURCES CONTROL BOARD
TTLC	=	Total Threshold Limit Concentrations
TCE	=	TRICHLOROETETHENE
USEPA	=	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
UTI	=	DIG ALERT
VOCs	=	VOLATILE ORGANIC COMPOUNDS
µG/KG	=	PARTS PER BILLION

1.0 INTRODUCTION

Pursuant to the requirements of the Department of Toxic Substance Control Hazardous (DTSC) - Waste Management Program, Tiered Permitting Corrective Action Branch, ASTECH Environmental Services, Inc. (*ASTEC*H) performed additional assessment at the former Foss Plating facility (Foss) located at 8140 Secura Way in the City of Santa Fe Springs, California (Site). During a meeting conducted at the Site facility on December 14, 2006, DTSC verbally requested that the limits of affected materials be further evaluated in known areas of concern (AOCs) and that environmental conditions be evaluated beneath the portions of the facility where data gaps were present (wastewater treatment vaults). In accordance with the DTSC request, *ASTECH* submitted a Site Assessment Workplan dated March 27, 2007.

This Site Assessment Report (SAR) is organized into nine sections as follows: Section 1.0 presents an introduction; Section 2.0 presents background information including a description of the former Site facility and a brief historical summary. Section 3.0 presents the environmental setting of the Site including regional groundwater information. Section 4.0 presents the field methods used in performing the additional Site assessment, Section 5.0 presents the results of the additional Site assessment. Section 6.0 presents data validation, and a discussion of the findings is presented in Sections 7.0. Conclusions are presented in Section 8.0 and the project limitations are discussed in Section 9.0.

The objectives of the Additional Site Assessment activities performed at the facility include the following:

- Characterize metal concentrations in concrete surface materials present within the building foundation wastewater treatment vaults;
- Further evaluate the limits of affected materials in the AOCs previously identified beneath the interior portion of Building #1;
- Evaluate shallow soil conditions beneath the wastewater treatment units in order to assess if releases have occurred beneath the former subsurface vaults;

The scope of the assessment included:

- Utility locating to identify potential subsurface obstructions at the planned sampling locations;
- Advancement of two continuously cored soil borings to establish the soil stratigraphy profile in vadose zone sediments up to 20-feet bgs;
- Installation and sampling of eleven (11) dual nested soil vapor probes; and
- Assess shallow soil beneath the former waste water treatment vaults

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Site property is located on the eastern side of Secura Way in a mixed commercial and light industrial portion of Santa Fe Springs, County of Los Angeles, California (Figure 1 – Site Location Map). The Site property is improved with two (2) structures that are adjoined by a common wall. The northernmost partition of the structure (Building #1) comprises approximately 9,193-sqaure feet while the southern building (Building #2) consists of approximately 3,452 ft^2. A portion of Building #1 (approximately 1,380-square feet) accommodates a second floor that is situated above the northwestern perimeter. The remaining portion of the Site property consists of approximately 3,320-square feet of paved open space (yard area) located between Secura Way and structure.

2.2 SITE HISTORY

The Site property was historically utilized for agricultural purposes between the late 1920s through 1950s. Development of the Site property for commercial usage was apparently initiated in the early 1960s. The former Foss plating operations commenced in 1968 and operated until facility closure in 2005. Specialty plating operations conducted during the lifetime of the facility included zinc, nickel, copper, and chromium plating.

Two main plating lines and a stripping line were previously operated in Building #1. A vapor degreaser was formerly maintained in a subsurface concrete vault located along the northern side of the building partition (Figure 4-2). Several smaller sump structures and a network of open-top (exposed) French drain lines (troughs) are incorporated in the concrete foundation materials of Building #1. The second floor of Building #1 was previously utilized for office, clerical, storage activities, and laboratory purposes. Key physical features concerning the former plating operations are presented as Figure 2: Physical Feature Reference Map.

A 3-stage industrial waste pretreatment unit (clarifier) was previously abandoned by Jacks Environmental Services Corporation (JESI) in the northern portion of the yard-area. The results of the sampling activities were submitted to the Santa Fe Springs Fire Department (SFSFD). In a report prepared by JESI (dated May 3, 2003). A Preliminary Site Assessment *(PSA)* was performed at the Site by *JETI* consisting of the advancement of eleven soil borings (BSL1 through BSL-10 & BGS-1) to a maximum depth of 15-feet below ground surface (bgs). Additional shallow soil borings were drilled near the former nickel treatment area (EB1) and along plating line (EB2). Chemical analysis of samples collected during the PSA included total metals analysis of the CAM-17 metals (EPA Method 6010), cyanide (EPA Method 9010B), volatile organic compounds (EPA Method 8260B), pH (EPA Method 9045C), and hexavalent chromium (Cr^{6+}). The results of the sampling activities performed by JETI indicated are summarized in the following table (Table 2-1: Historical Soil Data).

TABLE 2-1:
SUMMARY OF HISTORICAL SOIL DATA
Parts Per Million (mg/kg)
Dates Sampled: September 17, 2004

Sample I.D	Sampling Date	Sample Depth (ft)	Total Chromium mg/kg	Hexavalent Chromium mg/kg	Nickel mg/kg
BSL-1	09/17/04	1	21.8	0.097	17
	09/17/04	10	131	85.3	11.9
	09/17/04	15	443	NA	23.6
BSL-2	09/17/04	1	18.2	0.076	14.9
	09/17/04	10	46.5	25.7	30.5
BSL-3	09/17/04	25	18.5	0.081	20.2
BSL-4	09/17/04	25	35	NA	6,730
BSL-4	09/17/04	25	17.1	NA	11,000
BSL-5	09/17/04	1	20.8	0.101	90.2
	09/17/04	5	18.3	0.064	2,820
	09/17/04	7	18.9	NA	5,350
BSL-6	09/17/04	1	24.8	0.099	22
	09/17/04	5	21.5	0.130	20.2
BSL-7	09/17/04	5	21.8	NA	2,420
	09/17/04	15	20	NA	6,590
BSL-8	09/17/04	1	19	0.35	1,550
	09/17/04	10	22.8	NA	19.7
BSL-9	09/17/04	1	25.2	1.06	16.2
	09/17/04	10	915	807	244
	09/17/04	15	1,220	NA	24
BSL-10	09/17/04	1	20.7	0.110	15.5
	09/17/04	10	17.2	0.185	21.9
BGS-1	09/17/04	1	18.8	NA	14.7
	09/17/04	10	15.5	NA	12.5
EB-1	09/24/04	1	24.8	0.099	22
	09/24/04	5	21.5	0.130	20.2
	09/24/04				
EB-2	09/24/04	1	20.8	0.101	90.2
	09/24/04	5	18.3	0.064	2,820
	09/24/04	7	18.9	NA	5,350

Notes:
Mg/kg – milligrams per kilogram
NA – not analyzed
Ft – feet below ground surface

Between March 13-14, 2006, Winefield and Associates (W&A) performed additional characterization at the Site facility under the direction of DTSC. The sampling activities consisted of the advancement of two (2) vadose zone borings (BSL-11 and BSL-12), the installation of three (3) nested soil vapor probes (VP1, VP2, & VP3), and the collection of three (3) hydropunch groundwater samples (GW1, GW2, & GW3). Select soil samples from the vapor probe locations were also analyzed for total metals.

A total of six (6) volatile organic compounds (VOCs) were detected during the soil vapor survey and included chloroethane, chloroform, 1,1-Dichloroethene (1,1-DCE), tetrachloroethylene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), and trichloroethylene (TCE). The most frequently detected soil gas compounds were PCE and 1,1-DCE. PCE was detected in all eleven (11) vapor samples and ranged in concentration from 3.1 micrograms per liter (µg/L or parts per billion) to 8.6 µg/L. Detectable concentrations of 1,1-DCE were reported in all eleven samples and ranged in concentration from 0.24 µg/L to 4.5 µg/L. Concentrations of 1,1,1-TCA were detected in ten out of eleven samples and ranged in concentration from 0.032 µg/L to 0.16 µg/L. TCE was detected in four (4) samples and ranged in concentration from 0.17 µg/L to 0.19 µg/L Maximum concentrations of the remaining VOC compounds detected were reported at 0.66 µg/L chloroethane and 0.99 µg/L chloroform. The results of the March 2006 soil vapor investigation are summarized in the following table (Table 2-2: Historical Soil Gas Data).

TABLE 2-2:
SUMMARY OF HISTORICAL SOIL GAS DATA
Parts Per Billion (µg/L)
Dates Sampled: March 13-14, 2006

Sample ID	Sample Depth (ft)	1,1-DCE µg/L	PCE µg/L	1,1-TCA µg/L	TCE µg/L	Chloroethane µg/L	Chloroform µg/L
VP-1	5	0.32	4.4	0.062	ND<0.01	ND<0.01	ND<0.01
	5	0.24	4.3	0.070	ND<0.01	ND<0.01	ND<0.01
	15	0.43	4.0	0.077	ND<0.01	ND<0.01	ND<0.01
VP-2	5*	0.51	3.2	0.032	0.18	ND<0.01	ND<0.01
	5*	0.52	3.1	ND<0.01	ND<0.01	ND<0.01	ND<0.01
	5*	0.53	3.3	0.076	ND<0.01	ND<0.01	ND<0.01
	15*	3.4	5.0	0.13	0.17	0.25	ND<0.01
	15*	3.6	7.0	0.13	0.18	0.24	ND<0.01
	15*	4.5	8.6	0.14	0.19	ND<0.01	0.26
VP-3	5	0.39	4.6	0.14	ND<0.01	0.66	ND<0.01
	15	0.58	7.1	0.16	ND<0.01	ND<0.01	0.99

Notes: (*) = Purge Test

A total of four (4) VOC compounds were detected in the groundwater grab samples collected from the hydropunch borings including chloroform, 1,1-DCE, PCE, and TCE. Each of the four analytes were detected in all of the groundwater samples and ranged in concentration from 11 µg/l (parts per billion) to 28 µg/l chloroform, 3.1 µg/l to 4.6µg/l 1,1-DCE, 220 µg/l to 490 µg/l PCE, and 3.0 µg/l to 6.5 µg/l TCE. A total of three (3) inorganic constituents were detected in groundwater and included chromium, hexavalent chrome, and nickel. Total dissolved chromium was detected in all three groundwater samples and ranged in concentration from 1.0 mg/l to 2.3 mg/l. Hexavalent chrome (Cr^{6+}) was detected in all the groundwater samples and ranged in concentration between 0.004 mg/l and 0.91 mg/l. Dissolved nickel was detected in all three groundwater grab samples and ranged in concentration between 1.2 mg/l and 61 mg/l. Groundwater grab sample results for the March 2006 investigation are summarized in the following tables (Table 2-3: Summary of VOCs Detected in Groundwater & Table 2-4: Summary of Metals Detected in Groundwater).

TABLE 2-3:
SUMMARY OF VOCS DETECTED IN GROUNDWATER
Parts Per Billion (µg/L)
Dates Sampled: March 13-14, 2006

Sample I.D	1,1-DCE µg/L	PCE µg/L	TCE µg/L	Chloroform µg/L
GW-1	4.6	230	6.5	28
GW-2	3.1	220	3.0	17
GW-3	5.7	490	3.8	11
MCLs	6.0	5.0	5.0	N/A

Notes: MCLs – California modified maximum contaminant limits

TABLE 2-4:
SUMMARY OF METALS IN GROUNDWATER
Parts Per Million (mg/l)
Dates Sampled: March 13-14, 2006

Sample I.D	Total Chromium mg/l	Hexavalent Chromium mg/l	Nickel mg/l
GW-1	2.3	0.017	1.8
GW-2	0.89	0.004	1.2
GW-3	1	0.91	61
MCLs	0.05	0.0025*	0.1

Notes: MCLs – California modified maximum contaminant limits
* California Public Health Goal

A total of nineteen (19) soil samples including one co-located field duplicate were submitted for analysis during the March 2006 investigation activities for total chromium, hexavalent chromium, and nickel. Total chromium was detected in soil at concentrations ranging from 25 mg/kg to 1,300 mg/kg. Hexvalent chromium was detected in eight out of twelve samples

selected for analysis and ranged in concentration from 0.75 mg/kg to 1,800 mg/kg. Nickel was detected in soil at concentrations ranging from 27 mg/kg to 35,000 mg/kg. Soil sample results for the March 2006 investigation are summarized in the following tables (Table 2-5: Summary of Metals Detected in Soil).

TABLE 2-5:
SUMMARY OF METALS DETECTED IN SOIL
Parts Per Million (mg/kg)
Dates Sampled: March 13-14, 2006

Sample LD	Sample Depth (ft)	Total Chromium	Hexavalent Chromium	Nickel mg/kg
VP-1	25	43	0.94	29
VP-2	25	41	0.75	29
VP-3	25	150	240	43
GW-1	20	130	46	40
	25	120	140	29
GW-2	15	1,300	1,800	120
	20	38	1.1	27
	20	36	2.8	28
GW-3	15	40	ND	15,000
	15	46	ND	14,000
	20	31	ND	32
	25	35	ND	30
BSL-11	10	32	ND	35,000
	15	43	ND	4,600
	20	30	ND	24
BSL-12	10	25	ND	17,000
	15	37	ND	30,000
	15	34	ND	23,000
	20	36	ND	46

.Notes: NDs – Not Detected

The findings of the March 2006 investigation were submitted to DTSC in a report entitled *Phase II ESA - Foss Plating*. The report concluded that dissolved concentrations of chromium and hexavalent chromium exceeded the maximum contaminant level (MCL) in groundwater and that the nickel concentrations exceeded human heath screening criteria. Further investigation was recommended by W&A concerning the installation of groundwater monitoring wells, a more detailed health risk assessment, the execution of a deed restriction, and the development of fate and transport models of subsurface contaminants.

3.0 ENVIRONMENTAL SETTING

3.1 PHYSIOGRAPHY

The Site is located in the Santa Fe Springs Plain of the Coastal Plain of Los Angeles County and is depicted on the Whittier Quadrangle 7.5-Minute topographic map published by the United States Geological Survey (Figure 1: Site Location Map). The Los Angeles Coastal Plain is bounded by the Santa Monica Mountains on the north, the Elysian, Repetto, Merced, and the Puente Hills on the southeast, and the Pacific Ocean on the south and west.

The Santa Fe Springs Plain is located south of Whittier and east of the San Gabriel River. The plain is apparently a continuation of the Coyote Hills uplift to the southeast; however has only a low, slightly rolling topographic relief. The plain has probably been warped by the Santa Fe Springs-Coyote Hills anticlinal system and dips toward the northeast and southwest. The Site is located midway between the Santa Fe Springs Anticline and the Norwalk Syncline. Subsequently, subsurface formations presumably dip southward toward the Downey Plain. Regional stratigraphy beneath the Site consists of the Upper Pleistocene Lakewood Formation from ground surface to approximately 173 feet bgs, underlain by the Lower Pleistocene San Pedro Formation to approximately 1,140 feet bgs (CDWR, 1961-Bulleton 104).

3.2 Hydrology

The Site is located in the Montebello Forebay Area and is regionally considered an important recharge area within the Central Basin. The Montebello Forebay extends southward from the Whittier Narrows and is overlain by portions of the Montebello, Downey, and Santa Fe Springs Plains. The upper most recognized water bearing unit beneath the Site facility most likely represents sediments comprising the Gaspur Aquifer. A portion of the Gaspur Aquifer extends northeasterly through the Montebello Forebay and into the Whittier Narrows. Groundwater has been encountered beneath the Site at depths ranging between 28-32 feet bgs and is consistent with contour maps depicting the Gaspur within the Los Angeles Coastal Basin. The estimated flow direction of first encountered groundwater beneath the Site is assumed to be southwest toward the San Gabriel River. A monitoring well, associated with the upgradient Mission Linen Site, is located within Secura Way immediately adjacent to the entrance of Building #1 of the Foss facility.

The Site property is located within a portion of the Los Angeles Basin designated by the United States Environmental Protection Agency as the Omega Chemical Superfund Site (Omega Superfund. The Omega Superfund is situated approximately ¾ miles northeast of the Foss facility and the perimeters of the area of concern extend to within less than ½ mile of the Site property. The axis of the dissolved VOC plume extends slightly southwest of the Site property based on groundwater characterization studies published in February 2002. A review of isometric contour maps detailing chemicals of concern within the Omega Superfund depict the Site facility just outside of the area of influence.

4.0 FIELD SAMPLING METHODS

In accordance with the DTSC approved Sample and Analysis Plan (SAP) dated March 29, 2007, a total of twenty-three (23) soil borings were advanced and five (5) dual nested vapor probes were installed. The Site investigation program also included the collection of twenty-one (21) concrete core samples from the foundation of Building #1 and wastewater treatment vaults. Field methods employed during the Site investigation activities are described in the proceeding section of this SAR.

4.1 DRILLING METHODS

Soil borings were advanced using a truck-mounted Geo-Probe 6600™ rig employing direct push drilling techniques. Areas with limited accessibility were investigated using a Series 420 ™ portable Geo-Probe drilling device. In accordance with the DTSC approved workplan, two continuous core borings (Macro-Core™) were initially advanced during the commencement of the field activities in order to evaluate subsurface sediments for vapor probe installation activities. Depth intervals intended for matrix soil samples included shallow sediments directly beneath any floor or foundation (0-2 feet bgs) and at 5-foot depth intervals thereafter.

Sampling equipment was properly cleaned (decontaminated) between boring locations and at each discrete interval. Decontamination was performed using a triple rinse cleaning process consisting of a phosphate-free primary wash (Alconox or TSP), a secondary stage with a low pH water to reduce the likelihood cross-contamination of metals (mild solution of nitric acid HN03 or vinegar), and a tertiary rinse using de-ionized water.

Materials encountered during drilling activities were recorded on field boring logs by a California Registered Geologist using the Unified Soil Classification System. Information on subsurface geology was maintained for each boring location and is presented on boring logs presented in Appendix A. A photo-ionization detector (PID) calibrated with hexane span gas was utilized to measure field VOC concentrations. Soil samples to be screened in the field for VOC content were placed in sealed plastic bags, allowed to equilibrate, and measured for VOCs at a distance of 3 inches from the surface of the sample.

4.2 SOIL SAMPLING METHODS

Soil samples were collected from the direct push borings using a 24-inch long stainless steel Large-Bore™ Sampler lined with 1-inch diameter acetate sleeves. The Large Bore Sampler is mounted at the bottom of a string of drive rods, and driven to the target sampling depth. The drive point is then released and the sampler driven approximately 24 inches. The sampler is then retrived and the acetate liner containing the sample is removed for further evaluation. Soil contained in the bottom most portion of the acetate liner (nearest to the cutting shoe) was utilized for testing. This portion of the sample sleeve is least likely to contain slough from the formation and is most representative of the intended depth interval.

Soil samples for analysis of volatile organic compounds (VOCs) were collected in accordance with EPA Method 5035. Upon retrieval of the sampler, a 5-gram portion of soil contained in the acetate liner was extracted using a disposable calibrated syringe. The soil plug was immediate placed into three pre-weighed (tiered) glass vials with extraction solvents (preservatives) as described in method SW-846.

The sealed glass vials were labeled with respect to the sampling location and placed inside a sealed (Ziploc) plastic bag for storage and subsequent transport. The outside of the bags was labeled with the sampling location, time, date and company name. The samples intended for inorganic analysis were collected from the balance of soil remaining in the acetate liner and sealed with Teflon film (Parafilm™), secured with plastic end caps, and double bagged in sealed. plastic baggies. The samples were then recorded on a chain-of-custody document and placed in cold storage with a mean temperature at 4° C until submittal to the analytical laboratory.

4.3 Sample Labeling, Documentation, & Nomenclature

The nomenclature used to identify the samples consisted of an ordered sequence of identifiers including the general facility area, the media type (soil-SB or soil vapor-SV), boring number, and depth interval. The sample labels included information such as the project name, the time and date of collection, the analysis requested, and the sample identification number. The adhesive sample labels were securely affixed to the sample container and placed into double wrapped sealed baggies for transport to the analytical laboratory

A chain of custody (COC) document was maintained from the moment the sample was collected until its final disposition. Each custody transfer was recorded by signature on the COC document and a copy of the record was kept by each individual who signed. The chain of custody records provided by the analytical laboratory included the sample identification number, media, sample date and time, names(s) and signature(s) of sampler(s), and the signature(s) of all individual(s) with control over samples. The sample documents were prepared legibly in ink.

4.4 Nested Vapor Probe Installation

Multiple-depth (nested), soil vapor collection probes were installed at five locations (SV1 through SV4 and SV101). The probes were installed (typically at 5, 10 and 15 feet bgs) by advancing a 1-inch diameter drive rod equipped with an expendable drive point to the total depth. The drill-rod is retracted approximately 12-inches to disengage the drive tip. A perforated implant screen attached to ¼-inch diameter (O.D) polyethylene tubing is fed through the drive rods to the bottom of the boring. The implant is then withdrawn approximately 6 inches. Pre-washed No. 3 Monterey Sand is poured through the drill rod and brought up to approximately 6 inches above the implant screen. The drive rods are retracted while fine granular bentonite chips(No. 8) is alternately placed and hydrated in 6 inch lifts to the next probe interval. The shallower probe intervals are similarly installed in the same hole. Additional hydrated bentonite is placed around the tubing exiting the ground surface and the borehole to minimize intrusion of ambient air (which may dilute or affect soil gas results.) The nested probes were color coded to indicate depth (clear/shallow, yellow/deep) and sealed with protective caps.

4.5 Soil sample Analytical Methods

Soil samples were submitted for chemical analysis to Chemical and Environmental Laboratories (C&E); a Department of Health Services accredited testing facility located in Santa Fe Springs, California (ELAP Certificate No. 2268). In accordance with the DTSC approved workplan, chemical analysis was performed for Title-22 Priority Pollutant Metals and select constituents using EPA Method 6010B, hexavalent chrome (Chrome VI) using EPA Method 7199, cyanide using EPA Method 7471, and pH using EPA Method 150.1. The specific analysis for each of the samples is summarized in the following table (Table 4-2).

**TABLE 4-2:
SAMPLE AND ANALYSIS
PROGRAM**

Sample Identification No.	EPA Method 6010B Title-22 Metals	EPA Method 6010B Cr	EPA Method 6010B Ni	EPA Method 6010B As	EPA Method 7471 Cu	EPA Method 7199 Cr^{6+}	EPA Method 150.1 pH
EB1-2		X	X	X			X
EB1-5		X	X	X			
EB1-10		X	X	X			
EB1-15		X	X	X			
EB1-20		X	X	X			
EB2-2		X	X				
EB2-5		X	X				
EB2-10		X	X				
EB2-15		X	X				
EB2-20		X	X				
EB3-2		X	X				
EB3-5		X	X				
EB3-10		X	X				
EB3-15		X	X				
EB3-20		X	X				
EB4-2		X	X	X			X
EB4-5		X	X				
EB4-10		X	X				
EB4-15		X	X				
EB4-20		X	X				
EB5-2		X	X				
EB5-5		X	X				
EB5-10		X	X				
EB5-15		X	X				
EB5-20		X	X				
EB6-5	X						
EB6-10	X						
EB6-15	X						
EB6-20	X						
EB6-25	X						
EB6-30	X						

**TABLE 4-2:
SAMPLE AND ANALYSIS
PROGRAM**

Sample Identification No.	EPA Method 6010B Title-22 Metals	EPA Method 6010B Cr	EPA Method 6010B Ni	EPA Method 6010B As	EPA Method 7471 Cn	EPA Method 7199 Cr^{6+}	EPA Method 150.1 pH
EB7-2		X	X				
EB7-5		X	X				
EB7-10		X	X			X	
EB7-15		X	X			X	
EB7-20		X	X				
EB8-2		X	X			X	
EB8-5		X	X			X	
EB8-10		X	X			X	
EB8-15		X	X			X	
EB8-20		X	X			X	
EB9-2		X	X			X	
EB9-5		X	X			X	
EB9-10		X	X			X	
EB9-15		X	X			X	
EB9-20		X	X			X	
EB10-5	X					X	
EB10-10	X					X	
EB10-15	X					X	
EB10-20	X					X	
EB10-25	X					X	
EB10-30	X					X	
EB11-2		X	X			X	
EB11-5		X	X			X	
EB11-10		X	X			X	
EB11-15		X	X			X	
EB11-20		X	X			X	
EB12-2		X	X				
EB12-5		X	X				
EB13-2	X					X	X
EB13-5	X						X
EB14-2	X						X
EB14-5	X						X
EB15-2		X	X				
EB15-5		X	X				
EB15-10		X	X				
EB16-2	X						X
EB16-5	X						X
EB17-2		X	X				
EB17-5		X	X				
EB17-10		X	X				
EB18-2	X						X
EB18-5	X						X

**TABLE 4-2:
SAMPLE AND ANALYSIS
PROGRAM**

Sample Identification No.	EPA Method 6010B Title-22 Metals	EPA Method 6010B Cr	EPA Method 6010B Ni	EPA Method 6010B As	EPA Method 7471 Cu	EPA Method 7199 Cr^{6+}	EPA Method 150.1 pH
EB19-2		X	X				
EB19-5		X	X				
EB19-10		X	X				
EB20-2	X						
EB20-5	X						
EB21-2		X	X				
EB21-5		X	X				
EB21-10		X	X				
EB22-2	X						
EB22-5	X						
EB23-2	X						
EB23-5	X						
CC1	X						
CC2	X						
CC3	X						
CC4	X						
CC5	X						
CC6	X						
CC7	X						
CC8	X						
CC9	X						
CC10	X						
CC11	X						
CC12	X						
CC13	X						
CC14	X						
CC15	X						
CC16	X						
CC17	X						
CC18	X						
CC19	X						
CC20	X						
CC21	X						
Total Number of Samples	**52**	**59**	**59**	**6**	**0**	**24**	**10**

4.6 SOIL VAPOR SURVEY

From August 14 to 17, 2007, a total of twenty-six (26) soil gas samples were collected by HydroGeoSpectrum (HGS) of Los Angeles, California. The soil vapor survey was performed by HGS in accordance with Section 4 of DTSC guidelines. The tubing exiting the surface of the ground is connected to a glass sampling bulb fitted with Teflon stopcocks and a viton rubber sampling port. The bulb is connected in turn to a vacuum gauge, flowmeter, and portable sampling pump. Initially both stopcocks are closed, and the absence of flow and the presence of a slight vacuum is noted. This demonstrates that the sampling train on the far end of the bulb is leak-tight. Then the first stopcock (pump end) is opened; the absence of flow demonstrates that the sampling bulb itself is leaktight. The ground end of the bulb is then opened, and a flow of 150-200 ml/min is maintained for seven to ten purge volumes. During the sampling a leak-check compound such as lab-grade isobutane is placed near and around the sample train. Any trace of this compound detected in the sample indicates the intrusion of ambient air into the sampling train, invalidating the results of that sample. No such leaks were detected with any of the samples. The stopcocks were then closed (pump end first), and the sample retained in the container.

Approximately 25 nanograms (NG) each of deutero-chloroform, deutero-methylene chloride, deutero-acetone, deutero-toluene and deutero-benzene were added through the septum into the bulb. The recovery of these isotopically-labeled surrogate compounds demonstrates that the bulbs have remained leak-free up until the actual analysis. A recovery of 90% for the deuterated-benzene, deutero-methylene chloride, deuterated toluene and the deuterated chloroform is desirable; a recovery of less than 75% requires reinjection, resampling or may *qualify* the sample results. The deuterated acetone is added as a measure of water vapor in the sampling and analysis systems; a recovery of greater than 70% is acceptable, although levels of the water-soluble compounds (ketones) may be affected. In the event that water-soluble related compounds are detected, the deuterated acetone may be used as an internal standard for quantitation. All recoveries during this project were within acceptable range. These bulbs were then delivered to the mobile laboratory for analysis by GCMS.

4.7 CONCRETE SAMPLING

A total of twenty-one (21) 2-inch diameter concrete core samples (CC1through CC21) were collected during the Site investigation activities. The core samples were collected from portions of the facility building where significant etching was observed to be present in the concrete foundation. In addition, core samples were collected from the bottom (floor) of each of the former subsurface wastewater treatment vaults. The samples were collected by drilling into the concrete foundation using a tungsten carbide core barrel and retrieving the resulting core. An electronically powered drill press with a vacuum mounted drive assembly was used to extract the cores. The introduction of water into the core barrel was minimized during cutting in order to prevent surface washing of the cut. Upon retrieval, the core sample was immediately placed into a sealed polyurethane container. The locations of the concrete core samples are depicted on Figure 4.

5.0 INVESTIGATION RESULTS

A total of twenty-three (23) exploratory borings (EB1 through EB23) were advanced in areas of concern previously identified at the Site. The lateral limits of impact were further characterized for chromium compounds and nickel beneath portions of the interior of the building. Shallow soils were investigated beneath the former wastewater treatment vaults by advancing one exploratory boring in the center-point of each of the twelve subsurface structures. The further Site investigation activities also included an evaluation of industrial hygiene concerning the concrete surface materials present in the building foundation and wastewater treatment vaults. The findings of the investigation are summarized in the following section of this SAR.

5.1 METALS IN CONCRETE

A total of nine (9) metal compounds were detected in the concrete core samples: arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc. Of these metals, only arsenic, total chromium, copper, and nickel were found in concentrations exceeding either TTLC or 10 times the STLC. Nickel was detected in all of the concrete core samples and ranged in concentration between 16 mg/kg and 5,893 mg/kg. Total chromium was detected in all of the concrete core samples and ranged in concentration between 12 mg/kg and 5,561 mg/kg. Arsenic was detected in fifteen out of twenty-one concrete core samples and ranged in concentration between 4 mg/kg and 150 mg/kg. Additional Title-22 metal compounds were reported in concrete at maximum concentrations of 157 mg/kg barium, 26 mg/kg cobalt, 674 mg/kg copper, 309mg/kg lead, 19 mg/kg vanadium, and 223 mg/kg zinc. Waste Extraction Tests were performed on select concrete core samples and analyzed for arsenic, chromium, and nickel using EPA 6010B. Results indicate that core CC8 contained soluble arsenic concentrations in excess of STLCs, cores CC6, CC7 and CC11 contained soluble total chromium concentrations in excess of STLCs, and cores CC2, CC3, CC8, CC10, CC11, CC14, CC15, and CC16 contained soluble nickel concentrations in excess of STLC. Souble arsenic was detected at 21.3 milligrams per liter (mg/l), soluble chromium ranged from 88.5 to 589.3 mg/l, and soluble nickel ranged from 21.3 to 948 mg/l. A summary of metals detected in concrete are presented in Table 5-2 and copies of the certified analytical results are included as Appendix A.

5.2 METALS IN SOIL

A total of ten (10) metal compounds were detected in the soil samples collected during the investigation: arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, zinc, and hexavalent chromium (Chromium VI or Cr^{6+}). Of these, arsenic, total chromium, nickel and hexavalent chrome in select soil samples exceeded California-modified EPA Region IX Preliminary Remediation Goals (PRGs, 2004); select soil samples contained concentrations of total chromium, nickel and hexavalent chromium exceeding total threshold limit concentrations (TTLC); while a select samples contained concentrations of total chromium, total lead, nickel and hexavalent chromium exceeding soluble threshold limit concentrations (STLC). The distribution of total chromium and nickel in soil are illustrated in Figures 5-10. A summary of metals detected in soil is presented in Table 5-1 and copies of the certified analytical results are included as Appendix A.

Arsenic concentrations exceeding the DTSC-accepted background of 6 milligrams per kilogram (mg/kg) of arsenic in residential properties were observed in boring EB10 at 5 and 10 feet below ground surface (bgs), and in EB13 at 2 feet bgs. These concentrations attenuated to 6 mg/kg or below by the next sampling interval. Concentrations of arsenic did not exceed TTLC or 10 times STLC values.

Total chromium was detected in all of the soil samples and ranged in concentration between 4 mg/kg and 8,537 mg/kg. Concentrations of total chromium exceeding PRG values were found in borings EB7 at 15 feet bgs, EB8 from 2 to 20 feet bgs, EB9 from 2 to 20 feet, EB10 (MW-2) from 5 to 30 feet, EB11 from 2 to 20 feet, and in EB13 at 2 feet bgs. Concentrations exceeding TTLC were found in boring EB9 from 2 to 20 feet bgs, and in boring EB10 (MW-2) at 10 feet bgs. Twenty four samples contained concentrations of total chromium exceeding 10 times the STLC.

Hexavalent chromium was detected at concentrations ranging from below detection limits (1-sample) to a maximum of 973.68 mg/kg. Twenty two of 27 samples analyzed contained concentrations of hexavalent chromium exceeding PRGs and 10 times the STLC. These samples were found in boring EB7 at 10 to 15 feet bgs, EB8 5 to 20 feet, in EB9 from 2 to 20 feet, in EB10 (MW-2) from 5 to 30 feet, and in EB11 from 2 to 20 feet bgs. Samples from EB7 at 15 feet, EB8 at 15 feet, EB9 at 20 feet, EB10 (MW-2) at 15 feet, and EB11 at 10 and 15 feet bgs contained hexavalent chromium concentrations exceeding TTLC values.

Approximately half the samples analyzed contained detectable concentrations of total lead. Total lead concentrations ranged from 2 to 102 mg/kg. Only one sample contained lead concentrations in excess of 10 times the STLC, in boring EB13 at 5 feet bgs. Lead concentrations detected in other samples did not exceed PRG or TTLC values.

Nickel was detected in all of the samples submitted for analysis and ranged in concentration between 4 mg/kg (parts per million) and 19,304 mg/kg. Concentrations of nickel exceeding PRG and TTLC values were found in boring EB2 from 2 to 20 feet bgs, EB3 from 2 to 10 feet, EB4 at 5 feet, EB5 at 10 and 15 feet bgs, EB6 (MW-1) from 5 to 15 feet, and EB13 at 2 feet bgs. Samples containing nickel concentrations exceeding 10 times the STLC include the above and EB5 at 2 and 5 feet, EB8 at 5 and 10 feet, EB9 at 5 feet, EB10 (MW-2) at 5 feet, EB11 at 10 feet, and EB15 at 5 feet.

5.3 VOCs in Soil

A total of seven (7) volatile organic compounds were detected in soil and include: benzene, chloroform, 1,1-Dichloroethene (1,1 DCE), tetrachloroethylene (PCE), toluene, ethylbenzene, and total xylenes. The most frequently detected compound was PCE which was present above method detection limits in all nine samples. All other VOCs were reported as single detections. PCE was detected in soil at concentrations ranging between 3 µg/kg (parts per billion) and 35 µg/kg. Single detections of BTEX were reported at 11 µg/kg benzene, 10 µg/kg toluene, 2 µg/kg ethylbenzene, and 7 µg/kg total xylenes. Single detections of chloroform and 1,1-dichloroethene were reported in soil at 8 µg/kg and 3 µg/kg, respectively. A summary of VOCs detected in soil are presented in Table 5-3 and copies of the certified analytical results are included as Appendix A.

5.4 SOIL VAPOR SURVEY RESULTS

Two (2) volatile organic compounds were detected during the soil gas survey and include: chloroform and tetrachloroethylene (PCE). PCE was reported in all twenty soil gas samples and ranged in concentration between 0.5 µg/L (parts per billion) and 23 µg/L. Chloroform was detected in seventeen out of twenty samples and ranged in concentration between 1.2 µg/L and 5.4 µg/L. The results of the soil gas survey are presented in Table 5-4 and copies of the certified analytical results are included as Appendix A.

6.0 DATA VALIDATION

Data validation consists of reviewing field and laboratory quality control (QC) data to determine if laboratory results are valid. Data quality objectives will be evaluated based on the results of the field data and data validation process. A summary of the Quality Assurance, Quality Control (QA/QC) program is discussed below.

6.1 FIELD QC

The purpose of Field QC is to evaluate the sampling integrity as well as possible cross contamination from sampling equipment. A discussion of these techniques and their results follows.

A tracer gas consisting of n-Propanol was placed at the tubing-surface interface before sampling each vapor probe location in order to evaluate possible leakage of ambient air into the sample probe during the sampling event. This compound was tested during the 8260B analytical run and not found to be present in any of the thirty-nine soil gas samples collected at the Site.

Duplicate soil samples (2) were collected at a rate of one co-located sample for every 20 samples. The field duplicate samples were collected from Borings EB10-5 (MW-2) and EB6-10 (MW-1). The relative percent difference between the co-located soil sample and the master ranged between 2% - 27% for Title-22 Priority Pollutant Metals and between 5% - 86% for hexavalent chrome. These reported differences are not unexpected due to the inherent heterogeneity in soil. A summary of metal concentrators detected in soil and the duplicate sample results are presented in Table 5-2: Soil Sample Results and copies of the certified analytical results are included in Appendix B.

6.2 LABORATORY QC

Laboratory QC evaluates the integrity of laboratory techniques, equipment calibration, and possible cross contamination during analysis. A discussion of these techniques and their results follows.

6.2.1 SOIL VAPOR

Instrument continuing calibration verification, QC reference standards, instrument blanks and ambient air blanks were analyzed during the soil vapor survey every 12 hours. In addition, matrix spike and matrix spike duplicates were analyzed with each batch of soil gas samples. The results of the soil gas QA/QC data are included in Appendix A and indicate that the data is valid.

6.7.2 LAND-BASED LABORATORY (METALS)

Sample holding times for the land based analysis were within the allowable range for each of the metal constituents tested. Additional QA/QC data are included in Appendix A and indicate that the data is valid.

7.0 DISCUSSION OF FINDINGS

In general, the Site investigation activities were performed in accordance with the approved sampling plan. However, several modifications were made concerning the proposed locations of the soil borings and the targeted depth intervals of the soil vapor probes. Conditions which accounted for changes in the proposed scope of work included access limitations of remote sampling equipment, drilling refusal, and low permeability (high vacuum) sediments encountered beneath portions of the Site property. The following summary provides the technical rationale for the specific changes that were made to the previously approved sampling plan:

- Data collected using a field portable XRF instrument were not utilized in evaluating the structural hygiene of concrete surface materials present in the foundation of Building #1 and the wastewater treatment vaults. Direct readings of unprepared samples using an XRF did not satisfy data quality objectives when compared to data sets reported by the land based laboratory.
- The proposed installation of groundwater monitoring wells within the former facility building (MW-1 & MW-2) and adjacent to the wastewater treatment vaults (MW-3) was deferred in order to avoid damage during anticipated implementation of future remedial activities involving soil excavation and concrete removal.
- The 15-foot soil vapor probes were found to exhibit low flow conditions as a function of the formation and fine-grained sediment types.
- The location of proposed Boring EB23 was moved slightly (off-Set) to account for overhead obstructions.

Soil sample analytical results did not indicate that significant releases of inorganics (metals) have occurred beneath the wastewater treatment vaults with the exception of sample point EB13. Metal concentrations detected in the 2-foot soil sample collected from Boring EB13 showed that three test constituents exceeded USEPA Region IX PRGs and include arsenic, total chromium, and nickel. Maximum concentrations of these compounds were reported in the 2-foot soil sample collected from EB13 at 7 mg/kg arsenic, 1,650 mg/kg total chromium, and 2,369 mg/kg nickel. Based on the reported concentration of total chrome, Sample EB13-2 was further analyzed for hexavalent chromium and determined to be 17.062 mg/kg. Further analysis of deeper soil samples collected from Boring EB13 showed that all of the constituents of concern attenuated to acceptable levels (below PRGs) at a depth of 5-feet bgs. Concentrations of nickel decreased from 2,369 mg/kg to 75 mg/kg between 2-5 feet bgs in Boring EB13, total chromium decreased from 1,650 mg/kg to 21 mg/kg between 2-5 feet bgs, and arsenic levels reduced from 7 mg/kg to 3 mg/kg.

Further analysis of the vault bottom samples showed that VOCs were present in all of the 10-foot soil samples collected from the borings advanced beneath the subsurface treatment units. pH was measured in soil samples collected from beneath the former vaults between 6.46 and 8.89 and is within acceptable limits based on waste characterization criteria specified in Title 22 CCR. PCE was detected in all five soil samples collected in borings advanced beneath the exterior vaults (facility yard) and ranged in concentration between 3 µg/kg and 20 µg/kg. The highest reported concentration of PCE (35 µg/kg) was detected in the 15-foot soil sample collected from beneath the former vapor degreaser (Boring EB12) in the interior of Building #1.

Concrete surface materials present in the foundation of the building and wastewater treatment vaults were evaluated for metals in order to determine the criteria for closing the subsurface structures and dispose of waste debris. Laboratory analytical results of Title-22 Priority Pollutant Metals detected in concrete core samples indicated that Total Threshold Limit Concentrations (TTLC) were exceeded for nickel and total chromium in nine out of twenty-one samples. Six (6) core sample locations (CC8, CC10, CC11, CC14, CC15, CC16) exceeded TTLC in the vault bottoms while three (3) locations were elevated within the building interior (CC3, CC6, and CC7).

As shown on Figures 5 through 10, elevated concentrations of chromium, nickel, and hexavalent chromium extend from ground surface to at least 30 feet bgs. Concentrations of these metals reaching this depth exceed PRG and TTLCs.

Concentrations of VOCs in soil and soil vapor were relatively low and somewhat homogenous in distribution.

8 CONCLUSIONS

The Further Site Assessment activities and results described in this report support the following conclusions:

- A total of four metal constituents were detected in the shallow soil samples above their respective USEPA Region IX PRGs and include arsenic, nickel, total chromium, and hexavalent chromium (Chromium $^{6+}$). Concentrations of these compounds above the levels established for industrial sites requiring remediation were reported at a frequency of seven samples for arsenic, twenty samples for nickel, twenty-one samples for total chromium, and twenty-one samples for Chromium $^{6+}$.

- Arsenic often naturally occurs in soils at concentrations exceeding the risk based PRG value of 0.25 mg/kg (1×10^{-6} cancer risk). Therefore, an adjustment to the PRG is generally warranted because this value typically lies below background levels. Region IX has occasionally used the non-cancer endpoint of 22 mg/kg (EPA's acceptable target risk goal range of 10^{-6} to 10^{-4}) to evaluate sites upon considering background levels. The reported arsenic concentrations detected in the soil samples collected during the investigation fall within this range with the exception of the 10-foot sample collected from Boring EB10.

- Concentrations of Cr^{6+} were detected above the PRG (64 mg/kg) predominately in borings advanced in the southeastern portion of the Site building. The vertical extent of Cr^{6+} impact does not appear to attenuate with depth and most likely has impacted groundwater. Cr^{6+} was detected in the 30-foot sample collected from Boring EB10 at a concentration of 482.45 mg/kg.

- Concentrations of total chromium exceeded the USEPA Region 9 PRG (448 mg/kg) in a total of twenty-one soil samples. The area of concern is located in the southeastern portion of Building #1 and was defined at 2-feet bgs by borings EB9 and EB10. The lateral limits of impact at 5-feet bgs were characterized by Borings EB8, EB9, and EB10. The extent of chromium impacts at 10-feet bgs was defined by borings EB8, EB9, EB10, EB11. The extent of total chromium detected in the facility yard areas (former wastewater treatment vault) was identified by Boring EB13.

- Concentrations of nickel exceeded the USEPA Region 9 PRG (150 mg/kg) in a total of twenty-one soil samples. The area of impact from nickel is located in the northeastern portion of the interior of Building #1 and was defined in shallow soil (2-feet bgs) by borings EB2, EB3, EB4, and BSL 4. The lateral extent of nickel at 5-feet bgs was defined by borings EB2, EB3, EB4, EB5, EB6, BSL-6, BSL-7, EB8, EB9, and EB10. and in the former wastewater treatment vaults EB13 and EB15. The lateral extent of nickel at 10-feet bgs was defined by borings EB2, EB3, EB5, BSL5, EB9, BSL9, and BSL12. The vertical extent of nickel impact in the AOCs was found to attenuate to acceptable levels between 15-20 feet bgs in the interior portion of the building and at 5-feet beneath the former wastewater treatment vaults.

9.0 LIMITATIONS

The information provided in this report will be submitted to the Department of Toxic Substance Control Hazardous (DTSC) - Waste Management Program Tiered Permitting Corrective Action Branch, in accordance with directives stated in the May 1, 2007, correspondence. The conclusions and recommendations presented in this report are based upon information authorized in the proposal. Consultant makes no guarantees as to the accuracy or completeness of information obtained from others. It is possible that information exists beyond the scope of this investigation. Additional information which was not available to Consultant at the time of writing the Report may result in a modification of the conclusions and recommendations presented. The services performed by the Consultant have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. This report is not a legal opinion, but may under certain circumstances be prepared at the direction of counsel, may be in anticipation of litigation, and may be classified as an attorney client communication or as an attorney-work product.

The findings in this report are based on field observations and analytical data provided by an independent laboratory. Interpretations of the subsurface conditions at the site were made from these observations and data as well as limited number of data points from soil borings. Subsurface conditions may vary from these data points.

If there are any questions regarding any portion of the reported field activities, please contact Andrew J. Schmitt, Project Manager at (949) 338-4557.

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TABLES

2-1	SUMMARY OF METALS DETECTED IN SOIL – SEPTEMBER 2004
2-2	SUMMARY OF SOIL GAS CONCENTRATIONS – MARCH 2006
2-3	SUMMARY OF VOCS IN GROUNDWATER - MARCH 2006
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TABLE 5-1.

Summary Of Metals In Soil (mg/kg)

Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Sample ID	Date Sampled	Depth (Ft.)	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Th	V	Zn	Cr^{6+}	Cn	pH
Building Interior																						
EB1	6/21/07	2	NA	**3**	NA	NA	NA	**8**	NA	NA	NA	NA	NA	**7**	NA	NA	NA	NA	NA	NA	NA	**6.45**
	6/21/07	5	NA	**5**	NA	NA	NA	**9**	NA	NA	NA	NA	NA	**73**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	10	NA	**6**	NA	NA	NA	**9**	NA	NA	NA	NA	NA	**18**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	15	NA	**5**	NA	NA	NA	**12**	NA	NA	NA	NA	NA	**14**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	20	NA	**5**	NA	NA	NA	**12**	NA	NA	NA	NA	NA	**15**	NA	NA	NA	NA	NA	NA	NA	NA
EB2	6/21/07	2	NA	NA	NA	NA	NA	**12**	NA	NA	NA	NA	NA	**4,646**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	5	NA	NA	NA	NA	NA	**33**	NA	NA	NA	NA	NA	**18,775**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	10	NA	NA	NA	NA	NA	**37**	NA	NA	NA	NA	NA	**11,872**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	15	NA	NA	NA	NA	NA	**14**	NA	NA	NA	NA	NA	**95**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	20	NA	NA	NA	NA	NA	**10**	NA	NA	NA	NA	NA	**27**	NA	NA	NA	NA	NA	NA	NA	NA
EB3	6/21/07	2	NA	NA	NA	NA	NA	**22**	NA	NA	NA	NA	NA	**11,080**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	5	NA	NA	NA	NA	NA	**20**	NA	NA	NA	NA	NA	**9,389**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	10	NA	NA	NA	NA	NA	**26**	NA	NA	NA	NA	NA	**14,152**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	15	NA	NA	NA	NA	NA	**11**	NA	NA	NA	NA	NA	**26**	NA	NA	NA	NA	NA	NA	NA	NA
	5/23/07	20	NA	NA	NA	NA	NA	**8**	NA	NA	NA	NA	NA	**12**	NA	NA	NA	NA	NA	NA	NA	NA
EB4	6/21/07	2	NA	NA	NA	NA	NA	**9**	NA	NA	NA	NA	NA	**167**	NA	NA	NA	NA	NA	NA	NA	**6.45**
	6/21/07	5	NA	NA	NA	NA	NA	**35**	NA	NA	NA	NA	NA	**19,304**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	10	NA	NA	NA	NA	NA	**11**	NA	NA	NA	NA	NA	**17**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	15	NA	NA	NA	NA	NA	**12**	NA	NA	NA	NA	NA	**14**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	20	NA	NA	NA	NA	NA	**10**	NA	NA	NA	NA	NA	**14**	NA	NA	NA	NA	NA	NA	NA	NA
EB5	6/21/07	2	NA	NA	NA	NA	NA	**11**	NA	NA	NA	NA	NA	**626**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	5	NA	NA	NA	NA	NA	**26**	NA	NA	NA	NA	NA	**697**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	10	NA	NA	NA	NA	NA	**18**	NA	NA	NA	NA	NA	**8,368**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	15	NA	NA	NA	NA	NA	**44**	NA	NA	NA	NA	NA	**17,650**	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	20	NA	NA	NA	NA	NA	**11**	NA	NA	NA	NA	NA	**37**	NA	NA	NA	NA	NA	NA	NA	NA
EB6 (MW-1)	6/21/07	5	< 2.0	**4**	**69**	< 1.0	< 0.50	**19**	**10**	**46**	< 1.0	< 0.10	< 1.0	**7,904**	< 2.0	< 1.0	< 2.0	**23**	**64**	NA	NA	NA
	6/21/07	10	< 2.0	**6**	**75**	< 1.0	< 0.50	**38**	**12**	**20**	**9**	< 0.10	< 1.0	**14,172**	< 2.0	< 1.0	< 2.0	**28**	**73**	< 0.01	NA	NA
	6/21/07	15	< 2.0	**3**	**111**	< 1.0	< 0.50	**16**	**8**	**21**	**2**	< 0.10	< 1.0	**4,080**	< 2.0	< 1.0	< 2.0	**24**	**52**	NA	NA	NA
	6/21/07	20	< 2.0	**4**	**107**	< 1.0	< 0.50	**13**	**7**	**17**	**5**	< 0.10	< 1.0	**21**	< 2.0	< 1.0	< 2.0	**31**	**53**	NA	NA	NA
	6/21/07	25	< 2.0	**3**	**148**	< 1.0	< 0.50	**16**	**8**	**20**	**2**	< 0.10	< 1.0	**20**	< 2.0	< 1.0	< 2.0	**29**	**39**	NA	NA	NA
	6/21/07	30	< 2.0	**4**	**123**	< 1.0	< 0.50	**14**	**8**	**21**	**2**	< 0.10	< 1.0	**13**	< 2.0	< 1.0	< 2.0	**26**	**37**	NA	NA	NA

Notes

Sb	Antimony	Cr	Chromium	Mo	Molybdenum	V	Vanadium
As	Arsenic	Co	Cobalt	Ni	Nickel	Zn	Zinc
Ba	Barium	Cu	Copper	Se	Selenium	Cr6+	Hexavalent Chromium
Be	Beryllium	Pb	Lead	Ag	Silver	Cn	Cyanide
Cd	Cadmium	Hg	Mercury	Th	Thallium		

NA Not Analyzed
<## Not detected above the indicated reporting limit

TA[illegible] 5-1.

Summary Of Metals In Soil (mg/kg)

Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Sample ID	Date Sampled	Depth (Ft.)	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Th	V	Zn	Cr^{6+}	Cn	pH
EB7	6/21/07	2	NA	NA	NA	NA	NA	16	NA	NA	NA	NA	NA	44	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	5	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	7	NA	NA	NA	NA	NA	NA	NA	NA
	6/21/07	10	NA	NA	NA	NA	NA	52	NA	NA	NA	NA	NA	7	NA	NA	NA	NA	NA	52.63	NA	NA
	6/21/07	15	NA	NA	NA	NA	NA	720	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	526.31	NA	NA
	6/21/07	20	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	15	NA	NA	NA	NA	NA	NA	NA	NA
EB8	6/21/07	2	NA	NA	NA	NA	NA	506	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	12.15	NA	NA
	6/21/07	5	NA	NA	NA	NA	NA	2,260	NA	NA	NA	NA	NA	249	NA	NA	NA	NA	NA	210.52	NA	NA
	6/21/07	10	NA	NA	NA	NA	NA	1,938	NA	NA	NA	NA	NA	461	NA	NA	NA	NA	NA	184.21	NA	NA
	6/21/07	15	NA	NA	NA	NA	NA	1,780	NA	NA	NA	NA	NA	18	NA	NA	NA	NA	NA	828.94	NA	NA
	6/21/07	20	NA	NA	NA	NA	NA	670	NA	NA	NA	NA	NA	15	NA	NA	NA	NA	NA	337.71	NA	NA
EB9	6/21/07	2	NA	NA	NA	NA	NA	8,537	NA	NA	NA	NA	NA	29	NA	NA	NA	NA	NA	179.82	NA	NA
	6/21/07	5	NA	NA	NA	NA	NA	3,788	NA	NA	NA	NA	NA	1,558	NA	NA	NA	NA	NA	228.07	NA	NA
	6/21/07	10	NA	NA	NA	NA	NA	5,680	NA	NA	NA	NA	NA	88	NA	NA	NA	NA	NA	105.26	NA	NA
	6/21/07	15	NA	NA	NA	NA	NA	839	NA	NA	NA	NA	NA	30	NA	NA	NA	NA	NA	501	NA	NA
	6/21/07	20	NA	NA	NA	NA	NA	1,479	NA	NA	NA	NA	NA	15	NA	NA	NA	NA	NA	587.71	NA	NA
EB10 (MW-2)	6/21/07	5	< 2.0	8	104	< 1.0	< 0.50	2,122	6	47	2	< 0.10	< 1.0	244	< 2.0	< 1.0	< 2.0	31	31	289.47	NA	NA
	6/21/07	10	< 2.0	20	91	< 1.0	< 0.50	6,260	6	127	< 1.0	< 0.10	< 1.0	10	< 2.0	< 1.0	< 2.0	21	44	289.47	NA	NA
	6/21/07	15	< 2.0	6	111	< 1.0	< 0.50	670	6	20	4	< 0.10	< 1.0	16	< 2.0	< 1.0	< 2.0	18	38	500	NA	NA
	6/21/07	20	< 2.0	6	119	< 1.0	< 0.50	968	7	20	4	< 0.10	< 1.0	19	< 2.0	< 1.0	< 2.0	31	48	438.59	NA	NA
	6/21/07	25	< 2.0	5	121	< 1.0	< 0.50	810	8	19	9	< 0.10	< 1.0	22	< 2.0	< 1.0	< 2.0	32	49	324.56	NA	NA
	6/21/07	30	< 2.0	5	160	< 1.0	< 0.50	760	11	30	3	< 0.10	< 1.0	17	< 2.0	< 1.0	< 2.0	34	49	482.45	NA	NA
EB11	6/21/07	2	NA	NA	NA	NA	NA	252	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	214.91	NA	NA
	6/21/07	5	NA	NA	NA	NA	NA	282	NA	NA	NA	NA	NA	9	NA	NA	NA	NA	NA	277.19	NA	NA
	6/21/07	10	NA	NA	NA	NA	NA	1,529	NA	NA	NA	NA	NA	221	NA	NA	NA	NA	NA	973.68	NA	NA
	6/21/07	15	NA	NA	NA	NA	NA	952	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	701.75	NA	NA
	6/21/07	20	NA	NA	NA	NA	NA	456	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	293.86	NA	NA
Vault Bottoms																						
EB12	8/2/07	15	NA	NA	NA	NA	NA	7	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA
	8/2/07	20	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA
EB13	8/2/07	2	< 2.0	7	73	< 1.0	< 0.50	1,650	10	159	33	< 0.10	< 1.0	2,369	< 2.0	< 1.0	< 2.0	2	137	17.062	NA	6.76
	8/2/07	5	< 2.0	3	39	< 1.0	< 0.50	21	2	2	102	< 0.10	< 1.0	75	< 2.0	< 1.0	< 2.0	2	17	NA	NA	6.46
EB14	8/2/07	2	< 2.0	4	107	< 1.0	< 0.50	15	6	17	3	< 0.10	< 1.0	11	< 2.0	< 1.0	< 2.0	19	33	NA	NA	8.51
	8/2/07	5	< 2.0	4	50	< 1.0	< 0.50	6	3	7	2	< 0.10	< 1.0	16	< 2.0	< 1.0	< 2.0	10	18	NA	NA	7.74

Notes

Sb	Antimony	Cr	Chromium	Mo	Molybdenum	V	Vanadium
As	Arsenic	Co	Cobalt	Ni	Nickel	Zn	Zinc
Ba	Barium	Cu	Copper	Se	Selenium	Cr6+	Hexavalent Chromium
Be	Beryllium	Pb	Lead	Ag	Silver	Cn	Cyanide
Cd	Cadmium	Hg	Mercury	Th	Thallium		

NA Not Analyzed
<## Not detected above the indicated reporting limit

TABLE 5-1.

Summary Of Metals In Soil (mg/kg)

Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Sample ID	Date Sampled	Depth (Ft.)	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Th	V	Zn	Cr^{6+}	Cn	pH
EB15	8/2/07	2	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	7	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	10	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
	8/2/07	5	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	21	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	256	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
	8/2/07	10	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	8	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	64	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
EB16	8/2/07	2	< 2.0	5	108	< 1.0	< 0.50	10	5	16	3	< 0.10	< 1.0	9	< 2.0	< 1.0	< 2.0	16	31	NA	NA	8.73
	8/2/07	5	< 2.0	2	49	< 1.0	< 0.50	4	2	8	2	< 0.10	< 1.0	7	< 2.0	< 1.0	< 2.0	7	13	1.075	NA	9.45
EB17	8/2/07	2	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	7	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	13	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
	8/2/07	5	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	13	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	16	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
	8/2/07	10	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	12	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	21	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
EB18	8/2/07	2	< 2.0	4	77	< 1.0	< 0.50	7	4	12	< 1.0	< 0.10	< 1.0	7	< 2.0	< 1.0	< 2.0	13	23	NA	NA	8.89
	8/2/07	5	< 2.0	5	91	< 1.0	< 0.50	11	5	15	4	< 0.10	< 1.0	103	< 2.0	< 1.0	< 2.0	16	30	NA	NA	8.76
EB19	8/2/07	2	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	9	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	9	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
	8/2/07	5	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	7	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	35	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
	8/2/07	10	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	8	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	18	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
EB20	8/2/07	2	< 2.0	5	65	< 1.0	< 0.50	12	3	13	< 1.0	< 0.10	< 1.0	17	< 2.0	< 1.0	< 2.0	9	21	NA	NA	8.86
	8/2/07	5	< 2.0	3	63	< 1.0	< 0.50	5	3	9	< 1.0	< 0.10	< 1.0	4	< 2.0	< 1.0	< 2.0	9	23	NA	NA	8.86
EB21	8/2/07	2	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	48	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	101	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	<0.01	NA	NA
	8/2/07	5	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	7	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	4	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
	8/2/07	10	< 2.0	< 1.0	< 1.0	< 1.0	< 0.50	8	< 1.0	< 1.0	< 1.0	< 0.10	< 1.0	10	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	NA	NA
EB22	8/2/07	2	< 2.0	4	68	< 1.0	< 0.50	7	3	12	15	< 0.10	< 1.0	51	< 2.0	< 1.0	< 2.0	10	33	NA	NA	8.52
	8/2/07	5	< 2.0	2	69	< 1.0	< 0.50	6	3	10	< 1.0	< 0.10	< 1.0	20	< 2.0	< 1.0	< 2.0	11	21	NA	NA	8.78
EB23	8/2/07	2	< 2.0	3	59	< 1.0	< 0.50	6	3	10	11	< 0.10	< 1.0	39	< 2.0	< 1.0	< 2.0	10	32	NA	NA	8.52
	8/2/07	5	< 2.0	4	89	< 1.0	< 0.50	8	4	13	< 1.0	< 0.10	< 1.0	29	< 2.0	< 1.0	< 2.0	15	27	NA	NA	8.73

Notes

Sb	Antimony	Cr	Chromium	Mo	Molybdenum	V	Vanadium
As	Arsenic	Co	Cobalt	Ni	Nickel	Zn	Zinc
Ba	Barium	Cu	Copper	Se	Selenium	Cr6+	Hexavalent Chromium
Be	Beryllium	Pb	Lead	Ag	Silver	Cn	Cyanide
Cd	Cadmium	Hg	Mercury	Th	Thallium		

NA Not Analyzed
<## Not detected above the indicated reporting limit

TABLE 5-2:
Summary Of Metals In Concrete (mg/kg)
Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Sample ID	Date Sampled	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Th	V	Zn
Building Interior																		
CC1	6/28/07	< 2.0	5	157	< 1.0	< 0.50	145	15	25	17	< 0.10	< 1.0	983	< 2.0	< 1.0	< 2.0	4	76
CC2	6/14/07	< 2.0	< 1.0	69	< 1.0	< 0.50	31	4	117	9	< 0.10	< 1.0	1,789	< 2.0	< 1.0	< 2.0	13	28
CC2*	6/14/07												75.1					
CC3	6/28/07	< 2.0	< 1.0	64	< 1.0	< 0.50	58	4	45	17	< 0.10	< 1.0	3,419	< 2.0	< 1.0	< 2.0	6	52
CC3*	6/28/07												221.6					
CC4	6/28/07	< 2.0	6	88	< 1.0	< 0.50	963	9	14	< 1.0	< 0.10	< 1.0	423	< 2.0	< 1.0	< 2.0	14	48
CC5	6/14/07	< 2.0	< 1.0	107	< 1.0	< 0.50	292	6	40	309	< 0.10	< 1.0	563	< 2.0	< 1.0	< 2.0	8	223
CC6	6/14/07	< 2.0	19	45	< 1.0	< 0.50	5,561	3	227	2	< 0.10	< 1.0	203	< 2.0	< 1.0	< 2.0	9	30
CC6*	6/14/07						589.3											
CC7	6/28/07	< 2.0	18	66	< 1.0	< 0.50	2,911	26	184	1	< 0.10	< 1.0	527	< 2.0	< 1.0	< 2.0	12	42
CC7*	6/28/07						361.4											
CC18	6/28/07	< 2.0	7	142	< 1.0	< 0.50	106	21	24	6	< 0.10	< 1.0	147	< 2.0	< 1.0	< 2.0	10	67
CC19	6/28/07	< 2.0	5	62	< 1.0	< 0.50	12	2	33	11	< 0.10	< 1.0	44	< 2.0	< 1.0	< 2.0	11	24
CC20	6/28/07	< 2.0	4	84	< 1.0	< 0.50	608	7	255	15	< 0.10	< 1.0	987	< 2.0	< 1.0	< 2.0	14	193
CC21	6/28/07	< 2.0	4	98	< 1.0	< 0.50	16	3	20	3	< 0.10	< 1.0	16	< 2.0	< 1.0	< 2.0	14	36
Vault Bottoms																		
CC8	6/14/07	< 2.0	7	49	< 1.0	< 0.50	198	3	27	15	< 0.10	< 1.0	3,435	< 2.0	< 1.0	< 2.0	13	25
CC8*	6/14/07		21.3										21.3					

Notes

Sb	Antimony	Cr	Chromium	Mo	Molybdenum	V	Vanadium
As	Arsenic	Co	Cobalt	Ni	Nickel	Zn	Zinc
Ba	Barium	Cu	Copper	Se	Selenium	Cr6+	Hexavalent Chromium
Be	Beryllium	Pb	Lead	Ag	Silver	Cn	Cyanide
Cd	Cadmium	Hg	Mercury	Th	Thallium		

NA Not Analyzed
<## Not detected above the indicated reporting limit
* STLC analysis - results in milligram per liter (mg/l)

Summary Of Metals In Concrete (mg/kg)

Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Sample ID	Date Sampled	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Th	V	Zn
CC9	6/28/07	< 2.0	7	74	< 1.0	< 0.50	45	4	15	7	< 0.10	< 1.0	227	< 2.0	< 1.0	< 2.0	15	22
CC10	6/28/07	< 2.0	5	37	< 1.0	< 0.50	55	8	3	5	< 0.10	< 1.0	5,822	< 2.0	< 1.0	< 2.0	< 1.0	51
CC10*	6/28/07												624.4					
CC11	6/28/07	< 2.0	150	49	< 1.0	< 0.50	6,402	6	674	46	< 0.10	< 1.0	5,828	< 2.0	< 1.0	< 2.0	< 1.0	129
CC11*	6/28/07		3.2				88.5						948.8					
CC12	6/28/07	< 2.0	10	89	< 1.0	< 0.50	140	2	20	6	< 0.10	< 1.0	106	< 2.0	< 1.0	< 2.0	17	18
CC13	6/28/07	< 2.0	8	91	< 1.0	< 0.50	120	3	37	8	< 0.10	< 1.0	372	< 2.0	< 1.0	< 2.0	19	33
CC14	6/28/07	< 2.0	< 1.0	36	< 1.0	< 0.50	49	7	2	5	< 0.10	< 1.0	5,893	< 2.0	< 1.0	< 2.0	< 1.0	43
CC14*	6/28/07												447.6					
CC15	6/28/07	< 2.0	< 1.0	80	< 1.0	< 0.50	59	8	4	6	< 0.10	< 1.0	5,852	< 2.0	< 1.0	< 2.0	< 1.0	52
CC15*	6/28/07												301.9					
CC16	6/28/07	< 2.0	< 1.0	44	< 1.0	< 0.50	85	12	5	10	< 0.10	< 1.0	5,694	< 2.0	< 1.0	< 2.0	< 1.0	81
CC16*	6/28/07												494.3					
CC17	6/28/07	< 2.0	4	84	< 1.0	< 0.50	47	20	39	30	< 0.10	< 1.0	163	< 2.0	< 1.0	< 2.0	12	26

Notes

Sb	Antimony	Cr	Chromium	Mo	Molybdenum	V	Vanadium
As	Arsenic	Co	Cobalt	Ni	Nickel	Zn	Zinc
Ba	Barium	Cu	Copper	Se	Selenium	Cr6+	Hexavalent Chromium
Be	Beryllium	Pb	Lead	Ag	Silver	Cn	Cyanide
Cd	Cadmium	Hg	Mercury	Th	Thallium		

NA Not Analyzed
<## Not detected above the indicated reporting limit
* STLC analysis - results in milligram per liter (mg/l)

Table 5-3:
Summary of VOCs in Soil (ug/kg)
Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Boring ID	Detection Limits	Boring I.D				
		SV1-15'	EB12-15'	EB13-10'	EB14-10'	EB16-10'
Acetone	5	ND	ND	ND	ND	ND
Benzene	1	**11**	ND	ND	ND	ND
Bromodichloromethane	2	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND
Bromomethane	2	ND	ND	ND	ND	ND
2-Butanone (MEK)	2	ND	ND	ND	ND	ND
Carbon Disulfide	2	ND	ND	ND	ND	ND
Carbon Tetrachloride	2	ND	ND	ND	ND	ND
Chlorobenzene	2	ND	ND	ND	ND	ND
Chloroethane	2	ND	ND	ND	ND	ND
Chloroform	2	**8**	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND
Cyclohexane	2	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	2	ND	ND	ND	ND	ND
1,2-Dibromoethane	2	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	2	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND
1,1-Dichloroethane	2	ND	ND	ND	ND	ND
1,2-Dichloroethane	2	ND	ND	ND	ND	ND
1,1-Dichloroethene	2	ND	**3**	ND	ND	ND
cis-1,2-Dichloroethene	2	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	2	ND	ND	ND	ND	ND

Notes:
ug/kg - micrograms per kilogram, or parts per billion by weight
ND - not detected above indicated detection limit

Table 5-3:

Summary of VOCs in Soil (ug/kg)
Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Boring ID	Detection Limits	Boring I.D				
		SV1-15'	EB12-15'	EB13-10'	EB14-10'	EB16-10'
1,2-Dichloropropane	2	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	2	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	2	ND	ND	ND	ND	ND
Ethylbenzene	1	**2**	ND	ND	ND	ND
2-Hexanone	2	ND	ND	ND	ND	ND
Methyl Acetate	2	ND	ND	ND	ND	ND
Methylcyclohexane	2	ND	ND	ND	ND	ND
Methylene Chloride	2	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	2	ND	ND	ND	ND	ND
Styrene	2	ND	ND	ND	ND	ND
Isopropylbenzene	2	ND	ND	ND	ND	ND
4-Isopropyltoluene	2	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	2	ND	ND	ND	ND	ND
Tetrachloroethene	2	**8**	**35**	**18**	**20**	**14**
Toluene	1	**10**	ND	ND	ND	ND
1,2,4-Trichlorobenzene	2	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2	ND	ND	ND	ND	ND
Trichloroethene	2	ND	ND	ND	ND	ND
Trichlorofluoromethane	2	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	2	ND	ND	ND	ND	ND
Vinyl Chloride	5	ND	ND	ND	ND	ND
Total Xylenes	1	**7**	ND	ND	ND	ND

Notes:
ug/kg - micrograms per kilogram, or parts per billion by weight
ND - not detected above indicated detection limit

Table 5-3:
Summary of VOCs in Soil (ug/kg)
Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Boring ID	Detection Limits	Boring I.D			
		EB18-10'	EB20-10'	EB22-10'	EB23-10'
Acetone	5	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND
Bromodichloromethane	2	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND
Bromomethane	2	ND	ND	ND	ND
2-Butanone (MEK)	2	ND	ND	ND	ND
Carbon Disulfide	2	ND	ND	ND	ND
Carbon Tetrachloride	2	ND	ND	ND	ND
Chlorobenzene	2	ND	ND	ND	ND
Chloroethane	2	ND	ND	ND	ND
Chloroform	2	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND
Cyclohexane	2	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	2	ND	ND	ND	ND
1,2-Dibromoethane	2	ND	ND	ND	ND
1,2-Dichlorobenzene	2	ND	ND	ND	ND
1,3-Dichlorobenzene	2	ND	ND	ND	ND
1,4-Dichlorobenzene	2	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND
1,1-Dichloroethane	2	ND	ND	ND	ND
1,2-Dichloroethane	2	ND	ND	ND	ND
1,1-Dichloroethene	2	ND	ND	ND	ND
Ethylbenzene	1	ND	ND	ND	ND

Notes:
ug/kg - micrograms per kilogram, or parts per billion by weight
ND - not detected above indicated detection limit

Table 5-3:

Summary of VOCs in Soil (ug/kg)
Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Boring ID	Detection Limits	Boring I.D			
		EB18-10'	EB20-10'	EB22-10'	EB23-10'
cis-1,2-Dichloroethene	2	ND	ND	ND	ND
trans-1,2-Dichloroethene	2	ND	ND	ND	ND
1,2-Dichloropropane	2	ND	ND	ND	ND
trans-1,3-Dichloropropene	2	ND	ND	ND	ND
cis-1,3-Dichloropropene	2	ND	ND	ND	ND
2-Hexanone	2	ND	ND	ND	ND
Methyl Acetate	2	ND	ND	ND	ND
Methylcyclohexane	2	ND	ND	ND	ND
Methylene Chloride	2	ND	ND	ND	ND
4-Methyl-2-Pentanone	2	ND	ND	ND	ND
Styrene	2	ND	ND	ND	ND
Isopropylbenzene	2	ND	ND	ND	ND
4-Isopropyltoluene	2	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	2	ND	ND	ND	ND
Tetrachloroethene	2	**3**	**5**	**15**	**18**
Toluene	1	ND	ND	ND	ND
1,2,4-Trichlorobenzene	2	ND	ND	ND	ND
1,1,1-Trichloroethane	2	ND	ND	ND	ND
1,1,2-Trichloroethane	2	ND	ND	ND	ND
Trichloroethene	2	ND	ND	ND	ND
Trichlorofluoromethane	2	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	2	ND	ND	ND	ND
Vinyl Chloride	5	ND	ND	ND	ND
Total Xylenes	1	ND	ND	ND	ND

Notes:
ug/kg - micrograms per kilogram, or parts per billion by weight
ND - not detected above indicated detection limit

Table 5
Summary of Soil Gas Data (ug/l)
Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Boring ID	Detection Limits	SV1-5	SV1-10	SV1-15	SV2-5	SV2-10	SV2-15	SV3-10	SV4-5	SV4-10	SV4-15	SV101-5	SV101-10	SV101-10
Benzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.02	**2.3**	**2.2**	**5.3**	**3.5**	**1.7**	**3.3**	**1.9**	**1.2**	**1.2**	**2.0**	**2.2**	**2.1**	ND
Chloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND - not detected above indicated detection limits

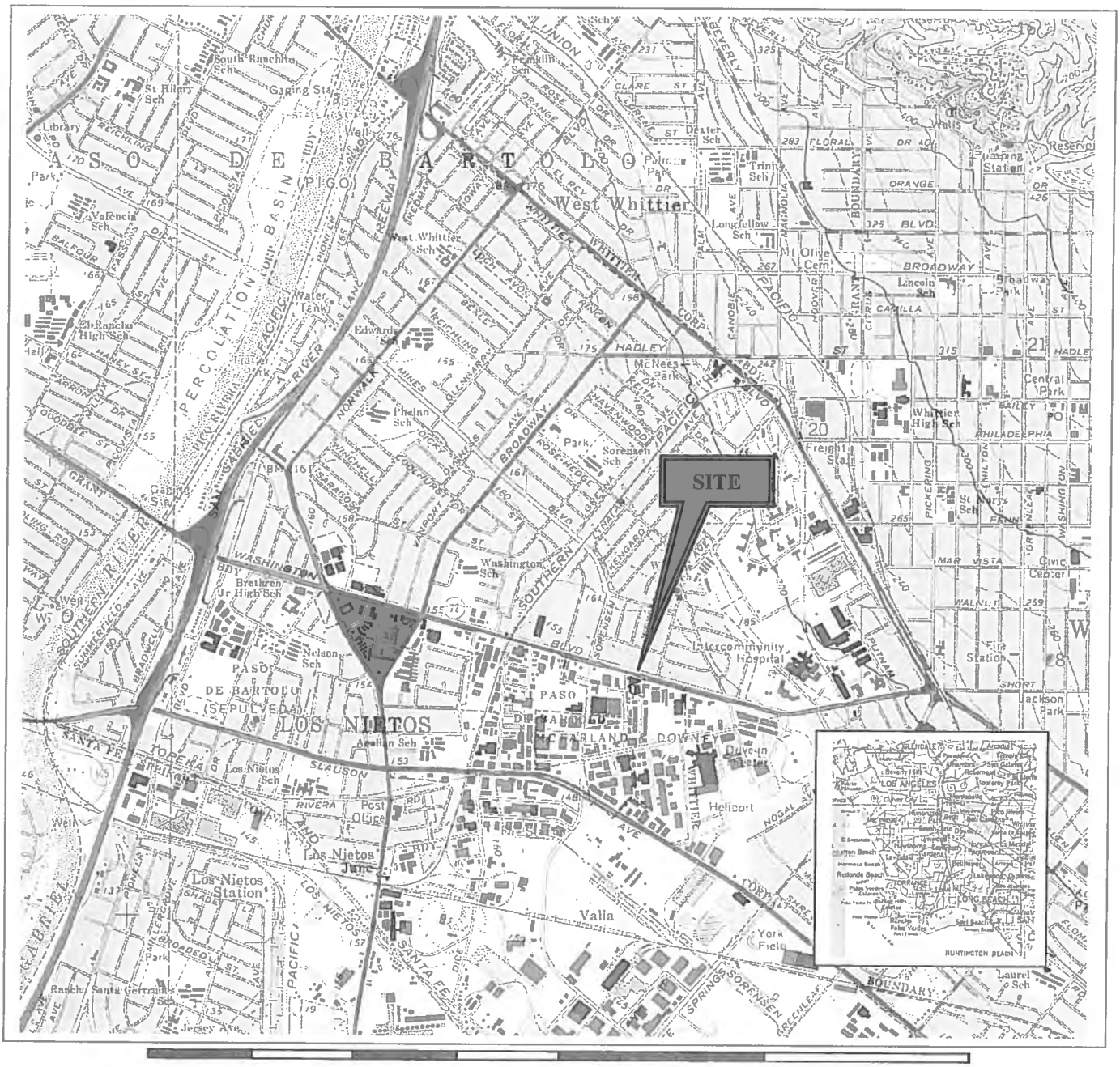
Table 5-4:
Summary of Soil Gas Data (ug/l)
Former Foss Plating Facility -
8140 Secura Way, Santa Fe Springs, California

Boring ID	Detection Limits	SV1-5	SV1-10	SV1-15	SV2-5	SV3-10	SV3-15	SV3-10	SV4-16	SV5-8	SV5-16	SV101-5	SV101-10	SV101-15
Freon 113	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.02	**4.2**	**4**	**3.8**	**19.5**	**8.5**	**13.8**	**22.6**	**8.4**	**6.6**	**3.1**	**6.2**	**4.9**	**0.5**
Toluene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tert-butylether	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropylether	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-amylmethylether	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylalcohol	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ND - not detected above indicated detection limits

FIGURES

Site Location Map - Figure 1
Physical Feature Reference Map – Figure 2
Soil Boring Location Map – Figure 3
Concrete Core Sample Location Map – Figure 4
Nickel Iso-Concentration Map at 2-feet– Figure 5
Nickel Iso-Concentration Map at 5-feet – Figure 6
Nickel Iso-Concentration Map at 10-feet – Figure 7
Chromium Iso-Concentration Map at 2-feet – Figure 8
Chromium Iso-Concentration Map at 5-feet – Figure 9
Chromium Iso-Concentration Map at 10-feet – Figure 10



Source: USGS, 1966
California – Whittier Quadrangle
7.5-minute (topographic) series
Scale: 1" = 2,000 ft (1:24,000)

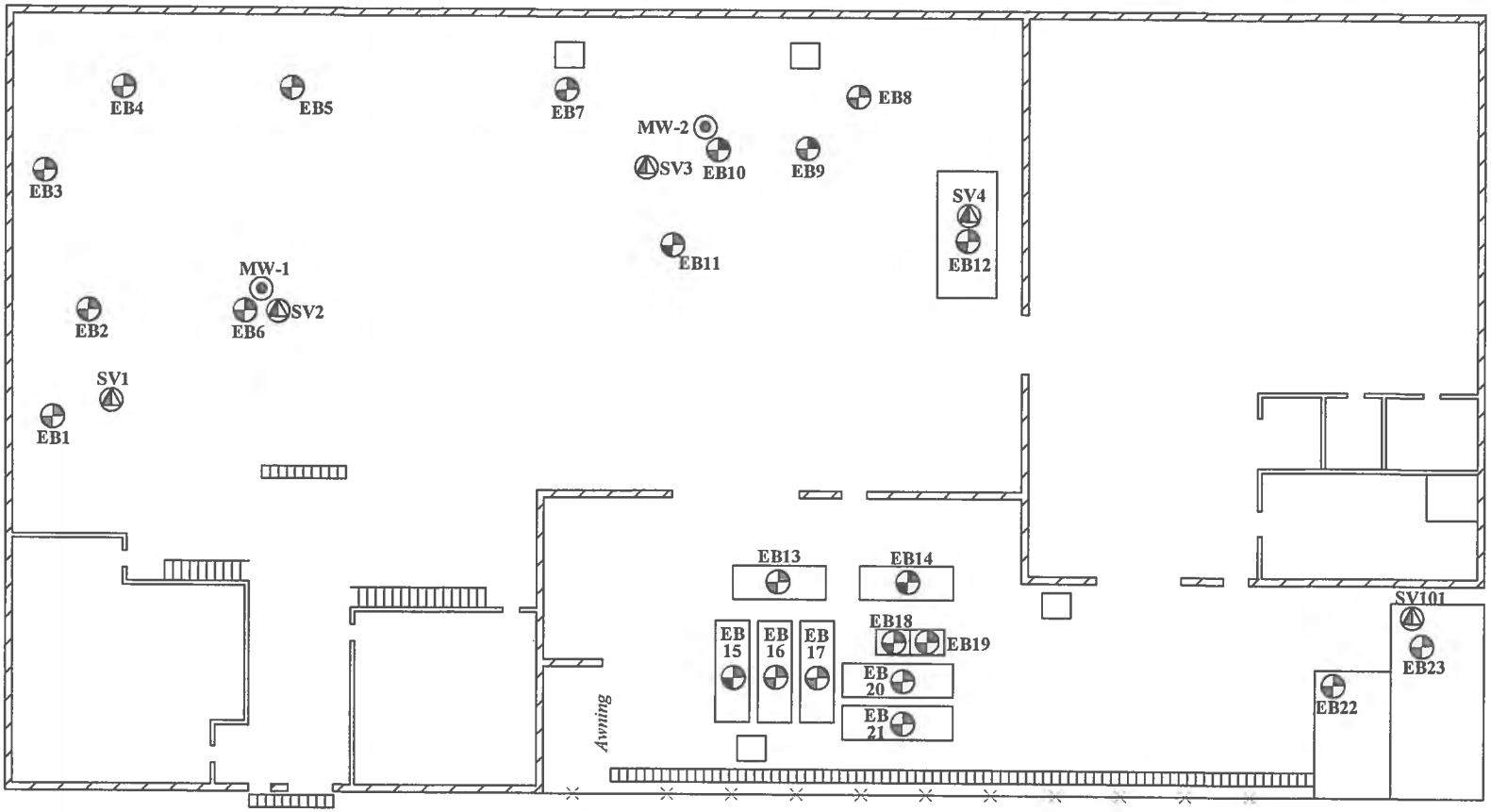
N

ASTECH
Environmental Services, Inc.

SITE LOCATION MAP

Former Foss Plating Facility
8140 Secura Way
Santa Fe Springs, California

Figure 1



LEGEND

- Multi-Depth (Nested) Soil Vapor Probe
- Soil Boring Location
- Proposed Monitoring Well Location

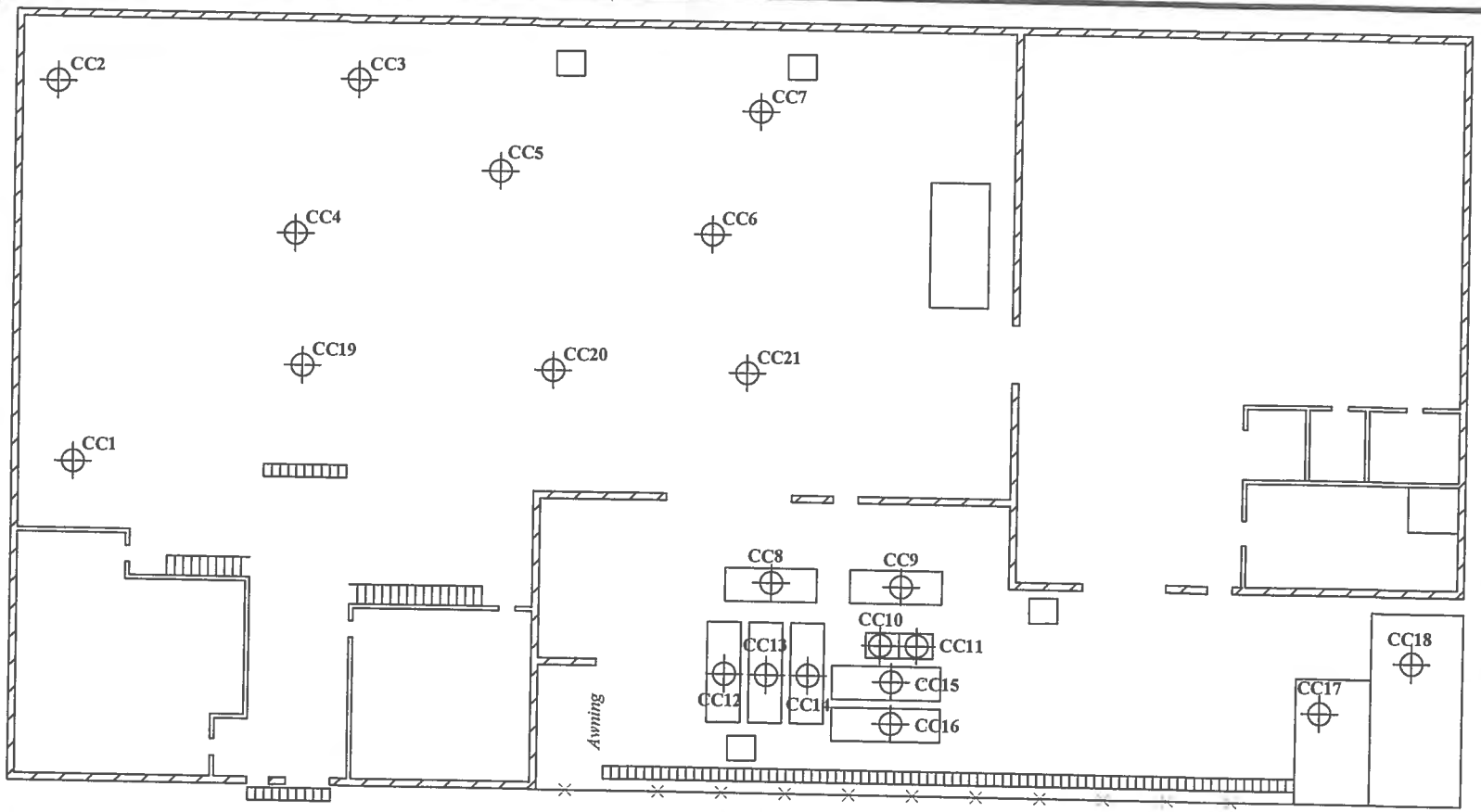
SCALE

15' 0 15' 30'

ASTECH

SOIL BORING LOCATION MAP -
Former Foss Plating Facility
8140 Secura Way
Santa Fe Springs, California

FIGURE 3



LEGEND

- Multi-Depth (Nested) Soil Vapor Probe
- Concrete Core Sample
- Soil Boring Location
- Proposed Monitoring Well Location

SCALE

15' 0 15' 30'

ASTECH

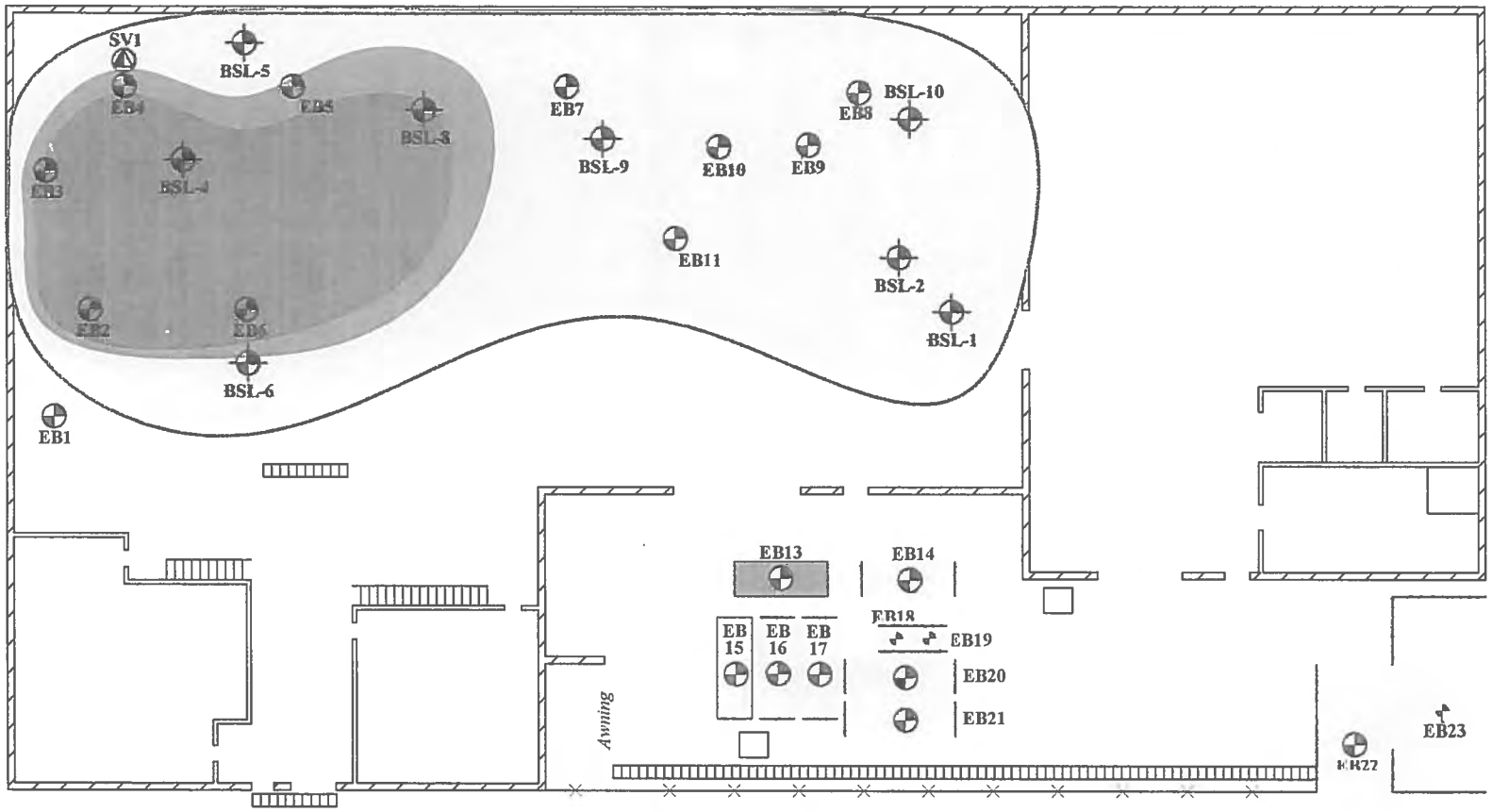
CONCRETE CORE SAMPLE LOCATION MAP -

Former Foss Plating Facility

8140 Secura Way

Santa Fe Springs, California

FIGURE 4



LEGEND

BSL-1 — Approximate Location Of Previous Boring

Current Soil Boring Location

Approximate Iso-Concentration Contour of Nickel at 10 ppm (Yellow), 100 ppm (Green), & 1,000 ppm (Red)

SCALE

15' 0 15' 30'

ASTECH

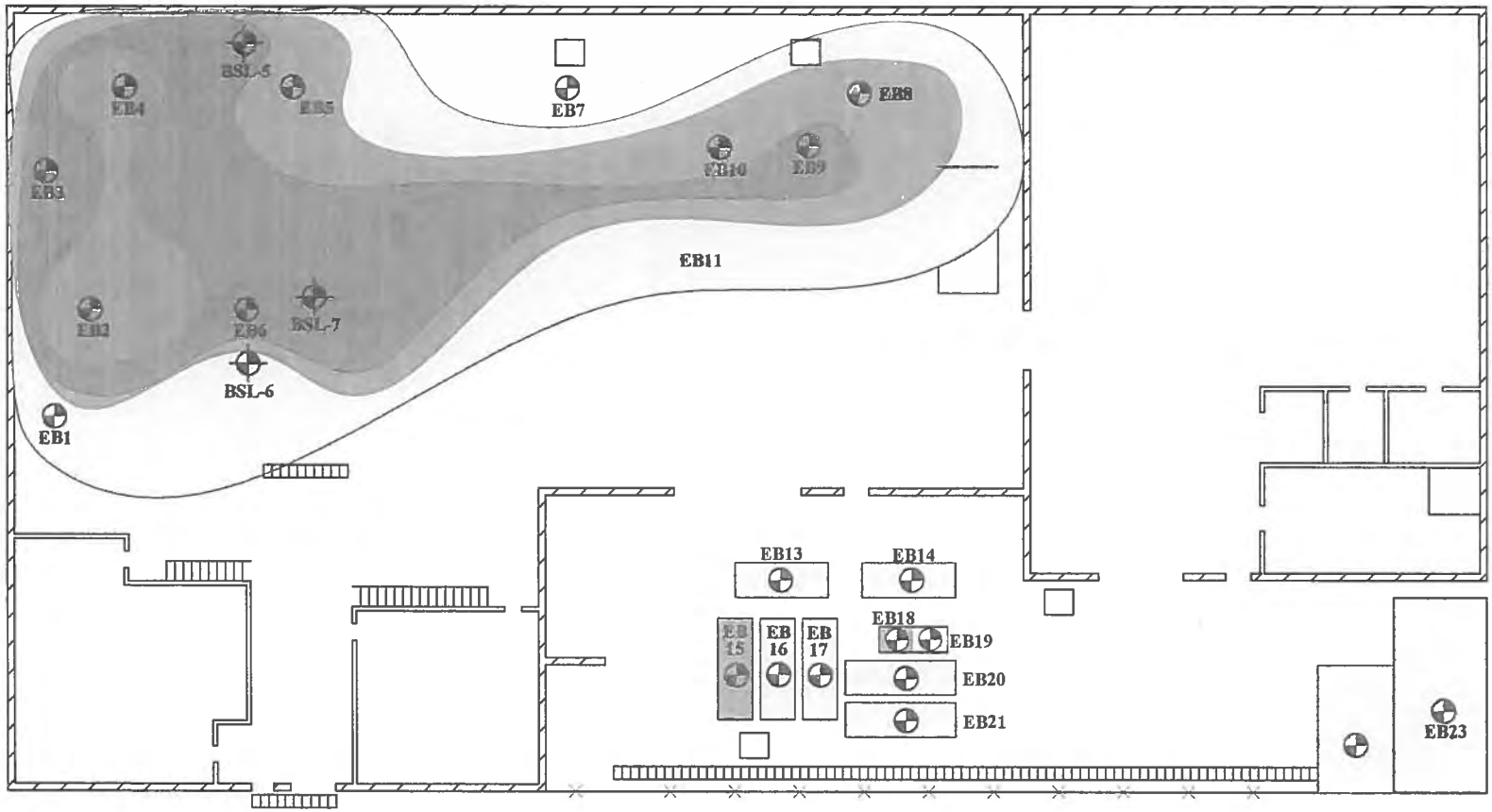
NICKEL CONTOUR MAP AT 2-FEET -

Former Foss Plating Facility

8140 Secura Way

Santa Fe Springs, California

FIGURE 5



LEGEND

BSL-1 Approximate Location Of Previous Boring

Current Soil Boring Location

Approximate Iso-Concentration Contour of Nickel at 10 ppm (Yellow), 100 ppm (Green), & 1,000 ppm (Red), 10,000 (Blue)

SECURA WAY

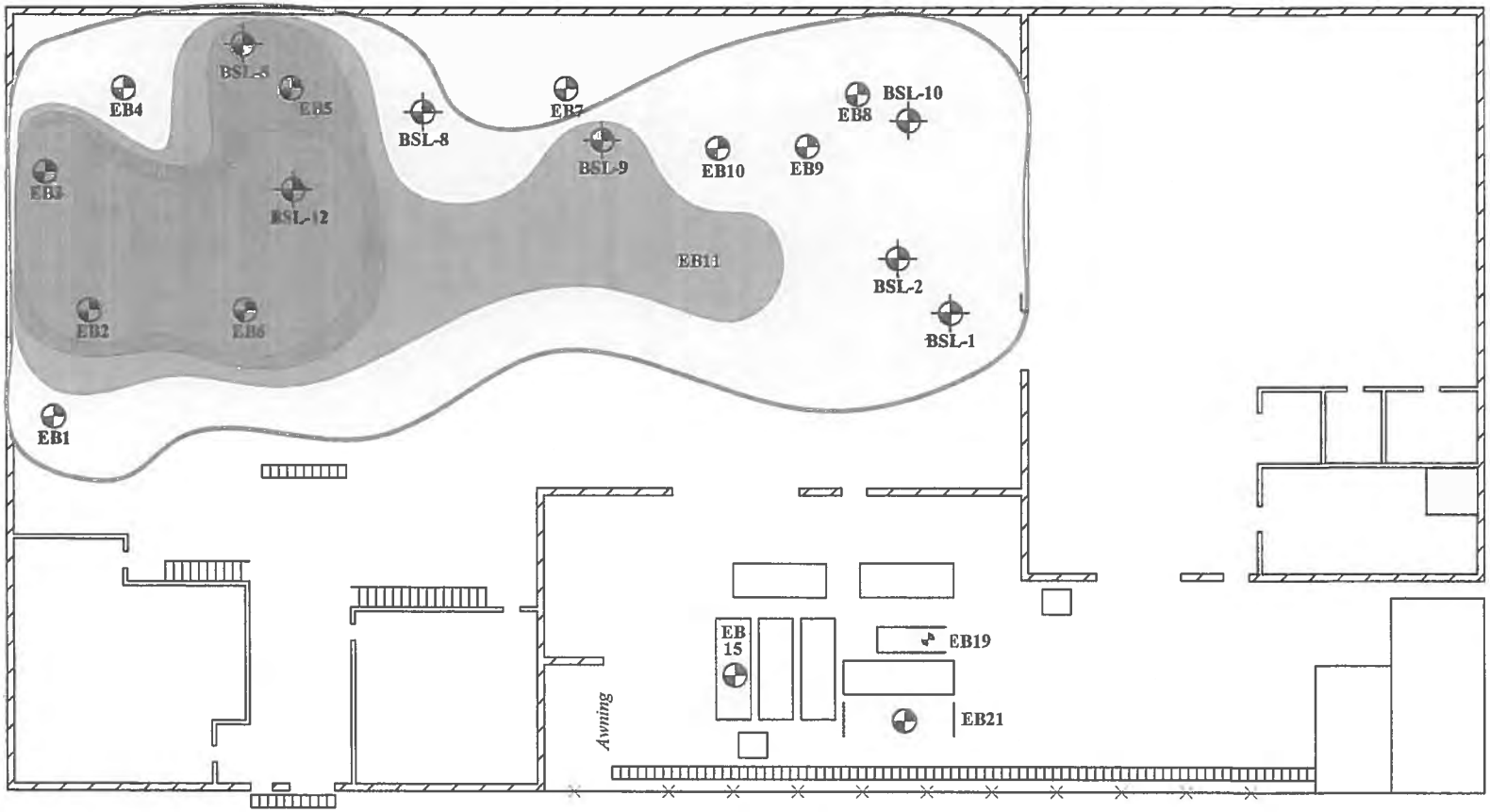
SCALE

15' 0 15' 30'

ASTECH

NICKEL CONTOUR MAP AT 5-FEET -
Former Foss Plating Facility
8140 Secura Way
Santa Fe Springs, California

FIGURE 6



LEGEND

BSL-1 — Approximate Location Of Previous Boring

Current Soil Boring Location

Approximate Iso-Concentration Contour of Nickel at 10 ppm (Yellow), 100 ppm (Green), & 1,000 ppm (Red), & 10,000 ppm (Blue)

Approximate Iso-Concentration of Nickel at 10000 ppm

SCALE

15' 0 15' 30'

ASTECH

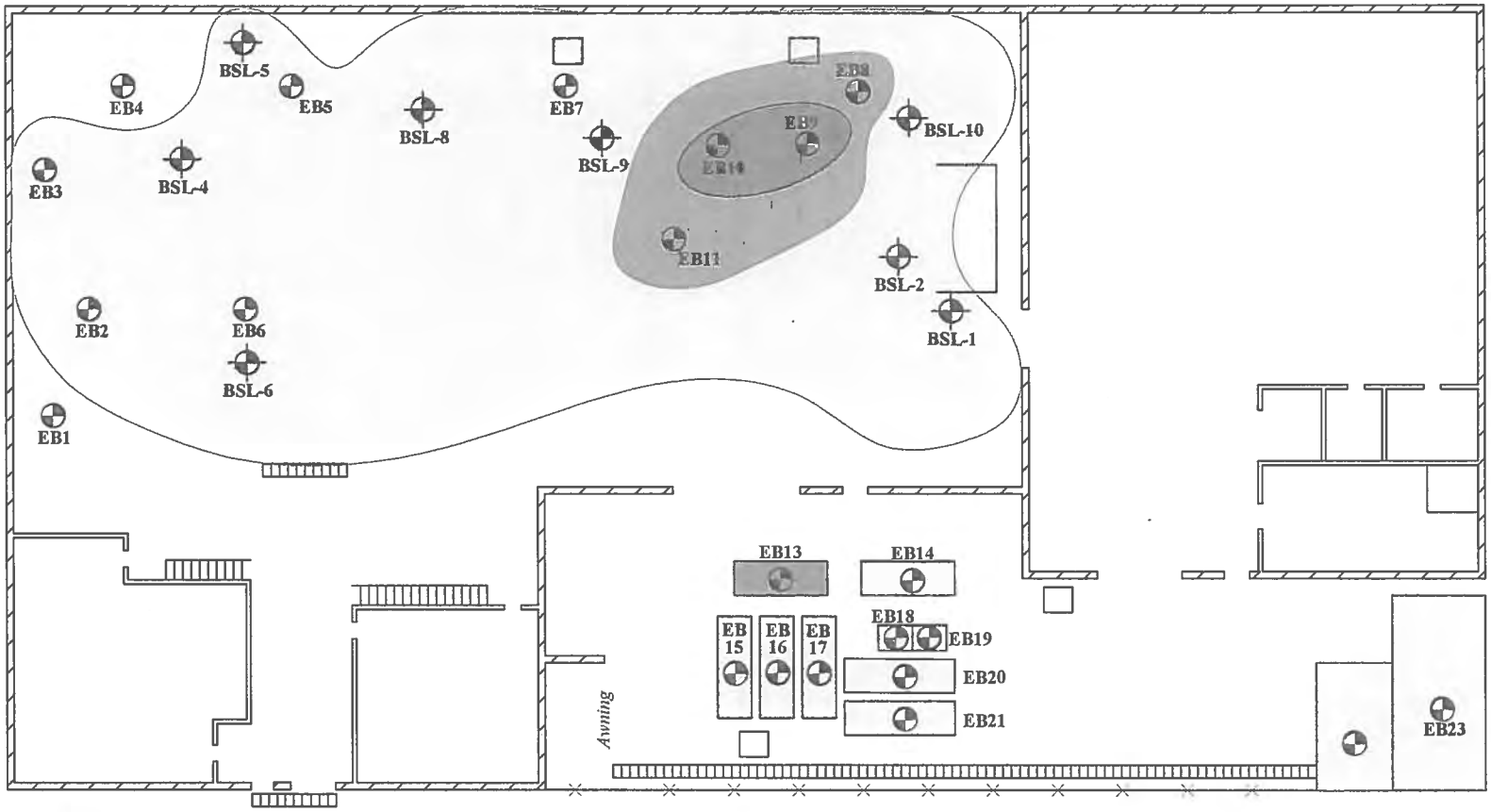
NICKEL CONTOUR MAP AT 10-FEET -

Former Foss Plating Facility

8140 Secura Way

Santa Fe Springs, California

FIGURE 7



LEGEND

BSL-1 Approximate Location Of Previous Boring

Current Soil Boring Location

Approximate Iso-Concentration Contour of Chromium at 10 ppm (Yellow), 100 ppm (Green), & 1,000 ppm (Red)

SCALE

15' 0 15' 30'

ASTECH

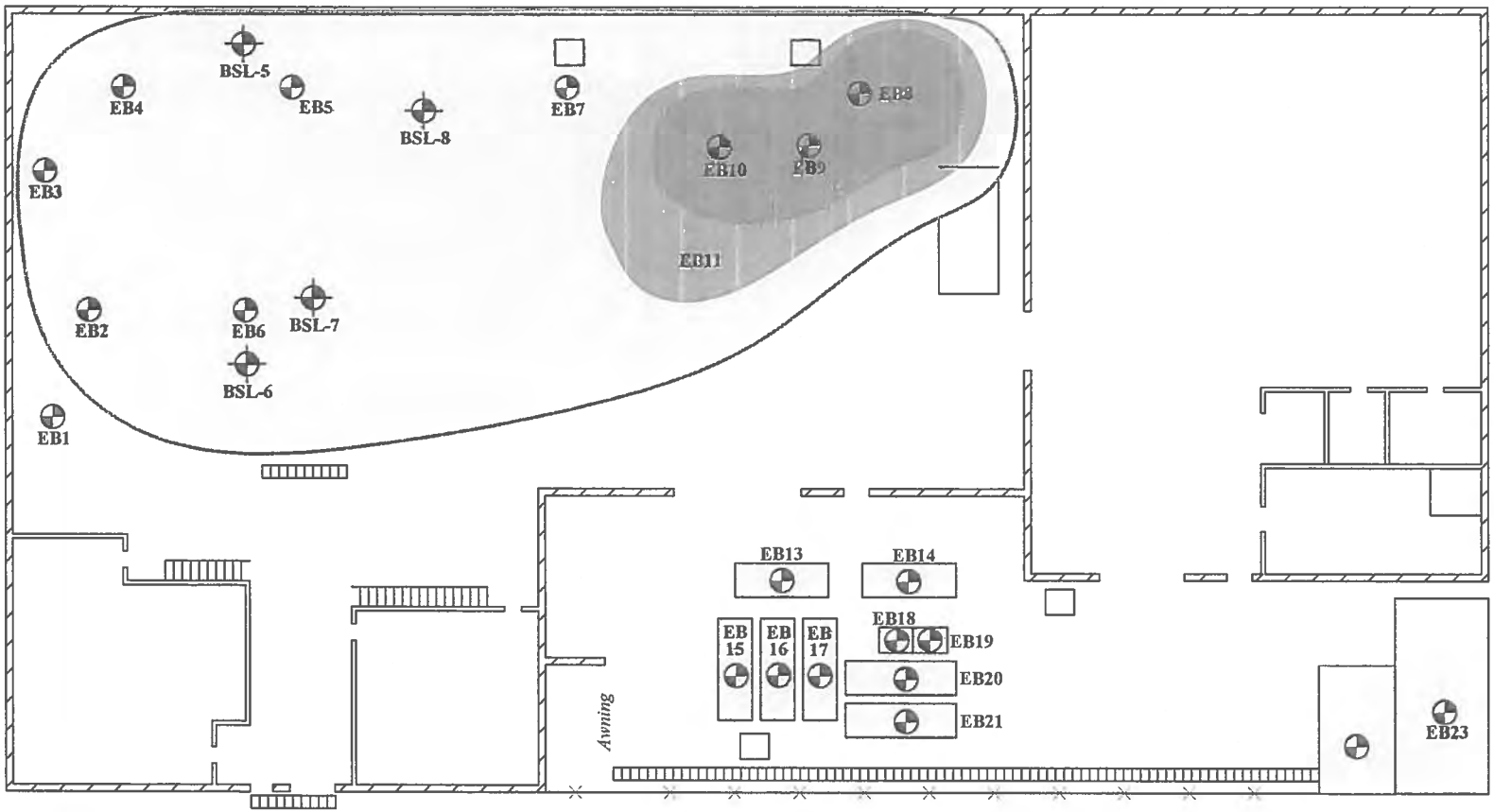
CHROMIUM CONTOUR MAP AT 2-FEET -

Former Foss Plating Facility

8140 Secura Way

Santa Fe Springs, California

FIGURE 8



LEGEND

BSL-1 Approximate Location Of Previous Boring

Current Soil Boring Location

Approximate Iso-Concentration Contour of Chromium at 10 ppm (Yellow), 100 ppm (Green), & 1,000 ppm (Red)

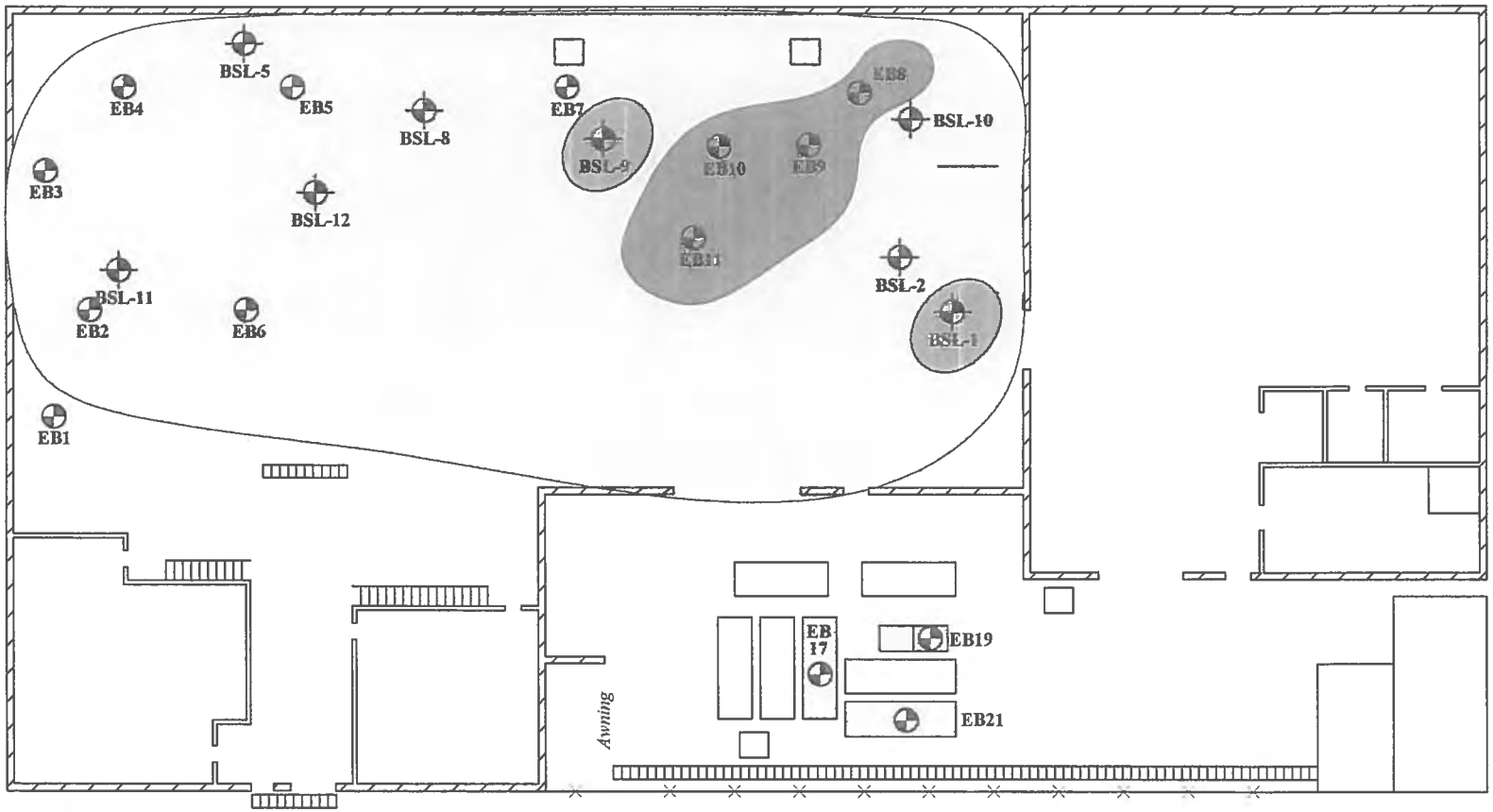
SCALE

15' 0 15' 30'

ASTECH

CHROMIUM CONTOUR MAP AT 5-FEET -
Former Foss Plating Facility
8140 Secura Way
Santa Fe Springs, California

FIGURE 9



LEGEND

BSL-1 Approximate Location Of Previous Boring

Current Soil Boring Location

Approximate Iso-Concentration Contour of Chromium at 10 ppm (Yellow), 100 ppm (Green), & 1,000 ppm (Red)

BGS-1

SECURA WAY

SCALE

15' 0 15' 30'

ASTECH

CHROMIUM CONTOUR MAP AT 10-FEET -
Former Foss Plating Facility
8140 Secura Way
Santa Fe Springs, California

FIGURE 10

APPENDIX A

BORING LOGS

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB1

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 6/21/07 - 6/21/07
CASING TYPE/DIAMETER ---
SCREEN TYPE/SLOT ---
GRAVEL PACK TYPE ---
GROUT TYPE/QUANTITY ---
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.4		24	MC			SM		5Y 4/3 Olive, moist, loose, mostly fine to very fine grained sand, some to little silt	2.0
0.1		24	MC		5	SP		5Y 5/3 Olive, moist, loose, mostly fine grained sand, little to trace silt	5.0
0.1		24	MC		10	SP		5Y 5/3 Olive, slightly moist, loose to dense, mostly fine grained sand, little very fine sand	10.0
0.3		24	MC		15	CL		5Y 4/1 Dark gray, moist, firm, mostly caly, little to trace silt, low plastic	15.0
0.1		24	MC		20	CH		5Y 3/1 Very dark gray, moist, firm, mostly clay, moderate to high plasticity	20.0
								Bottom of borehole at 20.0 feet.	

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB2

PROJECT NAME: Former Foss PLating
DATE DRILLED: 6/21/07 - 6/21/07
LOCATION: 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER: ---
DRILLING METHOD: Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT: ---
SAMPLING METHOD: Large Bore
GRAVEL PACK TYPE: ---
GROUND ELEVATION:
GROUT TYPE/QUANTITY: ---
TOP OF CASING: ---
STATIC GROUNDWATER DEPTH:
LOGGED BY: A. Schmitt
STATIC GROUND WATER ELEVATION:
REMARKS:

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.4		24	MC			SM		5Y 4/2 Olive gray, moist, loose, mostly fine to very fine grained sand, little silt	2.0
0.1		24	MC		5	SP		5Y 5/3 Olive, moist, loose, mostly fine grained sand, trace silt	5.0
0.1		24	MC		10	SP		5Y 5/3 Olive, slightly moist, loose, mostly fine grained sand, little silt	10.0
0.3		24	MC		15	CL		5Y 5/2 Olive gray, moist, firm, mostly caly, moderate plasticity	15.0
0.1		24	MC		20	CH		5Y 4/2 Olive gray, moist, firm, mostly clay, low to moderate plasticity	20.0
								Bottom of borehole at 20.0 feet.	

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB3

PROJECT NAME Former Foss PLating
DATE DRILLED 6/21/07 - 6/21/07
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER ---
DRILLING METHOD Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT ----
SAMPLING METHOD Large Bore
GRAVEL PACK TYPE ---
GROUND ELEVATION
GROUT TYPE/QUANTITY ---
TOP OF CASING ---
STATIC GROUNDWATER DEPTH
LOGGED BY A. Schmitt
STATIC GROUND WATER ELEVATION
REMARKS

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.4		24	MC			SM		5Y 3/2 Dark olive gray, moist, loose, mostly very fine grained sand, little silt	2.0
0.1		24	MC		5	SP		5Y 5/3 Olive, moist, loose, mostly fine grained sand, little to trace silt	5.0
0.1		24	MC		10	SP		5Y 5/3 Olive, slightly moist, loose, mostly fine to very fine grained sand, little silt	10.0
0.3		24	MC		15	CL		5Y 5/2 Olive gray, moist, firm, mostly clay, moderate plasticity	15.0
0.1		24	MC		20	CH		5Y 4/2 Olive gray, moist, firm, mostly clay, low to moderate plasticity	20.0

Bottom of borehole at 20.0 feet.

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB4

PROJECT NAME Former Foss PLating
DATE DRILLED 6/21/07 - 6/21/07
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER ---
DRILLING METHOD Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT ---
SAMPLING METHOD Large Bore
GRAVEL PACK TYPE ---
GROUND ELEVATION
GROUT TYPE/QUANTITY ---
TOP OF CASING ---
STATIC GROUNDWATER DEPTH
LOGGED BY A. Schmitt
STATIC GROUND WATER ELEVATION
REMARKS

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.3		24	MC			SM		5Y 4/2 Olive gray, moist, loose, mostly very fine grained sand, little silt	2.0
0.1		24	MC		5	SP		5Y 6/2 Olive gray, moist, loose, mostly fine to very fine grained sand, trace silt	5.0
0.1		24	MC		10	SP		5Y 6/4 Pale olive, slightly moist, loose, mostly very fine grained sand	10.0
0.1		24	MC		15	CL		5Y 4/1 Dark gray, moist, firm, mostly clay, low to moderate plasticity	15.0
0.1		24	MC		20	CH		5Y 4/3 Olive, moist, firm, mostly clay, moderate to high plasticity	20.0

Bottom of borehole at 20.0 feet.

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB5

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 6/21/07 - 6/21/07
CASING TYPE/DIAMETER ---
SCREEN TYPE/SLOT ---
GRAVEL PACK TYPE ---
GROUT TYPE/QUANTITY ---
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.3		24	MC			SM		5Y 4/2 Olive gray, moist, loose, mostly fine to very fine grained sand, some to little silt	2.0
0.3		24	MC		5	SP		5Y 5/3 Olive, moist, loose, mostly very fine grained sand, little silt	5.0
0.1		24	MC		10	SP		5Y 5/4 Olive, slightly moist, loose, mostly very fine grained sand, some silt, trace clay	10.0
0.3		24	MC		15	CL		5Y 4/2 Olive gray, moist, firm, mostly clay, little to trace silt, low plasticity	15.0
0.1		24	MC		20	CH		5Y 4/2 Olive gray, moist, firm, mostly clay, plastic	20.0

Bottom of borehole at 20.0 feet.

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB6 (MW-2)

PROJECT NAME: Former Foss PLating
LOCATION: 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD: Direct Push - GeoProbe 6600
SAMPLING METHOD: Large Bore
GROUND ELEVATION:
TOP OF CASING: ---
LOGGED BY: A. Schmitt
REMARKS:

DATE DRILLED: 6/21/07 - 6/21/07
CASING TYPE/DIAMETER: ---
SCREEN TYPE/SLOT: ---
GRAVEL PACK TYPE: ---
GROUT TYPE/QUANTITY: ---
STATIC GROUNDWATER DEPTH:
STATIC GROUND WATER ELEVATION:

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.3		24	MC		5	SP		5Y 5/3 Olive, moist, loose, mostly fine to very fine grained sand, little silt	5.0
0.3		24	MC		10	SP		5Y 5/2 Olive gray, slightly moist, loose, mostly very fine grained sand, little silt, trace clay	10.0
0.1		24	MC		15	CL		5Y 4/2 Olive gray, moist, firm, mostly clay, plastic	15.0
0.1		24	MC		20	CH		5Y 4/2 Olive gray, moist, firm, mostly clay, moderately plastic	20.0
0.1		24	MC		25	CL		5Y 4/2 Olive gray, moist, firm, mostly clay, little to trace silt, low to moderate plastic	25.0
0.1		24	MC		30	SC		5Y 4/2 Olive gray, moist, firm, mostly clay, some very fine grained sand	30.0

Bottom of borehole at 30.0 feet.

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB7

PROJECT NAME Former Foss PLating
DATE DRILLED 6/21/07 - 6/21/07
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER ---
DRILLING METHOD Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT ---
SAMPLING METHOD Large Bore
GRAVEL PACK TYPE ---
GROUND ELEVATION
GROUT TYPE/QUANTITY ---
TOP OF CASING ---
STATIC GROUNDWATER DEPTH
LOGGED BY A. Schmitt
STATIC GROUND WATER ELEVATION
REMARKS

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SM		5Y 4/3 Olive, moist, loose, mostly fine to very fine grained sand, some silt	2.0
0.1		24	MC		5	SP		5Y 5/3 Olive, moist, loose, mostly fine grained sand, trace silt	5.0
0.1		24	MC		10	SP		5Y 6/3 Pale olive, slightly moist, loose, mostly fine to very fine grained sand	10.0
0.1		24	MC		15	CL		5Y 4/2 Olive gray, moist, firm, mostly clay, moderate plasticity	15.0
0.1		24	MC		20	CH		5Y 4/2 Olive gray, moist, firm, mostly clay, plastic	20.0
								Bottom of borehole at 20.0 feet.	

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB8

PROJECT NAME Former Foss PLating
DATE DRILLED 6/21/07 - 6/21/07
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER ---
DRILLING METHOD Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT ---
SAMPLING METHOD Large Bore
GRAVEL PACK TYPE ---
GROUND ELEVATION
GROUT TYPE/QUANTITY ---
TOP OF CASING ---
STATIC GROUNDWATER DEPTH
LOGGED BY A. Schmitt
STATIC GROUND WATER ELEVATION
REMARKS

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SM		5Y 4/2 Olive gray, moist, loose, mostly fine grained sand, some silt	2.0
0.3		24	MC		5	SP		5Y 4/3 Olive, moist, loose, mostly fine to very fine grained sand, some to little silt	5.0
0.1		24	MC		10	SP		5Y 6/2 Light olive gray, slightly moist, loose, mostly very fine grained sand	10.0
0.1		24	MC		15	CL		5Y 3/1 Vary dark gray, moist, firm, mostly clay, moderate plasticity	15.0
0.1		24	MC		20	CH		5Y 4/3 Olive, moist, firm, mostly clay, plastic	20.0

Bottom of borehole at 20.0 feet.

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB9

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 6/21/07 - 6/21/07
CASING TYPE/DIAMETER ---
SCREEN TYPE/SLOT ---
GRAVEL PACK TYPE ---
GROUT TYPE/QUANTITY ---
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SM		5Y 4/3 Olive, moist, loose, mostly fine to very fine grained sand, little silt	2.0
0.1		24	MC		5	SP		5Y 6/8 Olive yellow, moist, loose, mostly fine to very fine grained sand, little silt	5.0
0.1		24	MC		10	SP		5Y 4/3 Olive, slightly moist, loose, mostly very fine fine grained sand, little silt	10.0
0.3		24	MC		15	CL		5Y 4/2 Olive gray, moist, firm, mostly clay, moderate plasticity	15.0
0.3		24	MC		20	CH		5Y 4/3 Olive, moist, firm, mostly clay, moderate plasticity	20.0

Bottom of borehole at 20.0 feet.

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25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB10 (MW-1)

PROJECT NAME Former Foss PLating
DATE DRILLED 6/21/07 - 6/21/07
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER ---
DRILLING METHOD Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT ---
SAMPLING METHOD Large Bore
GRAVEL PACK TYPE ---
GROUND ELEVATION
GROUT TYPE/QUANTITY ---
TOP OF CASING ---
STATIC GROUNDWATER DEPTH
LOGGED BY A. Schmitt
STATIC GROUND WATER ELEVATION
REMARKS

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SM		5Y 6/6 Olive yellow, moist, loose, mostly fine grained sand, little silt	2.0
0.1		24	MC		5	SP		5Y5/4 Olive yellow, moist, loose, mostly fine grained sand, little to trace silt	5.0
0.1		24	MC		10	SP		5Y 5/4 Olive, slightly moist, loose, mostly fine grained sand, little silt	10.0
0.1		24	MC		15	CL		5Y 3/2 Dark olive gray, moist, firm, mostly clay, moderate plasticity	15.0
0.1		24	MC		20	CH		5Y 4/2 Olive gray, moist, firm, mostly clay, moderate to high plasticity	20.0
0.3		24	MC			CL		5Y 4/2 Olive gray, moist, firm, mostly clay, trace silt, low to moderate plasticity	25.0
0.3		24	MC			SC		5Y 4/2 Olive gray, moist, firm, mostly very fine grained sand, some clay, little silt	30.0

Bottom of borehole at 20.0 feet.

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB11

PROJECT NAME Former Foss PLating
DATE DRILLED 6/21/07 - 6/21/07
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER —
DRILLING METHOD Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT —
SAMPLING METHOD Large Bore
GRAVEL PACK TYPE —
GROUND ELEVATION
GROUT TYPE/QUANTITY —
TOP OF CASING —
STATIC GROUNDWATER DEPTH
LOGGED BY A. Schmitt
STATIC GROUND WATER ELEVATION
REMARKS

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SM		5Y 4/2 Olive gray, moist, loose, mostly fine to very fine grained sand, little silt	2.0
0.1		24	MC		5	SP		5Y 5/3 Pale olive, moist, loose, mostly very fine grained sand	5.0
0.3		24	MC		10	SP		5Y 6/3 Pale olive, slightly moist, loose, mostly very fine fine grained sand, little to trace silt	10.0
0.1		24	MC		15	CL		5Y 4/1 Dark gray, moist, firm, mostly clay, moderate to low plasticity	15.0
0.1		24	MC		20	CH		5Y 4/3 Olive, moist, very firm, mostly clay, moderate plasticity	20.0

Bottom of borehole at 20.0 feet.

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB13

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 8/2/07 - 8/2/07
CASING TYPE/DIAMETER ---
SCREEN TYPE/SLOT ---
GRAVEL PACK TYPE ---
GROUT TYPE/QUANTITY ---
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (Inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			ML		5Y 7/1 Light gray, slightly moist, dense, mostly silt, little very fine grained sand	2.0
0.1		24	MC		5	SP		5Y 7/1 Light gray, dry, dense, mostly very fine grained sand, little fine sand, trace silt	5.0
0.1		24	MC		10	CL-ML		5Y 4/1 Dark gray, slightly moist, loose, mostly clay, little silt, non-plastic	10.0
								Bottom of borehole at 10.0 feet.	

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB14

PROJECT NAME Former Foss PLating
DATE DRILLED 8/2/07 - 8/2/07
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER —
DRILLING METHOD Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT —
SAMPLING METHOD Large Bore
GRAVEL PACK TYPE —
GROUND ELEVATION
GROUT TYPE/QUANTITY —
TOP OF CASING —
STATIC GROUNDWATER DEPTH
LOGGED BY A. Schmitt
STATIC GROUND WATER ELEVATION
REMARKS

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.3		24	MC			SP		5Y 5/3 Olive, loose to dense, slightly moist, mostly fine grained sand, little very fine sand	2.0
0.1		24	MC		5	SP		5Y 6/2 Light olive gray, dry, dense, mostly fine grained sand, little very fine sand	5.0
0.3		24	MC		10	CL-ML		5Y 5/2 Olive gray, moist, firm, mostly clay, little silt, non-plastic	10.0
								Bottom of borehole at 10.0 feet.	

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San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB15

PROJECT NAME: Former Foss PLating
LOCATION: 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD: Direct Push - GeoProbe 6600
SAMPLING METHOD: Large Bore
GROUND ELEVATION:
TOP OF CASING: —
LOGGED BY: A. Schmitt
REMARKS:

DATE DRILLED: 8/2/07 - 8/2/07
CASING TYPE/DIAMETER: —
SCREEN TYPE/SLOT: —
GRAVEL PACK TYPE: —
GROUT TYPE/QUANTITY: —
STATIC GROUNDWATER DEPTH:
STATIC GROUND WATER ELEVATION:

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.3		24	MC			SP-SM		5Y 6/2 Light olive gray, loose to dense, slightly moist, mostly very fine grained sand, some silt	2.0
0.1		24	MC		5	ML		5Y 6/3 Pale olive, moist, firm to soft, mostly silt, some to little very fine grained sand	5.0
0.1		24	MC		10	CL-ML		5Y 5/2 Olive gray, moist, firm, mostly clay, little silt, non-plastic	10.0
								Bottom of borehole at 10.0 feet.	

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB16

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING —
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 8/2/07 - 8/2/07
CASING TYPE/DIAMETER —
SCREEN TYPE/SLOT —
GRAVEL PACK TYPE —
GROUT TYPE/QUANTITY —
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SP		5Y 6/1 Gray, loose to dense, slightly moist, mostly very fine grained sand, some silt	2.0
0.1		24	MC		5	SP-SM		5Y 6/2 Light olive gray, moist, loose, mostly very fine grained sand, some silt	5.0
0.3		24	MC		10	CL-ML		5Y 4/1 Dark gray, moist, firm, mostly clay, little silt, non-plastic	10.0
								Bottom of borehole at 10.0 feet.	

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Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB17

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING —
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 8/2/07 - 8/2/07
CASING TYPE/DIAMETER —
SCREEN TYPE/SLOT —
GRAVEL PACK TYPE —
GROUT TYPE/QUANTITY —
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (Inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SP-SM		5Y 6/2 Light olive gray, loose to dense, slightly moist, mostly very fine grained sand, some silt	2.0
0.1		24	MC		5	SM		5Y 6/2 Light olive gray, moist, dense, mostly very fine grained sand, some silt	5.0
0.3		24	MC		10	CL-ML		5Y 4/1 Dark gray, moist, firm, mostly clay, little silt, non-plastic	10.0
								Bottom of borehole at 10.0 feet.	

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB18

PROJECT NAME Former Foss PLating
DATE DRILLED 8/2/07 - 8/2/07
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
CASING TYPE/DIAMETER ---
DRILLING METHOD Direct Push - GeoProbe 6600
SCREEN TYPE/SLOT ---
SAMPLING METHOD Large Bore
GRAVEL PACK TYPE ---
GROUND ELEVATION
GROUT TYPE/QUANTITY ---
TOP OF CASING ---
STATIC GROUNDWATER DEPTH
LOGGED BY A. Schmitt
STATIC GROUND WATER ELEVATION
REMARKS

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SP		5Y 6/2 Light olive gray, loose to dense, slightly moist, mostly very fine grained sand, some silt	2.0
0.1		24	MC		5	ML		5Y 6/3 Pale olive, moist, firm, mostly silt, little very fine grained sand	5.0
0.3		24	MC		10	CL-ML		5Y 4/1 Dark gray, moist, firm, mostly clay, little silt, non-plastic	10.0
								Bottom of borehole at 10.0 feet.	

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB19

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 8/2/07 - 8/2/07
CASING TYPE/DIAMETER ---
SCREEN TYPE/SLOT ---
GRAVEL PACK TYPE ---
GROUT TYPE/QUANTITY ---
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SM		5Y 6/2 Light olive gray, loose to dense, slightly moist, mostly very fine grained sand, some silt	2.0
0.1		24	MC		5	SP		5Y 6/2 Light olive gray, moist, loose, mostly fine to very fine grained sand, little silt	5.0
0.3		24	MC		10	CL-ML		5Y 4/1 Dark gray, moist, firm, mostly clay, little silt, low plastic	10.0
								Bottom of borehole at 10.0 feet.	

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San Juan Capistrano, CA 92675
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BORING NUMBER EB21

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING ---
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 8/2/07 - 8/2/07
CASING TYPE/DIAMETER ---
SCREEN TYPE/SLOT ---
GRAVEL PACK TYPE ---
GROUT TYPE/QUANTITY ---
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SP		5Y 5/2 Olive gray, loose to dense, slightly moist, mostly fine grained sand, little very fine sand	2.0
0.1		24	MC		5	SM		5Y 5/3 Olive, moist, dense, mostly very fine grained sand, little silt	5.0
0.3		24	MC		10	CL-ML		5Y 5/3 Olive, moist, firm, mostly clay, little silt, low plasticity	10.0
								Bottom of borehole at 10.0 feet.	

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San Juan Capistrano, CA 92675
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Fax: (949) 488-3561

BORING NUMBER EB20

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING —
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 8/2/07 - 8/2/07
CASING TYPE/DIAMETER —
SCREEN TYPE/SLOT —
GRAVEL PACK TYPE —
GROUT TYPE/QUANTITY —
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SP-SM		5Y 6/2 Light olive gray, loose to dense, slightly moist, mostly very fine grained sand, some silt	2.0
0.3		24	MC		5	SM		5Y 5/3 Olive, moist, dense, mostly fine grained sand, little silt	5.0
0.3		24	MC		10	CL-ML		5Y 5/3 Dark gray, moist, firm, mostly silt, little clay, low to non-plastic	10.0
								Bottom of borehole at 10.0 feet.	

ASTECH Environmental Services, Inc.
25742 Calle Ricardo
San Juan Capistrano, CA 92675
Telephone: (949) 338-4557
Fax: (949) 488-3561

BORING NUMBER EB22

PROJECT NAME Former Foss PLating
LOCATION 8140 Secura Way, Santa Fe Springs, CA 90670
DRILLING METHOD Direct Push - GeoProbe 6600
SAMPLING METHOD Large Bore
GROUND ELEVATION
TOP OF CASING —
LOGGED BY A. Schmitt
REMARKS

DATE DRILLED 8/2/07 - 8/2/07
CASING TYPE/DIAMETER —
SCREEN TYPE/SLOT —
GRAVEL PACK TYPE —
GROUT TYPE/QUANTITY —
STATIC GROUNDWATER DEPTH
STATIC GROUND WATER ELEVATION

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.1		24	MC			SP		5Y 6/2 Light olive gray, loose to dense, slightly moist, mostly very fine grained sand, some silt	2.0
0.1		24	MC		5	SM		5Y 5/3 Olive, moist, dense, mostly very fine grained sand, some silt	5.0
0.3		24	MC		10	CL-ML		5Y 4/2 Olive gray, moist, firm, mostly clay, little silt, low to non-plastic	10.0
								Bottom of borehole at 10.0 feet.	

APPENDIX B

LABORATORY DATA

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

June 21, 2007

ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
25742 Calle Ricardo
San Juan Capistrano, CA 92675

Project: Foss Plating
C&E ID: 70614C

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on June 14, 2007, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	06/14/07
Project Manager:	Andy Schmitt	Date Analyzed:	06/15/07
Project Name:	Foss Plating	Date Reported:	06/21/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70614C-1	70614C-2	70614C-3	70614C-4	
SAMPLE ID	CC6	CC5	CC2	CC8	
DF	1	1	1	1	

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2		
Arsenic (As)	6010B	19	1	ND	1	ND	1	7	1		
Barium (Ba)	6010B	45	1	107	1	69	1	49	1		
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1		
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5		
Chromium (Cr)	6010B	5561	1	292	1	31	1	198	1		
Cobalt (Co)	6010B	3	1	6	1	4	1	3	1		
Copper (Cu)	6010B	227	1	40	1	117	1	27	1		
Lead (Pb)	6010B	2	1	309	1	9	1	15	1		
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1		
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1		
Nickel (Ni)	6010B	203	1	563	1	1789	1	3435	1		
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2		
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1		
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2		
Vanadium (V)	6010B	9	1	8	1	13	1	13	1		
Zinc (Zn)	6010B	30	1	223	1	28	1	25	1		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- Metals ---

Matrix Spike/Matrix Spike Duplicate

Date Performed: 06/15/07
QC Batch #: MET70615

Unit: mg/kg

ANALYTE	SPK CONC	MS	MS %	MSD	MSD %	RPD	ACP %MS	ACP RPD
Arsenic	10	10.0	100	10.6	106	5.8	70-130	20
Selenium	10	10.1	101	10.4	104	2.9	70-130	20
Cadmium	10	10.0	100	10.6	106	5.8	70-130	20
Lead	10	9.9	99	10.1	101	2.0	70-130	20
Barium	10	10.8	108	11.0	110	1.8	70-130	20

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 706140

Company Name: ASTECH Environmental
Project Manager: A. Schmitt
Project No./Name: Foss Plating
Tel: 949 338 4557 Fax: 949 488 3561

Site Address: 8140 Secura Way, Santa Fe Springs, CA
Sampled By: A. Schmitt

Page 1 of 1

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS TTLC	8270C SVOC	6010B LEAD		
CC6	6/14/07	1036	Concrete	4x8 PL							/				
CC5	〃	1038	〃	〃							/				
CC2	〃	1050	〃	〃							/				
CC8	6/14/07	1055	Concrete	4x8 PL							/				

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Judy Schmitt	12/14/07 1640	[signature]	6/14/07	EDF Global ID No.: T_____
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Foss
Sample Matrix: Concrete

Date Sampled: 06/28/07
Date Analyzed: 07/09/07
Date Reported: 07/13/07
Unit Reported: mg/kg or ppm

C&E LAB ID	70629G-1	70629G-2	70629G-3	70629G-4	70629G-5
SAMPLE ID	CC1	CC3	CC4	CC7	CC9
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	5	1	ND	1	6	1	18	1	7	1
Barium (Ba)	6010B	157	1	64	1	88	1	66	1	74	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	145	1	58	1	963	1	2911	1	45	1
Cobalt (Co)	6010B	15	1	4	1	9	1	26	1	4	1
Copper (Cu)	6010B	25	1	45	1	14	1	184	1	15	1
Lead (Pb)	6010B	17	1	17	1	ND	1	1	1	7	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	983	1	3419	1	423	1	527	1	227	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	4	1	6	1	14	1	12	1	15	1
Zinc (Zn)	6010B	76	1	52	1	48	1	42	1	22	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor: RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	06/28/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/09/07
Project Name:	Foss	Date Reported:	07/13/07
Sample Matrix:	Concrete	Unit Reported:	mg/kg or ppm

C&E LAB ID	70629G-6	70629G-7	70629G-8	70629G-9	70629G-10
SAMPLE ID	CC10	CC11	CC12	CC13	CC14
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	5	1	150	1	10	1	8	1	ND	1
Barium (Ba)	6010B	37	1	49	1	89	1	91	1	36	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	55	1	6402	1	140	1	120	1	49	1
Cobalt (Co)	6010B	8	1	6	1	2	1	3	1	7	1
Copper (Cu)	6010B	3	1	674	1	20	1	37	1	2	1
Lead (Pb)	6010B	5	1	46	1	6	1	8	1	5	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	5822	1	5828	1	106	1	372	1	5893	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	ND	1	ND	1	17	1	19	1	ND	1
Zinc (Zn)	6010B	51	1	129	1	18	1	33	1	43	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	06/28/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/09/07
Project Name:	Foss	Date Reported:	07/13/07
Sample Matrix:	Concrete	Unit Reported:	mg/kg or ppm

C&E LAB ID	70629G-11	70629G-12	70629G-13	70629G-14	70629G-15
SAMPLE ID	CC15	CC16	CC17	CC18	CC19
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	ND	1	ND	1	4	1	7	1	5	1
Barium (Ba)	6010B	80	1	44	1	84	1	142	1	62	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	59	1	85	1	47	1	106	1	12	1
Cobalt (Co)	6010B	8	1	12	1	20	1	21	1	2	1
Copper (Cu)	6010B	4	1	5	1	39	1	24	1	33	1
Lead (Pb)	6010B	6	1	10	1	30	1	6	1	11	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	5852	1	5694	1	163	1	147	1	44	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	ND	1	ND	1	12	1	10	1	11	1
Zinc (Zn)	6010B	52	1	81	1	26	1	67	1	24	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	06/28/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/09/07
Project Name:	Foss	Date Reported:	07/13/07
Sample Matrix:	Concrete	Unit Reported:	mg/kg or ppm

C&E LAB ID	70629G-16	70629G-17			
SAMPLE ID	CC20	CC21			
DF	1	1			

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2						
Arsenic (As)	6010B	4	1	4	1						
Barium (Ba)	6010B	84	1	98	1						
Beryllium (Be)	6010B	ND	1	ND	1						
Cadmium (Cd)	6010B	ND	0.5	ND	0.5						
Chromium (Cr)	6010B	608	1	16	1						
Cobalt (Co)	6010B	7	1	3	1						
Copper (Cu)	6010B	255	1	20	1						
Lead (Pb)	6010B	15	1	3	1						
Mercury (Hg)	7471	ND	0.1	ND	0.1						
Molybdenum (Mo)	6010B	ND	1	ND	1						
Nickel (Ni)	6010B	987	1	16	1						
Selenium (Se)	6010B	ND	2	ND	2						
Silver (Ag)	6010B	ND	1	ND	1						
Thallium (Tl)	6010B	ND	2	ND	2						
Vanadium (V)	6010B	14	1	14	1						
Zinc (Zn)	6010B	193	1	36	1						

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: T0629G

Company Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project No./Name: Foss
Tel: 949 338 4557 Fax: 949 488 3561

Site Address: 8140 Secura Way, Santa Fe Springs, CA
Sampled By: A. Schmitt

Page 1 of 1

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
1	CC1	6/28/07		Concrete	4x8 PL							✓				
2	CC3	↓		↓	↓							✓				
3	CC4											✓				
4	CC7											✓				
5	CC9											✓				
6	CC10											✓				
7	CC11											✓				
8	CC12											✓				
9	CC13											✓				
10	CC14											✓				
11	CC15											✓				
12	CC16											✓				
13	CC17											✓				
14	CC18											✓				
15	CC19											✓				
16	CC20	↓		↓	↓							✓				
17	CC21	6/28/07		Concrete	4x8 PL							✓				

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Andy Schmitt	6/29/07 1530	[signature]	6/29/07	EDF Global ID No.: T_____
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

September 10, 2007

ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
25742 Calle Ricardo
San Juan Capistrano, CA 92675

Project: Foss
C&E ID: 70629G

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on June 29, 2007, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (STLC Arsenic) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Foss
Sample Matrix: Soil

Date Sampled: 06/28/07
Date Analyzed: 09/07/07
Date Reported: 09/07/07
Unit Reported: mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70629G-7	CC11	1	3.2	0.1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (STLC Chromium) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Foss
Sample Matrix: Soil

Date Sampled: 06/28/07
Date Analyzed: 09/07/07
Date Reported: 09/07/07
Unit Reported: mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70629G-4	CC7	1	361.4	0.1
70629G-7	CC11	1	88.5	0.1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (STLC Nickel) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Foss
Sample Matrix: Soil

Date Sampled: 06/28/07
Date Analyzed: 09/07/07
Date Reported: 09/07/07
Unit Reported: mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70629G-2	CC3	10	221.6	1.0
70629G-6	CC10	20	624.4	2.0
70629G-7	CC11	50	948.8	5.0
70629G-10	CC14	20	447.6	2.0
70629G-11	CC15	10	301.9	1.0
70629G-12	CC16	20	494.3	2.0

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Arsenic in Soil) ---

I. Laboratory Control Sample

Date Analyzed: 09/07/07
LCS ID: As70907LC

ANALYTE	LCS %	ACP %CL
Arsenic	85	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/07/07
QC Batch : As70907MS

ANALYTE	MS %	MSD %	PRD	ACP%CL	ACP RPD
Arsenic	83	93	11	70-130	20

III. Method Blank

Date Analyzed: 09/07/07

Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Arsenic	1	ND

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

QC REPORT

--- EPA 7199 (Chromium VI in Soil) ---

I. Laboratory Control Sample

Date Analyzed: 09/07/07
LCS ID: Cr70907LC

ANALYTE	LCS %	ACP %CL
Chromium VI	85	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/07/07
QC Batch : Cr70907MS

ANALYTE	MS %	MSD %	PRD	ACP%CL	ACP RPD
Chromium VI	89	106	17	70-130	20

III. Method Blank

Date Analyzed: 09/07/07 Unit: µg/kg

COMPOUND	REPORTING LIMIT	RESULT
Chromium VI	10.0	ND

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Nickel in Soil) ---

I. Laboratory Control Sample

Date Analyzed: 09/07/07
LCS ID: Ni70907LC

ANALYTE	LCS %	ACP %CL
Nickel	88	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/07/07
QC Batch : Ni70907MS

ANALYTE	MS %	MSD %	PRD	ACP%CL	ACP RPD
Nickel	104	101	3	70-130	20

III. Method Blank

Date Analyzed: 09/07/07 Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Nickel	1	ND

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

September 10, 2007 ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
25742 Calle Ricardo
San Juan Capistrano, CA 92675

Project: Foss Plating
C&E ID: 70614C

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on June 14, 2007, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (STLC Chromium) ---

Client Name:	Astech Environmental	Date Sampled:	06/14/07
Project Manager:	Andy Schmitt	Date Analyzed:	09/07/07
Project Name:	Foss Plating	Date Reported:	09/07/07
Sample Matrix:	Soil	Unit Reported:	mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70614C-1	CC6	20	589.3	2.0

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (STLC Nickel) ---

Client Name:	Astech Environmental	Date Sampled:	06/14/07
Project Manager:	Andy Schmitt	Date Analyzed:	09/07/07
Project Name:	Foss Plating	Date Reported:	09/07/07
Sample Matrix:	Soil	Unit Reported:	mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70614C-3	CC2	1	75.1	0.1
70614C-4	CC8	1	21.3	0.1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 7199 (Chromium VI in Soil) ---

I. Laboratory Control Sample

Date Analyzed: 09/07/07
LCS ID: Cr70907LC

ANALYTE	LCS %	ACP %CL
Chromium VI	85	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/07/07
QC Batch : Cr70907MS

ANALYTE	MS %	MSD %	PRD	ACP%CL	ACP RPD
Chromium VI	89	106	17	70-130	20

III. Method Blank

Date Analyzed: 09/07/07 Unit: µg/kg

COMPOUND	REPORTING LIMIT	RESULT
Chromium VI	10.0	ND

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Nickel in Soil) ---

I. Laboratory Control Sample

Date Analyzed: 09/07/07
LCS ID: Ni70907LC

ANALYTE	LCS %	ACP %CL
Nickel	88	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/07/07
QC Batch : Ni70907MS

ANALYTE	MS %	MSD %	PRD	ACP%CL	ACP RPD
Nickel	104	101	3	70-130	20

III. Method Blank

Date Analyzed: 09/07/07 Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Nickel	1	ND

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

Aug. 13, 2007 ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
25742 Calle Ricardo
San Juan Capistrano, CA 92675

Project: Former Foss Plating
C&E ID: 70806C

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on Aug. 6, 2007, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 06/21/07
Date Analyzed: 06/25/07
Date Reported: 07/09/07
Unit Reported: µg/kg or ppb

C&E LAB ID	70622J-21								
SAMPLE ID	SV1-15								
DF	1								

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5								
Benzene	11	1								
Bromodichloromethane	ND	2								
Bromoform	ND	5								
Bromomethane	ND	2								
2-Butanone (MEK)	ND	2								
Carbon Disulfide	ND	2								
Carbon Tetrachloride	ND	2								
Chlorobenzene	ND	2								
Chloroethane	ND	2								
Chloroform	8	2								
Chloromethane	ND	5								
Cyclohexane	ND	2								
Dibromochloromethane	ND	5								
1,2-Dibromo-3-Chloropropane	ND	2								
1,2-Dibromoethane	ND	2								
1,2-Dichlorobenzene	ND	2								
1,3-Dichlorobenzene	ND	2								
1,4-Dichlorobenzene	ND	2								
Dichlorodifluoromethane	ND	5								
1,1-Dichloroethane	ND	2								
1,2-Dichloroethane	ND	2								
1,1-Dichloroethene	ND	2								
cis-1,2-Dichloroethene	ND	2								
trans-1,2-Dichloroethene	ND	2								
1,2-Dichloropropane	ND	2								

To be continued on page 2

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 06/21/07
Date Analyzed: 06/25/07
Date Reported: 07/09/07
Unit Reported: µg/kg or ppb

C&E LAB ID	70622J-21									
SAMPLE ID	SV1-15									
DF	1									

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	2								
cis-1,3-Dichloropropene	ND	2								
Ethylbenzene	2	1								
2-Hexanone	ND	2								
Methyl Acetate	ND	2								
Methylcyclohexane	ND	2								
Methylene Chloride	ND	2								
4-Methyl-2-Pentanone	ND	2								
Styrene	ND	2								
Isopropylbenzene	ND	2								
4-Isopropyltoluene	ND	2								
1,1,2,2-Tetrachloroethane	ND	2								
Tetrachloroethene	8	2								
Toluene	10	1								
1,2,4-Trichlorobenzene	ND	2								
1,1,1-Trichloroethane	ND	2								
1,1,2-Trichloroethane	ND	2								
Trichloroethene	ND	2								
Trichlorofluoromethane	ND	2								
1,1,2-Trichlorotrifluoroethane	ND	2								
Vinyl Chloride	ND	5								
Total Xylenes	7	1								

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	101				
1,2-Dichloroethane-d4	116				
Toluene-D8	99				
4-Bromofluorobenzene	97				

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	06/21/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/05/07
Project Name:	Former Foss Plating	Date Reported:	07/09/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70622J-27	70622J-28	70622J-29	70622J-30	70622J-31
SAMPLE ID	MW-1/EB6-5'	MW-1/EB6-10'	MW-1/EB6-15'	MW-1/EB6-20'	MW-1/EB6-25'
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	4	1	6	1	3	1	4	1	3	1
Barium (Ba)	6010B	69	1	75	1	111	1	107	1	148	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	19	1	38	1	16	1	13	1	16	1
Cobalt (Co)	6010B	10	1	12	1	8	1	7	1	8	1
Copper (Cu)	6010B	46	1	20	1	21	1	17	1	20	1
Lead (Pb)	6010B	ND	1	9	1	2	1	5	1	2	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	7904	1	14172	1	4080	1	21	1	20	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	23	1	28	1	24	1	31	1	29	1
Zinc (Zn)	6010B	64	1	73	1	52	1	53	1	39	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	06/21/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/05/07
Project Name:	Former Foss Plating	Date Reported:	07/09/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70622J-32	70622J-49	70622J-50	70622J-51	70622J-52
SAMPLE ID	MW-1/EB6-30'	MW-2/EB10-5'	MW-2/EB10-10'	MW-2/EB10-15'	MW-2/EB10-20'
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	4	1	8	1	20	1	6	1	6	1
Barium (Ba)	6010B	123	1	104	1	91	1	111	1	119	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	14	1	2122	1	6260	1	670	1	968	1
Cobalt (Co)	6010B	8	1	6	1	6	1	6	1	7	1
Copper (Cu)	6010B	21	1	47	1	127	1	20	1	20	1
Lead (Pb)	6010B	2	1	2	1	ND	1	4	1	4	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	13	1	244	1	10	1	16	1	19	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	26	1	31	1	21	1	18	1	31	1
Zinc (Zn)	6010B	37	1	31	1	44	1	38	1	48	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	06/21/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/05/07
Project Name:	Former Foss Plating	Date Reported:	07/09/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70622J-53	70622J-54	70622J-60	70622J-61	
SAMPLE ID	MW-2/EB10-25'	MW-2/EB10-30'	Duplicate 3	Duplicate 1	
DF	1	1	1	1	

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2		
Arsenic (As)	6010B	5	1	5	1	6	1	6	1		
Barium (Ba)	6010B	121	1	160	1	110	1	97	1		
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1		
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5		
Chromium (Cr)	6010B	810	1	760	1	2234	1	48	1		
Cobalt (Co)	6010B	8	1	11	1	7	1	13	1		
Copper (Cu)	6010B	19	1	30	1	51	1	21	1		
Lead (Pb)	6010B	9	1	3	1	2	1	10	1		
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1		
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1		
Nickel (Ni)	6010B	22	1	17	1	308	1	17104	1		
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2		
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1		
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2		
Vanadium (V)	6010B	32	1	34	1	35	1	27	1		
Zinc (Zn)	6010B	49	1	49	1	36	1	75	1		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Nickel) ---

Client Name:	Astech Environmental	Date Sampled:	06/21/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/05/07
Project Name:	Former Foss Plating	Date Reported:	07/09/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70622J-1	EB1-2	1	7	1
70622J-2	EB1-5	1	73	1
70622J-3	EB1-10	1	18	1
70622J-4	EB1-15	1	14	1
70622J-5	EB1-20	1	15	1
70622J-6	EB2-2	1	4646	1
70622J-7	EB2-5	1	18775	1
70622J-8	EB2-10	1	11872	1
70622J-9	EB2-15	1	95	1
70622J-10	EB2-20	1	27	1
70622J-11	EB3-2	1	11080	1
70622J-12	EB3-5	1	9389	1
70622J-13	EB3-10	1	14152	1
70622J-14	EB3-15	1	26	1
70622J-15	EB3-20	1	12	1
70622J-16	EB4-2	1	167	1
70622J-17	EB4-5	1	19304	1
70622J-18	EB4-10	1	17	1
70622J-19	EB4-15	1	14	1
70622J-20	EB4-20	1	14	1
70622J-22	EB5-2	1	626	1
70622J-23	EB5-5	1	697	1
70622J-24	EB5-10	1	8368	1
70622J-25	EB5-15	1	17650	1
70622J-26	EB5-20	1	37	1
70622J-33	Duplicate 2	1	26	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Nickel) ---

Client Name:	Astech Environmental	Date Sampled:	06/21/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/05/07
Project Name:	Former Foss Plating	Date Reported:	07/09/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70622J-34	EB7-2	1	44	1
70622J-35	EB7-5	1	7	1
70622J-36	EB7-10	1	7	1
70622J-37	EB7-15	1	11	1
70622J-38	EB7-20	1	15	1
70622J-39	EB8-2	1	13	1
70622J-40	EB8-5	1	249	1
70622J-41	EB8-10	1	461	1
70622J-42	EB8-15	1	18	1
70622J-43	EB8-20	1	15	1
70622J-44	EB9-2	1	29	1
70622J-45	EB9-5	1	1558	1
70622J-46	EB9-10	1	88	1
70622J-47	EB9-15	1	30	1
70622J-48	EB9-20	1	15	1
70622J-55	EB11-2	1	11	1
70622J-56	EB11-5	1	9	1
70622J-57	EB11-10	1	221	1
70622J-58	EB11-15	1	13	1
70622J-59	EB11-20	1	12	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Chromium) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 06/21/07
Date Analyzed: 07/05/07
Date Reported: 07/09/07
Unit Reported: mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70622J-1	EB1-2	1	8	1
70622J-2	EB1-5	1	9	1
70622J-3	EB1-10	1	9	1
70622J-4	EB1-15	1	12	1
70622J-5	EB1-20	1	12	1
70622J-6	EB2-2	1	12	1
70622J-7	EB2-5	1	33	1
70622J-8	EB2-10	1	37	1
70622J-9	EB2-15	1	14	1
70622J-10	EB2-20	1	10	1
70622J-11	EB3-2	1	22	1
70622J-12	EB3-5	1	20	1
70622J-13	EB3-10	1	26	1
70622J-14	EB3-15	1	11	1
70622J-15	EB3-20	1	8	1
70622J-16	EB4-2	1	9	1
70622J-17	EB4-5	1	35	1
70622J-18	EB4-10	1	11	1
70622J-19	EB4-15	1	12	1
70622J-20	EB4-20	1	10	1
70622J-22	EB5-2	1	11	1
70622J-23	EB5-5	1	26	1
70622J-24	EB5-10	1	18	1
70622J-25	EB5-15	1	44	1
70622J-26	EB5-20	1	11	1
70622J-33	Duplicate 2	1	5972	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Chromium) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 06/21/07
Date Analyzed: 07/05/07
Date Reported: 07/09/07
Unit Reported: mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70622J-34	EB7-2	1	16	1
70622J-35	EB7-5	1	13	1
70622J-36	EB7-10	1	52	1
70622J-37	EB7-15	1	720	1
70622J-38	EB7-20	1	13	1
70622J-39	EB8-2	1	506	1
70622J-40	EB8-5	1	2260	1
70622J-41	EB8-10	1	1938	1
70622J-42	EB8-15	1	1780	1
70622J-43	EB8-20	1	670	1
70622J-44	EB9-2	1	8537	1
70622J-45	EB9-5	1	3788	1
70622J-46	EB9-10	1	5680	1
70622J-47	EB9-15	1	839	1
70622J-48	EB9-20	1	1479	1
70622J-55	EB11-2	1	252	1
70622J-56	EB11-5	1	282	1
70622J-57	EB11-10	1	1529	1
70622J-58	EB11-15	1	952	1
70622J-59	EB11-20	1	456	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Arsenic) ---

Client Name:	Astech Environmental	Date Sampled:	06/21/07
Project Manager:	Andy Schmitt	Date Analyzed:	07/05/07
Project Name:	Former Foss Plating	Date Reported:	07/09/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70622J-1	EB1-2	1	3	1
70622J-2	EB1-5	1	5	1
70622J-3	EB1-10	1	6	1
70622J-4	EB1-15	1	5	1
70622J-5	EB1-20	1	5	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOCs) ---

LCS/LCS Duplicate

Date Performed: 06/25/07
QC Batch #: VOC70625

Unit: ug/L

ANALYTE	SPK CONC	LCS	LCS %	LCSD	LCSD %	RPD	ACP %LCS	ACP RPD
1,1-Dichloroethene	20	22.25	111.3	22.14	110.7	0.5	70-130	20
Benzene	20	19.83	99.2	19.54	97.7	1.5	70-130	20
Trichloroethene	20	18.13	90.7	18.09	90.5	0.2	70-130	20
Toluene	20	18.22	91.1	19.16	95.8	5.0	70-130	20
Chlorobenzene	20	17.73	88.7	17.70	88.5	0.2	70-130	20

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOCs) ---

Method Blank

Date Performed: 06/25/07
QC Batch #: VOC-WMB

COMPOUND	Reporting Limit (µg/L)	RESULT (µg/L or ppb)	COMPOUND	Reporting Limit (µg/L)	RESULT (µg/L or ppb)
Acetone	2.0	ND	trans-1,2-Dichloroethene	0.5	ND
Benzene	0.5	ND	1,2-Dichloropropane	0.5	ND
Bromodichloromethane	1.0	ND	trans-1,3-Dichloropropene	0.5	ND
Bromoform	1.0	ND	cis-1,3-Dichloropropene	0.5	ND
Bromomethane	1.0	ND	Ethylbenzene	0.5	ND
2-Butanone (MEK)	2.0	ND	2-Hexanone	0.5	ND
Carbon Disulfide	1.0	ND	Methyl Acetate	0.5	ND
Carbon Tetrachloride	0.5	ND	Methylcyclohexane	0.5	ND
Chlorobenzene	0.5	ND	Methylene Chloride	0.5	ND
Chloroethane	1.0	ND	4-Methyl-2-Pentanone	0.5	ND
Chloroform	1.0	ND	Styrene	0.5	ND
Chloromethane	1.0	ND	Isopropylbenzene	0.5	ND
Cyclohexane	0.5	ND	4-Isopropyltoluene	0.5	ND
Dibromochloromethane	1.0	ND	1,1,2,2-Tetrachloroethane	0.5	ND
1,2-Dibromo-3-Chloropropane	1.0	ND	Tetrachloroethene	0.5	ND
1,2-Dibromoethane	1.0	ND	Toluene	0.5	ND
1,2-Dichlorobenzene	0.5	ND	1,2,4-Trichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND	1,1,1-Trichloroethane	0.5	ND
1,4-Dichlorobenzene	0.5	ND	1,1,2-Trichloroethane	0.5	ND
Dichlorodifluoromethane	1.0	ND	Trichloroethene	0.5	ND
1,1-Dichloroethane	0.5	ND	Trichlorofluoromethane	0.5	ND
1,2-Dichloroethane	0.5	ND	1,1,2-Trichlorotrifluoroethane	0.5	ND
1,1-Dichloroethene	0.5	ND	Vinyl Chloride	0.5	ND
cis-1,2-Dichloroethene	0.5	ND	Total Xylenes	0.5	ND

ND = Not detected at the indicated reporting limit.

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	98
1,2-Dichloroethane-D4	100
Toluene-D8	99
4-Bromofluorobenzene	102

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- Metals ---

Matrix Spike/Matrix Spike Duplicate

Date Performed: 07/05/07
QC Batch #: MET70705

Unit: mg/kg

ANALYTE	SPK CONC	MS	MS %	MSD	MSD %	RPD	ACP %MS	ACP RPD
Arsenic	10	9.8	98	10.7	107	8.8	70-130	20
Selenium	10	9.7	97	10.1	101	4.0	70-130	20
Cadmium	10	10.0	100	10.3	103	3.0	70-130	20
Lead	10	10.0	100	10.1	101	1.0	70-130	20
Barium	10	10.7	107	11.0	110	2.8	70-130	20

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Metals) ---

Method Blank

Date Performed: 07/05/07
QC Batch #: MET-SMB

COMPOUND	Reporting Limit (mg/kg)	RESULT (mg/kg or ppm)
Antimony (Sb)	2	ND
Arsenic (As)	1	ND
Barium (Ba)	1	ND
Berryllium (Be)	1	ND
Cadmium (Cd)	0.5	ND
Chromium (Cr)	1	ND
Cobalt (Co)	1	ND
Copper (Cu)	1	ND
Lead (Pb)	1	ND
Mercury (Hg)	0.1	ND
Molybdenum (Mo)	1	ND
Nickel (Ni)	1	ND
Selenium (Se)	2	ND
Silver (Ag)	1	ND
Thallium (Tl)	2	ND
Vanadium (V)	1	ND
Zinc (Zn)	1	ND

ND = Not detected at the indicated reporting limit.

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CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 78622J

Company Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project No./Name: Former Foss Plating
Tel: 949 338 4557 Fax: 949 488 3561
Site Address: 8140 Secura Way, Santa Fe Springs, CA
Sampled By: Kevin Berry

Page 1 of 4

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B ~~LEAD~~ AS	Cr	Ni
1	EB1 - 2	6/21/07	08:26	soil	1" PL											
2	5		08:33													
3	10		08:37													
4	15		08:44													
5	20		08:51													
6	EB2 - 2		08:58													
7	5		09:02													
8	10		09:07													
9	15		09:11													
10	20		09:21													
11	EB3 - 2		09:34													
12	5		09:38													
13	10		09:43													
14	15		09:54													
15	20		10:00													
16	EB4 - 2		10:05													
17	-5		10:09													
18	-10		10:14													
19	-15		10:18													
20	-20		10:25													

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
	6/22/07		6/22/07 5:40	EDF Global ID No.: T_____
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 70622J

Company Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project No./Name: Former Foss
Tel: Fax:
Site Address: 8140 Secura Way, Santa Fe Springs, CA
Sampled By: Kevin Berry

Page 2 of 4

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B ~~LEAD~~ AS	Cr	Ni
21	SV1 - 15	6/21/07	10:31	Soil	4g vials						—					
22	EB5 - 2		10 52		1" PL										—	—
23	-5		10 55												—	—
24	-10		10 57												—	—
25	-15		11 01												—	—
26	-20		11 09												—	—
27	MW-1/EB6 - 5'		16 00									—				
28	MW-1/EB6-10		16 03									—				
29	-15		16 07									—				
30	-20		16 12									—				
31	-25		16 20									—				
32	-30		16 34									—				
33	~~MW-1 2~~ DUPLICATE		14 11												—	—
34	EB7 - 2		12 23												—	—
35	-5		12 26												—	—
36	-10		12 33												—	—
37	-15		12 42												—	—
38	-20		12 46												—	—
39	EB8-2		14 37												—	—
40	-5		14 40												—	—

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
[signature]	6/22/07	[signature]	6/22/07 5:40	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 706227

Company Name: ASTECH ENVIRONMENTAL
Project Manager: ANDY Schmitt
Project No./Name: Former Foss Plating
Tel: 949-338-4557 Fax: 949-488-3561
Site Address: 8140 Secura way, SANTA FE Springs CA
Sampled By: KEVIN BERRY

Page 3 of 4

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B ~~LEAD~~ AS	Cr	Ni
41	EB-8-10	6/21/07	14:45	SOIL	1" PL										—	—
42	-15		14:52												—	—
43	-20		14:58												—	—
44	EB9-2		14:06												—	—
45	-5		14:10												—	—
46	-10		14:16												—	—
47	-15		14:21												—	—
48	-20		14:28												—	—
49	MW-2/EB10-5		12:55									—				
50	MW-2/EB10-10		13:02									—				
51	-15		13:09									—				
52	-20		13:21									—				
53	-25		13:43									—				
54	-30		13:56									—				
55	EB-11-2		15:06												—	—
56	-5		15:11												—	—
57	-10		15:15												—	—
58	-15		15:19												—	—
59	-20		15:24												—	—
60	DUPLICATE 1		13:47									—				

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
	6/22/07		6/22/07 5:40	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHAIN OF CUSTODY RECORD

C&E LAB ID 706 22J

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: ASTEC ENVIRONMENTAL
Project Manager: ANDY Schmitt
Project No./Name: Former Foss plating
Tel: 949-338-4557 Fax: 949-488-3561
Site Address: 8140 SECURA WAY, Santa Fe Springs CA
Sampled By: KEVIN DERRY

Page 4 of 4

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
61	Duplicate1	6/21/07	16:10	Soil	1" PL							—				
62	EQ62107															

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
	6/22/07		6/22/07 5:40	EDF Global ID No.: T_____
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/07/07
Date Reported: 08/10/07
Unit Reported: µg/kg or ppb

C&E LAB ID	70806C-6		70806C-9		70806C-12		70806C-15		70806C-27	
SAMPLE ID	EB13-10		EB14-10		EB18-10		EB16-10		EB20-10	
DF	1		1		1		1		1	
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	ND	1	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	ND	2	ND	2	ND	2	ND	2	ND	2
Bromoform	ND	5	ND	5	ND	5	ND	5	ND	5
Bromomethane	ND	2	ND	2	ND	2	ND	2	ND	2
2-Butanone (MEK)	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Disulfide	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Tetrachloride	ND	2	ND	2	ND	2	ND	2	ND	2
Chlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
Chloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Chloroform	ND	2	ND	2	ND	2	ND	2	ND	2
Chloromethane	ND	5	ND	5	ND	5	ND	5	ND	5
Cyclohexane	ND	2	ND	2	ND	2	ND	2	ND	2
Dibromochloromethane	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromo-3-Chloropropane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dibromoethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,3-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,4-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
Dichlorodifluoromethane	ND	5	ND	5	ND	5	ND	5	ND	5
1,1-Dichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
cis-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
trans-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichloropropane	ND	2	ND	2	ND	2	ND	2	ND	2

To be continued on page 2

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/07/07
Date Reported: 08/10/07
Unit Reported: µg/kg or ppb

C&E LAB ID	70806C-6		70806C-9		70806C-12		70806C-15		70806C-27	
SAMPLE ID	EB13-10		EB14-10		EB18-10		EB16-10		EB20-10	
DF	1		1		1		1		1	
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	ND	2
cis-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	ND	2
Ethylbenzene	ND	1	ND	1	ND	1	ND	1	ND	1
2-Hexanone	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetate	ND	2	ND	2	ND	2	ND	2	ND	2
Methylcyclohexane	ND	2	ND	2	ND	2	ND	2	ND	2
Methylene Chloride	ND	2	ND	2	ND	2	ND	2	ND	2
4-Methyl-2-Pentanone	ND	2	ND	2	ND	2	ND	2	ND	2
Styrene	ND	2	ND	2	ND	2	ND	2	ND	2
Isopropylbenzene	ND	2	ND	2	ND	2	ND	2	ND	2
4-Isopropyltoluene	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2,2-Tetrachloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Tetrachloroethene	18	2	20	2	3	2	14	2	5	2
Toluene	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,1-Trichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2-Trichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Trichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
Trichlorofluoromethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2-Trichlorotrifluoroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Vinyl Chloride	ND	5	ND	5	ND	5	ND	5	ND	5
Total Xylenes	ND	1	ND	1	ND	1	ND	1	ND	1

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	106	110	110	110	109
1,2-Dichloroethane-d4	122	121	123	129	125
Toluene-D8	90	89	89	89	90
4-Bromofluorobenzene	95	87	90	91	90

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/07/07
Date Reported: 08/10/07
Unit Reported: µg/kg or ppb

C&E LAB ID	70806C-28		70806C-32		70806C-35					
SAMPLE ID	EB12-15		EB22-10		EB23-10					
DF	1		1		1					
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5	ND	5	ND	5				
Benzene	ND	1	ND	1	ND	1				
Bromodichloromethane	ND	2	ND	2	ND	2				
Bromoform	ND	5	ND	5	ND	5				
Bromomethane	ND	2	ND	2	ND	2				
2-Butanone (MEK)	ND	2	ND	2	ND	2				
Carbon Disulfide	ND	2	ND	2	ND	2				
Carbon Tetrachloride	ND	2	ND	2	ND	2				
Chlorobenzene	ND	2	ND	2	ND	2				
Chloroethane	ND	2	ND	2	ND	2				
Chloroform	ND	2	ND	2	ND	2				
Chloromethane	ND	5	ND	5	ND	5				
Cyclohexane	ND	2	ND	2	ND	2				
Dibromochloromethane	ND	5	ND	5	ND	5				
1,2-Dibromo-3-Chloropropane	ND	2	ND	2	ND	2				
1,2-Dibromoethane	ND	2	ND	2	ND	2				
1,2-Dichlorobenzene	ND	2	ND	2	ND	2				
1,3-Dichlorobenzene	ND	2	ND	2	ND	2				
1,4-Dichlorobenzene	ND	2	ND	2	ND	2				
Dichlorodifluoromethane	ND	5	ND	5	ND	5				
1,1-Dichloroethane	ND	2	ND	2	ND	2				
1,2-Dichloroethane	ND	2	ND	2	ND	2				
1,1-Dichloroethene	3	2	ND	2	ND	2				
cis-1,2-Dichloroethene	ND	2	ND	2	ND	2				
trans-1,2-Dichloroethene	ND	2	ND	2	ND	2				
1,2-Dichloropropane	ND	2	ND	2	ND	2				

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/07/07
Date Reported: 08/10/07
Unit Reported: µg/kg or ppb

C&E LAB ID	70806C-28	70806C-32	70806C-35		
SAMPLE ID	EB12-15	EB22-10	EB23-10		
DF	1	1	1		

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	2	ND	2	ND	2				
cis-1,3-Dichloropropene	ND	2	ND	2	ND	2				
Ethylbenzene	ND	1	ND	1	ND	1				
2-Hexanone	ND	2	ND	2	ND	2				
Methyl Acetate	ND	2	ND	2	ND	2				
Methylcyclohexane	ND	2	ND	2	ND	2				
Methylene Chloride	ND	2	ND	2	ND	2				
4-Methyl-2-Pentanone	ND	2	ND	2	ND	2				
Styrene	ND	2	ND	2	ND	2				
Isopropylbenzene	ND	2	ND	2	ND	2				
4-Isopropyltoluene	ND	2	ND	2	ND	2				
1,1,2,2-Tetrachloroethane	ND	2	ND	2	ND	2				
Tetrachloroethene	35	2	15	2	18	2				
Toluene	ND	1	ND	1	ND	1				
1,2,4-Trichlorobenzene	ND	2	ND	2	ND	2				
1,1,1-Trichloroethane	ND	2	ND	2	ND	2				
1,1,2-Trichloroethane	ND	2	ND	2	ND	2				
Trichloroethene	ND	2	ND	2	ND	2				
Trichlorofluoromethane	ND	2	ND	2	ND	2				
1,1,2-Trichlorotrifluoroethane	ND	2	ND	2	ND	2				
Vinyl Chloride	ND	5	ND	5	ND	5				
Total Xylenes	ND	1	ND	1	ND	1				

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	107	108	110		
1,2-Dichloroethane-d4	125	129	102		
Toluene-D8	89	90	100		
4-Bromofluorobenzene	91	89	84		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	ASTECH Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/08/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70806C-4	70806C-5	70806C-7	70806C-8	70806C-10
SAMPLE ID	EB13-2	EB13-5	EB14-2	EB14-5	EB18-2
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	7	1	3	1	4	1	4	1	4	1
Barium (Ba)	6010B	73	1	39	1	107	1	50	1	77	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	1650	1	21	1	15	1	6	1	7	1
Cobalt (Co)	6010B	10	1	2	1	6	1	3	1	4	1
Copper (Cu)	6010B	159	1	2	1	17	1	7	1	12	1
Lead (Pb)	6010B	33	1	102	1	3	1	2	1	ND	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	2369	1	75	1	11	1	16	1	7	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	2	1	2	1	19	1	10	1	13	1
Zinc (Zn)	6010B	137	1	17	1	33	1	18	1	23	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/08/07
Date Reported: 08/10/07
Unit Reported: mg/kg or ppm

C&E LAB ID	70806C-11	70806C-13	70806C-14	70806C-25	70806C-26
SAMPLE ID	EB18-5	EB16-2	EB16-5	EB20-2	EB20-5
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	5	1	5	1	2	1	5	1	3	1
Barium (Ba)	6010B	91	1	108	1	49	1	65	1	63	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	11	1	10	1	4	1	12	1	5	1
Cobalt (Co)	6010B	5	1	5	1	2	1	3	1	3	1
Copper (Cu)	6010B	15	1	16	1	8	1	13	1	9	1
Lead (Pb)	6010B	4	1	3	1	2	1	ND	1	ND	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	103	1	9	1	7	1	17	1	4	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	16	1	16	1	7	1	9	1	9	1
Zinc (Zn)	6010B	30	1	31	1	13	1	21	1	23	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	ASTECH Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/08/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70806C-30	70806C-31	70806C-33	70806C-34	
SAMPLE ID	EB22-2	EB22-5	EB23-2	EB23-5	
DF	1	1	1	1	

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2		
Arsenic (As)	6010B	4	1	2	1	3	1	4	1		
Barium (Ba)	6010B	68	1	69	1	59	1	89	1		
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1		
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5		
Chromium (Cr)	6010B	7	1	6	1	6	1	8	1		
Cobalt (Co)	6010B	3	1	3	1	3	1	4	1		
Copper (Cu)	6010B	12	1	10	1	10	1	13	1		
Lead (Pb)	6010B	15	1	ND	1	11	1	ND	1		
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1		
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1		
Nickel (Ni)	6010B	51	1	20	1	39	1	29	1		
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2		
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1		
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2		
Vanadium (V)	6010B	10	1	11	1	10	1	15	1		
Zinc (Zn)	6010B	33	1	21	1	32	1	27	1		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 9045 (pH) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/08/07
Date Reported: 08/10/07
Unit Reported: 1 - 14

C&E LAB ID	SAMPLE ID	RESULT
70806C-4	EB13-2	6.76
70806C-5	EB13-5	6.46
70806C-7	EB14-2	8.51
70806C-8	EB14-5	7.74
70806C-10	EB18-2	8.89
70806C-11	EB18-5	8.76
70806C-13	EB16-2	8.73
70806C-14	EB16-5	9.45
70806C-25	EB20-2	8.86
70806C-26	EB20-5	8.86
70806C-30	EB22-2	8.52
70806C-31	EB22-5	8.78
70806C-33	EB23-2	8.52
70806C-34	EB23-5	8.73

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Chromium) ---

Client Name:	Astech Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/09/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70806C-1	EB15-2	1	7	1
70806C-2	EB15-5	1	21	1
70806C-3	EB15-10	1	8	1
70806C-16	EB17-2	1	7	1
70806C-17	EB17-5	1	13	1
70806C-18	EB17-10	1	12	1
70806C-19	EB21-2	1	48	1
70806C-20	EB21-5	1	7	1
70806C-21	EB21-10	1	8	1
70806C-22	EB19-2	1	9	1
70806C-23	EB19-5	1	7	1
70806C-24	EB19-10	1	8	1
70806C-29	EB12-15	1	7	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Nickel) ---

Client Name:	Astech Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/09/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70806C-1	EB15-2	1	10	1
70806C-2	EB15-5	1	256	1
70806C-3	EB15-10	1	64	1
70806C-16	EB17-2	1	13	1
70806C-17	EB17-5	1	16	1
70806C-18	EB17-10	1	21	1
70806C-19	EB21-2	1	101	1
70806C-20	EB21-5	1	4	1
70806C-21	EB21-10	1	10	1
70806C-22	EB19-2	1	9	1
70806C-23	EB19-5	1	35	1
70806C-24	EB19-10	1	18	1
70806C-29	EB12-15	1	11	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOCs) ---

LCS/LCS Duplicate

Date Performed: 08/07/07

QC Batch #: VOC70807

Unit: µg/L

ANALYTE	SPK CONC	LCS	LCS %	LCSD	LCSD %	RPD	ACP %LCS	ACP RPD
1,1-Dichloroethene	20	19.88	99.4	18.90	94.5	5.1	70-130	20
Benzene	20	19.86	99.3	18.57	92.9	6.7	70-130	20
Trichloroethene	20	19.32	96.6	18.01	90.1	7.0	70-130	20
Toluene	20	19.48	97.4	16.88	84.4	14.3	70-130	20
Chlorobenzene	20	19.92	99.6	17.70	88.5	11.8	70-130	20

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- Metals ---

Matrix Spike/Matrix Spike Duplicate

Date Performed: 08/08/07
QC Batch #: MET70808

Unit: mg/kg

ANALYTE	SPK CONC	MS	MS %	MSD	MSD %	RPD	ACP %MS	ACP RPD
Arsenic	10	9.9	99	9.2	92	7.3	70-130	20
Selenium	10	9.3	93	8.6	86	7.8	70-130	20
Cadmium	10	9.0	90	8.9	89	1.1	70-130	20
Lead	10	9.2	92	9.5	95	3.2	70-130	20
Barium	10	9.3	93	9.0	90	3.3	70-130	20

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CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 70806C

Company Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project No./Name: Former Foss Plating
Tel: 949 338 4557 Fax: 949 488 3561
Site Address:
Sampled By: Kevin P. Berry

Page 1 of 2

Sample Conditions: X Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	~~8010B LEAD~~ PH	Ni	Cr
1	EB15-2	8/2/07	09:03	Soil	1-PL										X	X
2	EB15-5	8/2/07	09:14	Soil	1-PL										X	X
3	EB15-10	8/2/07	09:21	Soil	1-PL										X	X
4	EB13-2	8/2/07	09:37	Soil	1-PL							X		X		
5	EB13-5	8/2/07	09:39	Soil	1-PL							X		X		
6	EB13-10	8/2/07	09:48	Soil	3-Vials						X					
7	EB14-2	8/2/07	09:57	Soil	1-PL							X		X		
8	EB14-5	8/2/07	10:03	Soil	1-PL							X		X		
9	EB14-10	8/2/07	10:12	Soil	3-VIALS						X					
10	EB18-2	8/2/07	10:39	Soil	1-PL							X		X		
11	EB18-5	8/2/07	10:48	Soil	1-PL							X		X		
12	EB18-10	8/2/07	11:05	Soil	3-VIALS						X					
13	EB16-2	8/2/07	11:51	Soil	1-PL							X		X		
14	EB16-5	8/2/07	11:55	Soil	1-PL							X		X		
15	EB16-10	8/2/07	11:58	Soil	3-VIALS						X					
16	EB17-2	8/2/07	12:13	Soil	1-PL										X	X
17	EB17-5	8/2/07	12:17	Soil	1-PL										X	X
18	EB17-10	8/2/07	12:22	Soil	1-PL										X	X
19	EB21-2	8/2/07	12:36	Soil	1-PL										X	X
20	EB21-5	8/2/07	12:40	Soil	1-PL										X	X

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
[signature]	8/3/07 2600	May	8/6	EDF Global ID No.: T_____
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 70806C

Company Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project No./Name: Former Foss Plating
Tel: 949 338 4557 Fax: 949 488 3561
Site Address:
Sampled By: KEVIN P BERRY

Page 2 of 2

Sample Conditions: X Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	~~6010B LEAD~~	Ni	Cr
21	EB21-10	8/2/07	12:52	Soil	1-PL										X	X
22	EB19-2	8/2/07	13:05	Soil	1-PL										X	X
23	EB19-5	8/2/07	13:09	Soil	1-PL										X	X
24	EB19-10	8/2/07	13:22	Soil	1-PL										X	X
25	EB20-2	8/2/07	13:44	Soil	1-PL							X		X		
26	EB20-5	8/2/07	13:49	Soil	1-PL							X		X		
27	EB20-10	8/2/07	14:00	Soil	3-VIALS						X					
28	EB12-15	8/2/07	15:02	Soil	3-VIALS						X					
29	EB12-15	8/2/07	15:02	Soil	1-PL										X	X
30	EB22-2	8/2/07	15:43	Soil	1-PL							X		X		
31	EB22-5	8/2/07	15:46	Soil	1-PL							X		X		
32	EB22-10	8/2/07	15:53	Soil	3-VIALS						X					
33	EB23-2	8/2/07	16:04	Soil	1-PL							X		X		
34	EB23-5	8/2/07	16:07	Soil	1-PL							X		X		
35	EB23-10	8/2/07	16:20	Soil	3-VIALS						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
	8/3/07 1600	Mary	8/6	EDF Global ID No.: T_____
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	ASTECH Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/08/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70806C-4	70806C-5	70806C-7	70806C-8	70806C-10
SAMPLE ID	EB13-2	EB13-5	EB14-2	EB14-5	EB18-2
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	7	1	3	1	4	1	4	1	4	1
Barium (Ba)	6010B	73	1	39	1	107	1	50	1	77	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	1650	1	21	1	15	1	6	1	7	1
Cobalt (Co)	6010B	10	1	2	1	6	1	3	1	4	1
Copper (Cu)	6010B	159	1	2	1	17	1	7	1	12	1
Lead (Pb)	6010B	33	1	102	1	3	1	2	1	ND	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	2369	1	75	1	11	1	16	1	7	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	2	1	2	1	19	1	10	1	13	1
Zinc (Zn)	6010B	137	1	17	1	33	1	18	1	23	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	ASTECH Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/08/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70806C-11	70806C-13	70806C-14	70806C-25	70806C-26
SAMPLE ID	EB18-5	EB16-2	EB16-5	EB20-2	EB20-5
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	5	1	5	1	2	1	5	1	3	1
Barium (Ba)	6010B	91	1	108	1	49	1	65	1	63	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	11	1	10	1	4	1	12	1	5	1
Cobalt (Co)	6010B	5	1	5	1	2	1	3	1	3	1
Copper (Cu)	6010B	15	1	16	1	8	1	13	1	9	1
Lead (Pb)	6010B	4	1	3	1	2	1	ND	1	ND	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	103	1	9	1	7	1	17	1	4	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	16	1	16	1	7	1	9	1	9	1
Zinc (Zn)	6010B	30	1	31	1	13	1	21	1	23	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	ASTECH Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/08/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	70806C-30	70806C-31	70806C-33	70806C-34	
SAMPLE ID	EB22-2	EB22-5	EB23-2	EB23-5	
DF	1	1	1	1	

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2		
Arsenic (As)	6010B	4	1	2	1	3	1	4	1		
Barium (Ba)	6010B	68	1	69	1	59	1	89	1		
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1		
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5		
Chromium (Cr)	6010B	7	1	6	1	6	1	8	1		
Cobalt (Co)	6010B	3	1	3	1	3	1	4	1		
Copper (Cu)	6010B	12	1	10	1	10	1	13	1		
Lead (Pb)	6010B	15	1	ND	1	11	1	ND	1		
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1		
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1		
Nickel (Ni)	6010B	51	1	20	1	39	1	29	1		
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2		
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1		
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2		
Vanadium (V)	6010B	10	1	11	1	10	1	15	1		
Zinc (Zn)	6010B	33	1	21	1	32	1	27	1		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Chromium) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/09/07
Date Reported: 08/10/07
Unit Reported: mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70806C-1	EB15-2	1	7	1
70806C-2	EB15-5	1	21	1
70806C-3	EB15-10	1	8	1
70806C-16	EB17-2	1	7	1
70806C-17	EB17-5	1	13	1
70806C-18	EB17-10	1	12	1
70806C-19	EB21-2	1	48	1
70806C-20	EB21-5	1	7	1
70806C-21	EB21-10	1	8	1
70806C-22	EB19-2	1	9	1
70806C-23	EB19-5	1	7	1
70806C-24	EB19-10	1	8	1
70806C-29	EB12-15	1	7	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 6010B (Nickel) ---

Client Name:	Astech Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/09/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
70806C-1	EB15-2	1	10	1
70806C-2	EB15-5	1	256	1
70806C-3	EB15-10	1	64	1
70806C-16	EB17-2	1	13	1
70806C-17	EB17-5	1	16	1
70806C-18	EB17-10	1	21	1
70806C-19	EB21-2	1	101	1
70806C-20	EB21-5	1	4	1
70806C-21	EB21-10	1	10	1
70806C-22	EB19-2	1	9	1
70806C-23	EB19-5	1	35	1
70806C-24	EB19-10	1	18	1
70806C-29	EB12-15	1	11	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 9045 (pH) ---

Client Name: Astech Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/08/07
Date Reported: 08/10/07
Unit Reported: 1 - 14

C&E LAB ID	SAMPLE ID	RESULT
70806C-4	EB13-2	6.76
70806C-5	EB13-5	6.46
70806C-7	EB14-2	8.51
70806C-8	EB14-5	7.74
70806C-10	EB18-2	8.89
70806C-11	EB18-5	8.76
70806C-13	EB16-2	8.73
70806C-14	EB16-5	9.45
70806C-25	EB20-2	8.86
70806C-26	EB20-5	8.86
70806C-30	EB22-2	8.52
70806C-31	EB22-5	8.78
70806C-33	EB23-2	8.52
70806C-34	EB23-5	8.73

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/07/07
Date Reported: 08/10/07
Unit Reported: µg/kg or ppb

C&E LAB ID	70806C-6		70806C-9		70806C-12		70806C-15		70806C-27	
SAMPLE ID	EB13-10		EB14-10		EB18-10		EB16-10		EB20-10	
DF	1		1		1		1		1	
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	ND	1	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	ND	2	ND	2	ND	2	ND	2	ND	2
Bromoform	ND	5	ND	5	ND	5	ND	5	ND	5
Bromomethane	ND	2	ND	2	ND	2	ND	2	ND	2
2-Butanone (MEK)	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Disulfide	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Tetrachloride	ND	2	ND	2	ND	2	ND	2	ND	2
Chlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
Chloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Chloroform	ND	2	ND	2	ND	2	ND	2	ND	2
Chloromethane	ND	5	ND	5	ND	5	ND	5	ND	5
Cyclohexane	ND	2	ND	2	ND	2	ND	2	ND	2
Dibromochloromethane	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromo-3-Chloropropane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dibromoethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,3-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,4-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
Dichlorodifluoromethane	ND	5	ND	5	ND	5	ND	5	ND	5
1,1-Dichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
cis-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
trans-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichloropropane	ND	2	ND	2	ND	2	ND	2	ND	2

To be continued on page 2

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: ASTECH Environmental
Project Manager: Andy Schmitt
Project Name: Former Foss Plating
Sample Matrix: Soil

Date Sampled: 08/02/07
Date Analyzed: 08/07/07
Date Reported: 08/10/07
Unit Reported: µg/kg or ppb

C&E LAB ID	70806C-6		70806C-9		70806C-12		70806C-15		70806C-27	
SAMPLE ID	EB13-10		EB14-10		EB18-10		EB16-10		EB20-10	
DF	1		1		1		1		1	
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	ND	2
cis-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	ND	2
Ethylbenzene	ND	1	ND	1	ND	1	ND	1	ND	1
2-Hexanone	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetate	ND	2	ND	2	ND	2	ND	2	ND	2
Methylcyclohexane	ND	2	ND	2	ND	2	ND	2	ND	2
Methylene Chloride	ND	2	ND	2	ND	2	ND	2	ND	2
4-Methyl-2-Pentanone	ND	2	ND	2	ND	2	ND	2	ND	2
Styrene	ND	2	ND	2	ND	2	ND	2	ND	2
Isopropylbenzene	ND	2	ND	2	ND	2	ND	2	ND	2
4-Isopropyltoluene	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2,2-Tetrachloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Tetrachloroethene	18	2	20	2	3	2	14	2	5	2
Toluene	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,1-Trichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2-Trichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Trichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
Trichlorofluoromethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2-Trichlorotrifluoroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Vinyl Chloride	ND	5	ND	5	ND	5	ND	5	ND	5
Total Xylenes	ND	1	ND	1	ND	1	ND	1	ND	1

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	106	110	110	110	109
1,2-Dichloroethane-d4	122	121	123	129	125
Toluene-D8	90	89	89	89	90
4-Bromofluorobenzene	95	87	90	91	90

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	ASTECH Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/07/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	70806C-28	70806C-32	70806C-35		
SAMPLE ID	EB12-15	EB22-10	EB23-10		
DF	1	1	1		

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5	ND	5	ND	5				
Benzene	ND	1	ND	1	ND	1				
Bromodichloromethane	ND	2	ND	2	ND	2				
Bromoform	ND	5	ND	5	ND	5				
Bromomethane	ND	2	ND	2	ND	2				
2-Butanone (MEK)	ND	2	ND	2	ND	2				
Carbon Disulfide	ND	2	ND	2	ND	2				
Carbon Tetrachloride	ND	2	ND	2	ND	2				
Chlorobenzene	ND	2	ND	2	ND	2				
Chloroethane	ND	2	ND	2	ND	2				
Chloroform	ND	2	ND	2	ND	2				
Chloromethane	ND	5	ND	5	ND	5				
Cyclohexane	ND	2	ND	2	ND	2				
Dibromochloromethane	ND	5	ND	5	ND	5				
1,2-Dibromo-3-Chloropropane	ND	2	ND	2	ND	2				
1,2-Dibromoethane	ND	2	ND	2	ND	2				
1,2-Dichlorobenzene	ND	2	ND	2	ND	2				
1,3-Dichlorobenzene	ND	2	ND	2	ND	2				
1,4-Dichlorobenzene	ND	2	ND	2	ND	2				
Dichlorodifluoromethane	ND	5	ND	5	ND	5				
1,1-Dichloroethane	ND	2	ND	2	ND	2				
1,2-Dichloroethane	ND	2	ND	2	ND	2				
1,1-Dichloroethene	3	2	ND	2	ND	2				
cis-1,2-Dichloroethene	ND	2	ND	2	ND	2				
trans-1,2-Dichloroethene	ND	2	ND	2	ND	2				
1,2-Dichloropropane	ND	2	ND	2	ND	2				

To be continued on page 2

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	ASTECH Environmental	Date Sampled:	08/02/07
Project Manager:	Andy Schmitt	Date Analyzed:	08/07/07
Project Name:	Former Foss Plating	Date Reported:	08/10/07
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	70806C-28	70806C-32	70806C-35		
SAMPLE ID	EB12-15	EB22-10	EB23-10		
DF	1	1	1		

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	2	ND	2	ND	2				
cis-1,3-Dichloropropene	ND	2	ND	2	ND	2				
Ethylbenzene	ND	1	ND	1	ND	1				
2-Hexanone	ND	2	ND	2	ND	2				
Methyl Acetate	ND	2	ND	2	ND	2				
Methylcyclohexane	ND	2	ND	2	ND	2				
Methylene Chloride	ND	2	ND	2	ND	2				
4-Methyl-2-Pentanone	ND	2	ND	2	ND	2				
Styrene	ND	2	ND	2	ND	2				
Isopropylbenzene	ND	2	ND	2	ND	2				
4-Isopropyltoluene	ND	2	ND	2	ND	2				
1,1,2,2-Tetrachloroethane	ND	2	ND	2	ND	2				
Tetrachloroethene	35	2	15	2	18	2				
Toluene	ND	1	ND	1	ND	1				
1,2,4-Trichlorobenzene	ND	2	ND	2	ND	2				
1,1,1-Trichloroethane	ND	2	ND	2	ND	2				
1,1,2-Trichloroethane	ND	2	ND	2	ND	2				
Trichloroethene	ND	2	ND	2	ND	2				
Trichlorofluoromethane	ND	2	ND	2	ND	2				
1,1,2-Trichlorotrifluoroethane	ND	2	ND	2	ND	2				
Vinyl Chloride	ND	5	ND	5	ND	5				
Total Xylenes	ND	1	ND	1	ND	1				

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	107	108	110		
1,2-Dichloroethane-d4	125	129	102		
Toluene-D8	89	90	100		
4-Bromofluorobenzene	91	89	84		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

July 15, 2007

ASTech Environmental

25742 Calle Ricardo
San Juan Capistrano CA 92675

Dear Andy:

Enclosed please find the report on the soil vapor investigation performed July 11, 2007 at Foss Plating, 8140 Secura Way in Santa Fe Springs. The report consists of one bound and one unbound copy with the following sections:

- Soil Vapor technical approach with results and discussion
- Spreadsheet of results
- Data in LARWQCB format
- QA/QC in LARWQCB format.
- Chromatograms (unbound copy only).

If you have any questions, please do not hesitate to call.

Sincerely,

Raphe Pavlick
Director

Post Office Box 91740, Los Angeles, CA 90009
Phone (310)823-6661 FAX (310)822-6668(or 6661) Email: HydroGeoSpectrum@aol.com

SOIL VAPOR TECHNICAL APPROACH

Pre-installed nested probes at depths of 5-15 feet bgs were sampled according to the following protocol:
The tubing exiting the surface of the ground is connected to a glass sampling bulb fitted with Teflon stopcocks and a viton rubber sampling port. This bulb is connected in turn to a vacuum gauge, flowmeter, and portable sampling pump. Initially both stopcocks are closed, and the absence of flow and the presence of a slight vacuum is noted. This demonstrates that the sampling train on the far end of the bulb is leak-tight. Then the first stopcock (pump end) is opened; the absence of flow demonstrates that the sampling bulb itself is leaktight. The ground end of the bulb is then opened, and a flow of 150 ml/min is maintained for seven to ten purge volumes. During the sampling isobutane-containing foam is spread near the sampling train. Any trace of isobutane detected in the sample indicates the intrusion of ambient air into the sampling train, invalidating the results of that sample. No such leaks were detected with any of the samples. The stopcocks were then closed (pump end first), and the sample retained in the container. A blower sample was taken 15 minutes after turning on the system; a flow of 500 ml/min was maintained for two minutes to ensure that the ambient air in the bulb had been flushed and replaced with blower effluent. Approximately 25 NG each of deutero-chloroform, deutero-acetone, deuterated-methylene chloride, deuterated-toluene and deutero-benzene were added through the septum into the bulb. The recovery of these isotopically-labeled surrogate compounds demonstrates that the bulbs have remained leak-free up until the actual analysis. A recovery of 90% is desirable; a recovery of less than 75% invalidates the sample results. These bulbs were then delivered to the mobile laboratory for analysis by GCMS.

The analyses of the soil vapor samples proceeded as follows. A 1 ml aliquot of soil vapor was withdrawn from each bulb and injected into a Hewlett-Packard model 5890 or 6890 gas chromatograph interfaced to a Hewlett-Packard model 5972 or 5973 mass spectrometer. Chromatography was performed in such a way that the combination of retention times and mass fragmentation allowed for the complete separation of all the target compounds. The mass spec was operated in *full scan* mode between 35 and 350 amu. This allows for the identification of any volatile organic species that may be present in the soil vapor.

The following laboratory QA/QC was performed. Initial five-point calibrations were run on March 8 and June 6, 2007. A laboratory control standard (LCS) from *Absolute Standards* Volatiles Mix was run at the end of the same day and at the end of the sampling days. The daily standard, run on the sampling day, was made from Supelco certified Custom 1 mix. The initial calibration was also run on this standard stock. The surrogate calibration curve was run on Aldrich certified material. All results were within the LAWQCB and HGS requirements.

Three notable additions to the LAWQCB requirements were deemed necessary:

- Five isotopically-labeled surrogates, D6-Benzene, D2-Methylene Chloride, D8-Toluene, D6-Acetone and D-Chloroform, were added to the collection vessel, a 125-ml glass bulb fitted with Teflon stopcocks and a viton rubber septum, to measure recovery percentages. The benzene, toluene, methylene chloride and chloroform surrogates are used to verify the recovery of the BTEX and chlorinated hydrocarbons respectively; a recovery of at least 90% is desired. The deuterated acetone is a measure of the possible presence of water vapor in the sample and general condition of the chromatographic system in terms of hydration; a recovery of 75% indicates acceptability of the complete sampling and analysis procedure; below this level, water vapor presence in the sampling line should be investigated or chromatographic dehydration procedures should be considered.

- Isopentane, isobutane, or isopropanol vapor was used to surround the sampling train at the surface to identify possible ambient intrusion into the sampling train or down the outside surface of the sampling tubing connected to the subsurface.

- At least 48 hours were allowed between installation and sampling/analysis to allow the subsurface to equilibrate back to undisturbed conditions.

RESULTS AND DISCUSSION

Low concentrations of chloroform (Cform) and tetrachloroethylene (PCE) were found in all of the samples.

Because of differences in rounding philosophies between QuattraPro (Water Board forms) and Excel (spreadsheet summary), occasionally a difference in the decimal digit between the two will be noted; these differences are insignificant and should cause no concern.

Target compounds include all those listed on the initial calibration spreadsheet; no Tentatively Identified Compounds (TIC's) were detected.

All QA/QC requirements of both HydroGeoSpectrum (HGS) and LARWQCB were met.

Soil Vapor (µg/L)

LOCATION-depth(5ft)	Date Sampled	Cform µg/L	PCE µg/L	VOC µg/L
SV1-5	11-Jul-07	2.3	4.2	N
SV1-10	11-Jul-07	2.3	4	N
SV1-15	11-Jul-07	5.4	3.8	N
SV2-5	11-Jul-07	3.6	20	N
SV2-10	11-Jul-07	1.7	8.6	N
SV2-15	11-Jul-07	3.4	14	N
SV3-10	11-Jul-07	2	23	N

Cform = Chloroform VOC = Volatile Organic Compound (other) N = < 0.5 µg/L
PCE = Tetrachloroethylene

DATA

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/ASTech
ANALYST: Raphe Pavlick
NORMAL INJECTION VOLUME 1 ml

LAB NAME: HydroGeoSpectrum (HGS)
COLLECTOR: Raphe Pavlick

DATE: 11 JUL 2007
INSTRUMENT ID 2415A8201

Sample ID:		SV1	SV1	SV1
		WOB2355-08870	WOB2356-08871	WOB2357-08872
Sampling Depth (ft)		5	10	15
Purge Volume (ml)	NA	1650	1950	2250
Vacuum	NO	NO	NO	NO
Sampling Time	1203	1205	1207 A	1209
Injection Time	1428	1311	1327	1342
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Chloroform	MS	NONE DETECTED			8.04	5163	2.3	8.02	5092	2.2	8.03	11975	5.3
Tetrachloroethene	MS				9.96	6540	4.2	9.96	6237	4.0	9.96	5882	3.8
Deutero-chloroform	MS	8.02	59910	104%	8.03	60583	105%	8.00	47103	82%	8.02	57989	101%
D6-BENZENE	MS	8.43	130856	81%	8.44	134758	83%	8.42	131240	81%	8.43	176335	109%
D6-ACETONE	MS	6.95	92488	124%	7.00	84527	113%	6.95	83197	111%	6.96	86965	116%
D2-Dichloromethane	MS	6.91	47451	102%	6.92	52857	114%	6.29	57571	124%	6.79	44203	95%
D8-TOLUENE	MS	9.56	91648	79%	9.56	102294	88%	9.56	102949	88%	9.55	78096	67%

Total Number of Peaks by GCMS: 0 + Surrogates | 2 + Surrogates | 2 + Surrogates | 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/ASTech
ANALYST: Raphe Pavlick
NORMAL INJECTION VOLUME 1 ml

LAB NAME: HydroGeoSpectrum (HGS)
COLLECTOR: Raphe Pavlick

DATE: 11 JUL 2007
INSTRUMENT ID 2415A8201

Sample ID:	SV1 WOB2358-08871	SV1 WOB2356-08871	SV1 WOB2356B-08871
Sampling Depth (ft)	10 P3	10	10 P22
Purge Volume (ml)	450	1950	3900
Vacuum	NO	NO	NO
Sampling Time	1159	1207 A	1218
Injection Time	1356	1327	1411
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Chloroform	MS	8.05	2536	1.1	8.02	5092	2.2	7.99	4780	2.1			
Tetrachloroethene	MS	9.98	2611	1.6	9.96	6237	4.0	9.96	5871	3.7			
Deutero-chloroform	MS	8.04	57836	100%	8.00	47103	82%	7.97	59920	104%			
D6-BENZENE	MS	8.45	175957	109%	8.42	131240	81%	8.41	122961	76%			
D6-ACETONE	MS	6.99	86989	116%	6.95	83197	111%	6.94	92088	123%			
D2-Dichloromethane	MS	6.43	47486	102%	6.29	57571	124%	5.85	49570	107%			
D8-TOLUENE	MS	9.58	87614	75%	9.56	102949	88%	9.56	90432	77%			

Total Number of Peaks by GCMS: 2 + Surrogates | 2 + Surrogates | 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/ASTech
LAB NAME: HydroGeoSpectrum (HGS)
DATE: 11 JUL 2007
ANALYST: Raphe Pavlick
COLLECTOR: Raphe Pavlick
INSTRUMENT ID 2415A8201
NORMAL INJECTION VOLUME 1 ml

Sample ID:	SV2	SV2	SV2	SV3
	VOE6442-19301	VOE6443-19302	VOE6444-19303	VOE6445-19304
Sampling Depth (ft)	5	10	15	10
Purge Volume (ml)	1650	1950	1650	1950
Vacuum	NO	NO	NO	NO
Sampling Time	1150 X	1152 S	1154	1208
Injection Time	1330	1344	1359	1413
Injection Volume	1ml	1ml	1ml	1ml
Dilution Factor	1	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Chloroform	MS	5.28	20095	3.5	5.20	9619	1.7	5.17	19001	3.3	5.20	10950	1.9
Tetrachloroethene	MS	9.82	60813	19.5	9.83	26717	8.5	9.83	43271	13.8	9.81	70634	22.6
Deutero-chloroform	MS	5.25	120719	96%	5.20	124838	99%	5.17	115019	91%	5.18	109987	87%
D6-BENZENE	MS	7.54	226938	108%	7.53	236470	112%	7.52	221380	105%	7.52	210924	100%
D6-ACETONE	MS	3.18	122890	101%	3.00	138642	114%	2.92	129976	107%	2.97	123525	101%
D2-Dichloromethane	MS	3.07	77473	102%	2.89	80843	106%	2.80	78776	103%	2.85	71600	94%
D8-TOLUENE	MS	10.40	181096	106%	10.41	178524	105%	10.40	153691	90%	10.42	154139	90%

Total Number of Peaks by GCMS: 2 + Surrogates | 2 + Surrogates | 2 + Surrogates | 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

QA/QC

INITIAL CALIBRATION BY FULL SCAN MASS SPEC

LAB NAME: HydroGeoSpectrum DATE: 08 March 2007

ANALYST:Raphe Pavlick STD LOT#:ULTRA CA2337A INSTRUMENT ID:2415A8201

Calibration Files
500 =VOE5917.D 1500 =VOE5916.D 20 =VOE5919.D
5 =VOE5920.D 50 =VOE5918.D

		Compound	500	1500	20	5	50	Avg		%RSD
1)		Vinyl Chloride	3.458	3.419	2.933	3.408	2.828	3.209	E2	9.44
2)		Bromomethane	3.220	3.227	4.147	5.248	3.824	3.933	E2	21.25
3)		Chloroethane	1.138	0.856	1.268	1.181	1.195	1.128	E3	14.09
4)		1,1-Dichloroethene	2.210	2.274	2.504	2.268	2.024	2.256	E3	7.60
5)		Acetone	0.998	1.256	1.075	1.334	0.911	1.115	E3	15.84
6)		Methylene Chloride	2.526	2.864	2.992	2.392	2.452	2.645	E3	10.07
7)		1,2-Dichloroethene (t	5.314	6.190	6.168	5.660	5.052	5.677	E3	8.93
8)		1,1-Dichloroethane	5.208	4.426	5.407	6.115	4.593	5.150	E3	13.15
9)		Chloroform	5.336	5.516	6.089	5.696	5.415	5.611	E3	5.34
10)		1,2-Dichloroethane	3.435	3.412	4.077	4.192	3.536	3.730	E3	10.03
11)		2-Butanone	3.508	3.107	4.617	3.175	3.399	3.561	E3	17.19
12)		1,1,1-Trichloroethane	5.014	4.770	6.321	5.071	5.008	5.237	E3	11.79
13)		Carbon Tetrachloride	3.826	2.740	3.805	3.798	3.370	3.508	E3	13.39
14)		Benzene	6.655	7.883	8.437	7.910	7.216	7.620	E3	9.08
15)		Trichloroethene	3.320	3.501	4.147	3.780	3.646	3.679	E3	8.50
16)		1,2-Dichloropropane	2.959	3.210	3.506	3.226	3.091	3.198	E3	6.33
17)		Bromodichloromethane	4.936	4.623	5.741	5.159	5.101	5.112	E3	7.99
18)		cis-1,3-Dichloroprope	4.120	4.371	4.410	4.565	4.172	4.328	E3	4.20
19)		trans-1,3-Dichloropro	3.512	3.031	3.910	3.111	4.052	3.523	E3	13.02
[illegible])		1,1,2-Trichloroethane	2.767	2.332	3.600	3.428	3.107	3.047	E3	16.77
[illegible])		Dibromochloromethane	4.631	3.778	5.473	5.052	4.983	4.783	E3	13.31
22)		Bromoform	4.487	3.212	4.715	4.531	4.406	4.270	E3	14.10
23)		4-Methyl-2-Pentanone	6.389	5.883	8.102	6.812	7.137	6.865	E3	12.18
24)		Toluene	4.810	6.318	6.120	5.648	5.202	5.619	E3	11.15
25)		Tetrachloroethene	2.987	2.213	3.620	3.324	3.441	3.117	E3	17.83
26)		2-Hexanone	2.693	3.756	3.873	3.138	2.949	3.282	E3	15.63
27)		Chlorobenzene	6.432	7.842	8.589	7.710	7.328	7.580	E3	10.40
28)		Ethylbenzene	3.213	4.297	4.505	3.987	3.587	3.918	E3	13.39
29)		Xylene (total)	1.155	1.434	1.490	1.329	1.203	1.322	E4	10.89
30)		Styrene	6.787	8.735	8.929	7.561	6.949	7.792	E3	12.76
31)		1,1,1,2-Tetrachloroet	3.530	2.813	4.305	4.034	3.852	3.707	E3	15.48
32)		1,1,2,2-Tetrachloroet	5.754	5.605	7.403	6.656	6.417	6.367	E3	11.42
33)		FREON-11	4.967	4.816	6.487	5.268	5.033	5.314	E3	12.71
34)	S	Deutero-chloroform	1.275	1.245	1.265			1.262	E3	1.22
35)		FREON-12	4.207	4.144	3.753	4.450	2.740	3.859	E2	17.46
36)		FREON-113	5.339	4.840	6.487	6.142	5.033	5.568	E3	12.84
38)	G	HYDROCARBONS	4.297	6.279	7.021	5.614	4.765	5.595	E2	19.74
39)	s	D6-BENZENE	2.145	2.122	2.063			2.110	E3	2.01
41)	S	D6-ACETONE	1.255	1.196	1.202			1.218	E3	2.65
42)	S	D2-Dichloromethane	7.574	7.754	7.529			7.619	E2	1.56
43)		Freon-22	2.659	2.867	2.801	2.575	2.964	2.773	E3	5.65
44)		Freon-141B	4.872	4.560	5.585	5.382	4.700	5.020	E3	8.83
53)	S	D8-TOLUENE	1.750	1.716	1.657			1.708	E3	2.78

Evaluate Initial LCS Report

Data File : C:\HPCHEM\1\DATA\VOE5922.D
Acq On : 8 Mar 2007 1:23 pm
Sample : LCS 50 ng
Misc : INITIAL 07MAR07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\030707.M (RTE Integrator)
Title : FULL SCAN
Last Update : Fri Mar 09 07:51:24 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	320.908	382.040		-19.0	20
2	Bromomethane	393.298	395.040		-0.4	20
3	Chloroethane	1.128	1.148	E3	-1.8	20
4	1,1-Dichloroethene	2.256	1.941	E3	14.0	15
6	Methylene Chloride	2.645	2.821	E3	-6.7	15
7	1,2-Dichloroethene (total)	5.677	5.963	E3	-5.0	15
8	1,1-Dichloroethane	5.150	5.749	E3	-11.6	15
9	Chloroform	5.611	6.025	E3	-7.4	15
10	1,2-Dichloroethane	3.730	3.921	E3	-5.1	15
12	1,1,1-Trichloroethane	5.237	5.714	E3	-9.1	15
13	Carbon Tetrachloride	3.508	3.463	E3	1.3	15
14	Benzene	7.620	7.990	E3	-4.9	15
15	Trichloroethene	3.679	3.996	E3	-8.6	15
16	1,2-Dichloropropane	3.198	3.478	E3	-8.8	15
17	Bromodichloromethane	5.112	5.817	E3	-13.8	15
18	cis-1,3-Dichloropropene	4.328	4.587	E3	-6.0	15
19	trans-1,3-Dichloropropene	3.523	3.415	E3	3.1	15
20	1,1,2-Trichloroethane	3.047	3.213	E3	-5.4	15
21	Dibromochloromethane	4.783	5.356	E3	-12.0	15
22	Bromoform	4.270	4.671	E3	-9.4	15
24	Toluene	5.619	5.761	E3	-2.5	15
25	Tetrachloroethene	3.117	3.311	E3	-6.2	15
27	Chlorobenzene	7.580	7.950	E3	-4.9	15
28	Ethylbenzene	3.918	3.854	E3	1.6	15
29	Xylene (total)	13.220	13.260	E3	-0.3	15
30	Styrene	7.792	7.895	E3	-1.3	15
31	1,1,1,2-Tetrachloroethane	3.707	4.053	E3	-9.3	15
32	1,1,2,2-Tetrachloroethane	6.367	6.893	E3	-8.3	15
33	FREON-11	5.314	5.410	E3	-1.8	20
35	FREON-12	385.878	323.440		16.2	20
36	FREON-113	5.568	5.410	E3	2.8	20
43	Freon-22	2.773	2.777	E3	-0.1	20
44	Freon-141B	5.020	4.634	E3	7.7	20

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\VOE6440.D
Acq On : 11 Jul 2007 1:05 pm
Sample : standard 50 ng
Misc : 11JULY07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\030707.M (RTE Integrator)
Title : FULL SCAN
Last Update : Sun Jun 24 15:28:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	320.908	338.620		-5.5	20
2	Bromomethane	393.298	391.100		0.6	20
3	Chloroethane	1.128	1.133	E3	-0.4	20
4	1,1-Dichloroethene	2.256	2.376	E3	-5.3	15
6	Methylene Chloride	2.645	2.755	E3	-4.2	15
7	1,2-Dichloroethene (total)	5.677	5.778	E3	-1.8	15
8	1,1-Dichloroethane	5.150	5.752	E3	-11.7	15
9	Chloroform	5.611	5.807	E3	-3.5	15
10	1,2-Dichloroethane	3.730	3.440	E3	7.8	15
11	2-Butanone	3.561	3.572	E3	-0.3	15
12	1,1,1-Trichloroethane	5.237	5.219	E3	0.3	15
13	Carbon Tetrachloride	3.508	3.943	E3	-12.4	15
14	Benzene	7.620	8.066	E3	-5.9	15
15	Trichloroethene	3.679	3.875	E3	-5.3	15
16	1,2-Dichloropropane	3.198	3.563	E3	-11.4	15
17	Bromodichloromethane	5.112	5.275	E3	-3.2	15
18	cis-1,3-Dichloropropene	4.328	4.147	E3	4.2	15
19	trans-1,3-Dichloropropene	3.523	3.542	E3	-0.5	15
20	1,1,2-Trichloroethane	3.047	3.195	E3	-4.9	15
21	Dibromochloromethane	4.783	5.151	E3	-7.7	15
22	Bromoform	4.270	4.585	E3	-7.4	15
23	4-Methyl-2-Pentanone	6.865	7.865	E3	-14.6	15
24	Toluene	5.619	5.625	E3	-0.1	15
25	Tetrachloroethene	3.117	3.350	E3	-7.5	15
26	2-Hexanone	3.282	3.005	E3	8.4	15
27	Chlorobenzene	7.580	7.765	E3	-2.4	15
28	Ethylbenzene	3.918	3.670	E3	6.3	15
29	Xylene (total)	13.220	12.765	E3	3.4	15
30	Styrene	7.792	6.994	E3	10.2	15
31	1,1,1,2-Tetrachloroethane	3.707	4.107	E3	-10.8	15
32	1,1,2,2-Tetrachloroethane	6.367	7.315	E3	-14.9	15
33	FREON-11	5.314	4.902	E3	7.8	20
35	FREON-12	385.878	401.520		-4.1	20
36	FREON-113	5.568	4.902	E3	12.0	20
43	Freon-22	2.773	2.358	E3	15.0	20
44	Freon-141B	5.020	4.598	E3	8.4	20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\VOE6446.D
Acq On : 11 Jul 2007 2:29 pm
Sample : LCS 50 ng
Misc : SFS/ASTECH 11JULY07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\030707.M (RTE Integrator)
Title : FULL SCAN
Last Update : Sun Jun 24 15:28:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	320.908	347.380		-8.2	25
2	Bromomethane	393.298	317.200		19.3	25
3	Chloroethane	1.128	0.914	E3	19.0	25
4	1,1-Dichloroethene	2.256	2.008	E3	11.0	20
6	Methylene Chloride	2.645	2.378	E3	10.1	20
7	1,2-Dichloroethene (total)	5.677	4.985	E3	12.2	20
8	1,1-Dichloroethane	5.150	4.506	E3	12.5	20
9	Chloroform	5.611	4.834	E3	13.8	20
10	1,2-Dichloroethane	3.730	3.079	E3	17.5	20
12	1,1,1-Trichloroethane	5.237	4.334	E3	17.2	20
13	Carbon Tetrachloride	3.508	3.855	E3	-9.9	20
14	Benzene	7.620	6.733	E3	11.6	20
15	Trichloroethene	3.679	3.251	E3	11.6	20
16	1,2-Dichloropropane	3.198	2.877	E3	10.0	20
17	Bromodichloromethane	5.112	4.385	E3	14.2	20
18	cis-1,3-Dichloropropene	4.328	4.139	E3	4.4	20
19	trans-1,3-Dichloropropene	3.523	3.790	E3	-7.6	20
20	1,1,2-Trichloroethane	3.047	2.875	E3	5.6	20
21	Dibromochloromethane	4.783	4.138	E3	13.5	20
22	Bromoform	4.270	3.544	E3	17.0	20
24	Toluene	5.619	4.951	E3	11.9	20
25	Tetrachloroethene	3.117	2.907	E3	6.7	20
27	Chlorobenzene	7.580	6.088	E3	19.7	20
28	Ethylbenzene	3.918	3.551	E3	9.4	20
29	Xylene (total)	13.220	10.607	E3	19.8	20
30	Styrene	7.792	6.451	E3	17.2	20
31	1,1,1,2-Tetrachloroethane	3.707	3.063	E3	17.4	20
32	1,1,2,2-Tetrachloroethane	6.367	5.614	E3	11.8	20
33	FREON-11	5.314	5.044	E3	5.1	25
35	FREON-12	385.878	405.120		-5.0	25
36	FREON-113	5.568	5.044	E3	9.4	25
43	Freon-22	2.773	2.909	E3	-4.9	25
44	Freon-141B	5.020	4.363	E3	13.1	25

INITIAL CALIBRATION BY FULL SCAN MASS SPEC

LAB NAME: HydroGeoSpectrum DATE: June 6, 2007

ANALYST:Raphe Pavlick STD LOT#:ULTRA CA2337a INSTRUMENT ID:2415A8201-2

Calibration Files
500 =WOB2222.D 1000 =WOB2221.D 20 =WOB2224.D
100 =WOB2223.D 5 =WOB2225.D

		Compound	500	1000	20	100	5	Avg		%RSD	AccRge
1)		Vinyl Chloride	1.481	1.649	1.932	2.681	2.017	1.952	E3	23.61	30
2)		Bromomethane	1.876	3.295	2.117	2.781	2.466	2.507	E2	22.29	30
3)		Chloroethane	4.495	5.071	5.567	8.032	6.124	5.858	E2	23.16	30
4)		1,1-Dichloroethene	1.885	2.658	2.532	2.544	2.357	2.395	E3	12.73	20
6)		Methylene Chloride	1.938	2.264	2.353	2.792	2.129	2.295	E3	13.88	20
7)		1,2-Dichloroethene (c	4.834	5.532	5.251	6.716	4.586	5.384	E3	15.41	20
8)		1,1-Dichloroethane	4.646	5.510	5.877	5.781	4.475	5.258	E3	12.43	20
9)		Chloroform	2.306	2.286	2.276	2.415	1.915	2.239	E3	8.47	20
10)		1,2-Dichloroethane	2.076	2.801	2.048	2.774	1.888	2.318	E3	18.77	20
12)		1,1,1-Trichloroethane	3.306	4.356	2.889	3.855	2.938	3.469	E3	18.13	20
13)		Carbon Tetrachloride	2.715	2.647	2.241	3.040	2.701	2.669	E3	10.67	20
14)		Benzene	4.940	4.546	5.096	5.649	4.458	4.938	E3	9.68	20
15)		Trichloroethene	1.640	1.634	1.837	2.438	2.154	1.940	E3	18.00	20
16)		1,2-Dichloropropane	4.643	5.293	5.842	5.717	4.453	5.190	E3	12.02	20
17)		Bromodichloromethane	2.306	2.502	1.850	2.408	1.915	2.196	E3	13.46	20
18)		cis-1,3-Dichloroprope	2.533	2.787	2.834	2.991	2.887	2.806	E3	6.07	20
19)		trans-1,3-Dichloropro	2.197	2.550	2.512	2.717	2.284	2.452	E3	8.57	20
[illegible])		1,1,2-Trichloroethane	1.518	1.583	1.780	2.282	1.479	1.728	E3	19.12	20
21)		Dibromochloromethane	1.212	1.913	1.402	1.808	1.557	1.578	E3	18.22	20
22)		Bromoform	1.232	1.395	0.955	1.450	1.071	1.221	E3	17.18	20
24)		Toluene	3.737	4.355	4.430	6.141	4.833	4.699	E3	19.08	20
25)		Tetrachloroethene	1.228	1.393	1.396	1.881	1.847	1.549	E3	19.08	20
27)		Chlorobenzene	4.313	5.230	4.615	6.603	5.127	5.178	E3	17.01	20
28)		Ethylbenzene	2.065	2.825	2.683	3.555	2.883	2.802	E3	18.98	20
29)		Xylene (total)	0.724		0.942	1.150	0.908	0.931	E4	18.73	20
30)		Styrene	4.121		5.297	5.433	5.688	5.135	E3	13.53	20
31)		1,1,1,2-Tetrachloroet	1.791	1.777	1.411	2.083	2.013	1.815	E3	14.48	20
32)		1,1,2,2-Tetrachloroet	2.306	2.513	2.325	2.585	1.915	2.329	E3	11.19	20
33)		FREON-11	6.086	6.836	3.724	4.448	5.548	5.328	E2	23.46	30
34)	S	Deutero-chloroform	5.612	5.768	5.910			5.763	E2	2.59	25
35)		FREON-12	1.163	1.213	1.402	2.234	1.895	1.581	E3	29.45	30
36)		FREON-113	2.177	1.773	1.500	2.068	2.548	2.013	E3	19.82	30
43)		Freon-22	2.134	2.341	1.909	3.329	3.154	2.574	E3	24.55	30
44)		Freon-141B	1.187	1.045	1.135	1.550	1.742	1.332	E3	22.46	30
53)	S	D8-TOLUENE	1.163	1.180	1.159			1.167	E3	0.96	25

Evaluate Initial LCS Report

Data File : C:\HPCHEM\1\DATA\WOB2227.D
Acq On : 5 Jun 2007 12:58 pm
Sample : LCS 50 ng
Misc : 05JUNE07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N060507.M (RTE Integrator)
Title : FULL SCAN
Last Update : Thu Jun 07 11:34:00 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1.952	2.094	E3	-7.3	20
2	Bromomethane	250.683	220.760		11.9	20
3	Chloroethane	585.772	667.160		-13.9	20
4	1,1-Dichloroethene	2.395	2.563	E3	-7.0	15
6	Methylene Chloride	2.295	2.398	E3	-4.5	15
7	1,2-Dichloroethene (cis)	5.384	5.127	E3	4.8	15
8	1,1-Dichloroethane	5.258	4.488	E3	14.6	15
9	Chloroform	2.239	1.909	E3	14.7	15
10	1,2-Dichloroethane	2.318	2.194	E3	5.3	15
12	1,1,1-Trichloroethane	3.469	2.970	E3	14.4	15
13	Carbon Tetrachloride	2.669	2.286	E3	14.3	15
14	Benzene	4.938	5.267	E3	-6.7	15
15	Trichloroethene	1.940	1.922	E3	0.9	15
16	1,2-Dichloropropane	5.190	4.497	E3	13.4	15
17	Bromodichloromethane	2.196	1.909	E3	13.1	15
18	cis-1,3-Dichloropropene	2.806	2.840	E3	-1.2	15
19	trans-1,3-Dichloropropene	2.452	2.393	E3	2.4	15
20	1,1,2-Trichloroethane	1.728	1.840	E3	-6.5	15
21	Dibromochloromethane	1.578	1.452	E3	8.0	15
24	Toluene	4.699	4.543	E3	3.3	15
25	Tetrachloroethene	1.549	1.484	E3	4.2	15
27	Chlorobenzene	5.178	4.839	E3	6.5	15
28	Ethylbenzene	2.802	2.772	E3	1.1	15
29	Xylene (total)	9.309	9.936	E3	-6.7	15
30	Styrene	5.135	5.670	E3	-10.4	15
31	1,1,1,2-Tetrachloroethane	1.815	1.598	E3	12.0	15
32	1,1,2,2-Tetrachloroethane	2.329	2.132	E3	8.5	15
33	FREON-11	532.839	571.140		-7.2	20
35	FREON-12	1.581	1.800	E3	-13.9	20
36	FREON-113	2.013	1.912	E3	5.0	20
43	Freon-22	2.574	2.671	E3	-3.8	20
44	Freon-141B	1.332	1.452	E3	-9.0	20

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\WOB2353.D
Acq On : 11 Jul 2007 12:53 pm
Sample : STANDARD 50 ng
Misc : 11JULY07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N060507.M (RTE Integrator)
Title : FULL SCAN
Last Update : Wed Jul 11 13:10:16 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1.952	1.578	E3	19.2	20
2	Bromomethane	250.683	264.200		-5.4	20
3	Chloroethane	585.772	476.640		18.6	20
4	1,1-Dichloroethene	2.395	2.687	E3	-12.2	15
6	Methylene Chloride	2.295	2.390	E3	-4.1	15
7	1,2-Dichloroethene (cis)	5.384	5.612	E3	-4.2	15
8	1,1-Dichloroethane	5.258	5.788	E3	-10.1	15
9	Chloroform	2.239	2.038	E3	9.0	15
10	1,2-Dichloroethane	2.318	2.603	E3	-12.3	15
12	1,1,1-Trichloroethane	3.469	3.682	E3	-6.1	15
13	Carbon Tetrachloride	2.669	2.434	E3	8.8	15
14	Benzene	4.938	4.482	E3	9.2	15
15	Trichloroethene	1.940	2.132	E3	-9.9	15
16	1,2-Dichloropropane	5.190	5.692	E3	-9.7	15
17	Bromodichloromethane	2.196	2.011	E3	8.4	15
18	cis-1,3-Dichloropropene	2.806	2.502	E3	10.8	15
19	trans-1,3-Dichloropropene	2.452	2.567	E3	-4.7	15
20	1,1,2-Trichloroethane	1.728	1.961	E3	-13.5	15
21	Dibromochloromethane	1.578	1.690	E3	-7.1	15
24	Toluene	4.699	4.819	E3	-2.6	15
25	Tetrachloroethene	1.549	1.772	E3	-14.4	15
27	Chlorobenzene	5.178	5.315	E3	-2.6	15
28	Ethylbenzene	2.802	3.026	E3	-8.0	15
29	Xylene (total)	9.309	10.142	E3	-8.9	15
30	Styrene	5.135	5.896	E3	-14.8	15
31	1,1,1,2-Tetrachloroethane	1.815	1.609	E3	11.3	15
32	1,1,2,2-Tetrachloroethane	2.329	2.038	E3	12.5	15
33	FREON-11	532.839	523.660		1.7	20
35	FREON-12	1.581	1.742	E3	-10.2	20
36	FREON-113	2.013	2.125	E3	-5.6	20
43	Freon-22	2.574	2.552	E3	0.9	20
44	Freon-141B	1.332	1.558	E3	-17.0	20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\WOB2358.D
Acq On : 11 Jul 2007 2:45 pm
Sample : LCS 50 ng
Misc : SFS/ASTECH 11JULY07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

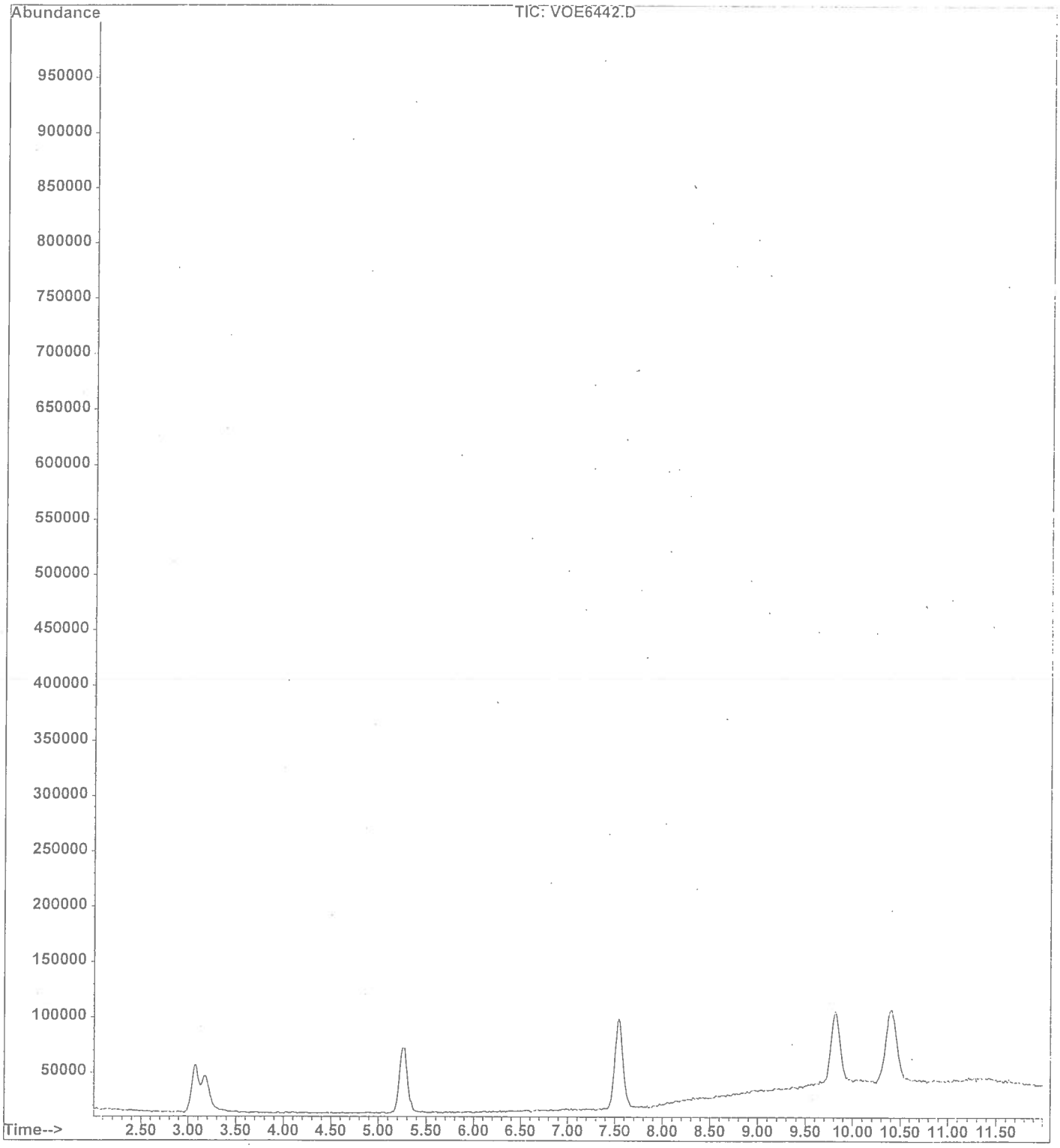
Method : C:\HPCHEM\1\METHODS\N060507.M (RTE Integrator)
Title : FULL SCAN
Last Update : Wed Jul 11 15:03:42 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

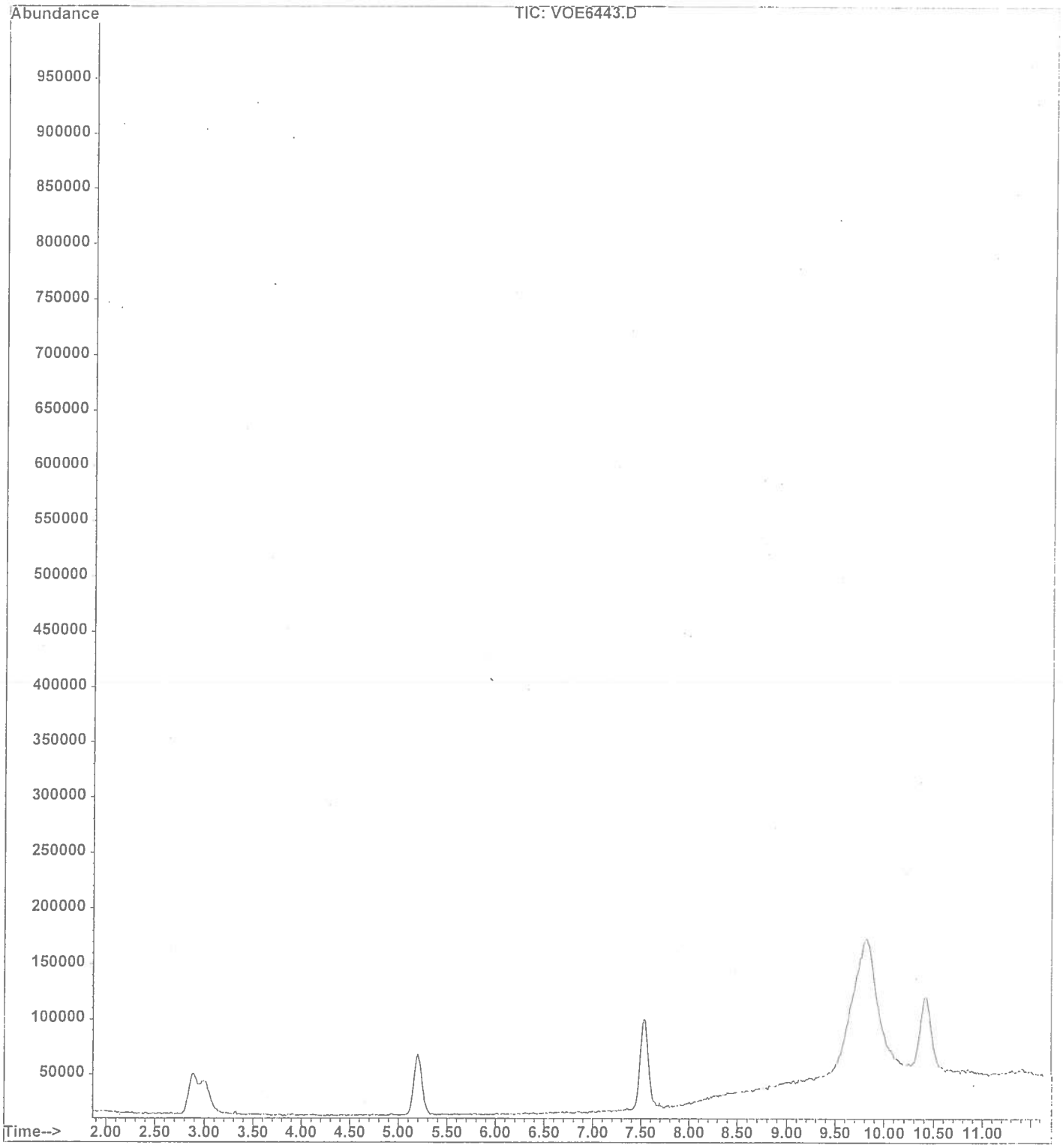
	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1.952	2.122	E3	-8.7	25
2	Bromomethane	250.683	241.560		3.6	25
3	Chloroethane	585.772	469.740		19.8	25
4	1,1-Dichloroethene	2.395	2.193	E3	8.4	20
6	Methylene Chloride	2.295	2.189	E3	4.6	20
7	1,2-Dichloroethene (cis)	5.384	5.040	E3	6.4	20
8	1,1-Dichloroethane	5.258	4.699	E3	10.6	20
9	Chloroform	2.239	2.385	E3	-6.5	20
10	1,2-Dichloroethane	2.318	2.538	E3	-9.5	20
12	1,1,1-Trichloroethane	3.469	3.121	E3	10.0	20
13	Carbon Tetrachloride	2.669	2.321	E3	13.0	20
14	Benzene	4.938	4.239	E3	14.2	20
15	Trichloroethene	1.940	1.995	E3	-2.8	20
16	1,2-Dichloropropane	5.190	4.688	E3	9.7	20
17	Bromodichloromethane	2.196	2.385	E3	-8.6	20
18	cis-1,3-Dichloropropene	2.806	2.756	E3	1.8	20
19	trans-1,3-Dichloropropene	2.452	2.329	E3	5.0	20
20	1,1,2-Trichloroethane	1.728	1.890	E3	-9.4	20
21	Dibromochloromethane	1.578	1.583	E3	-0.3	20
24	Toluene	4.699	4.519	E3	3.8	20
25	Tetrachloroethene	1.549	1.666	E3	-7.6	20
27	Chlorobenzene	5.178	4.985	E3	3.7	20
28	Ethylbenzene	2.802	2.849	E3	-1.7	20
29	Xylene (total)	9.309	10.314	E3	-10.8	20
30	Styrene	5.135	5.641	E3	-9.9	20
31	1,1,1,2-Tetrachloroethane	1.815	1.497	E3	17.5	20
32	1,1,2,2-Tetrachloroethane	2.329	2.385	E3	-2.4	20
33	FREON-11	532.839	455.220		14.6	25
35	FREON-12	1.581	1.497	E3	5.3	25
36	FREON-113	2.013	2.267	E3	-12.6	25
43	Freon-22	2.574	2.211	E3	14.1	25
44	Freon-141B	1.332	1.386	E3	-4.1	25

Chromatograms

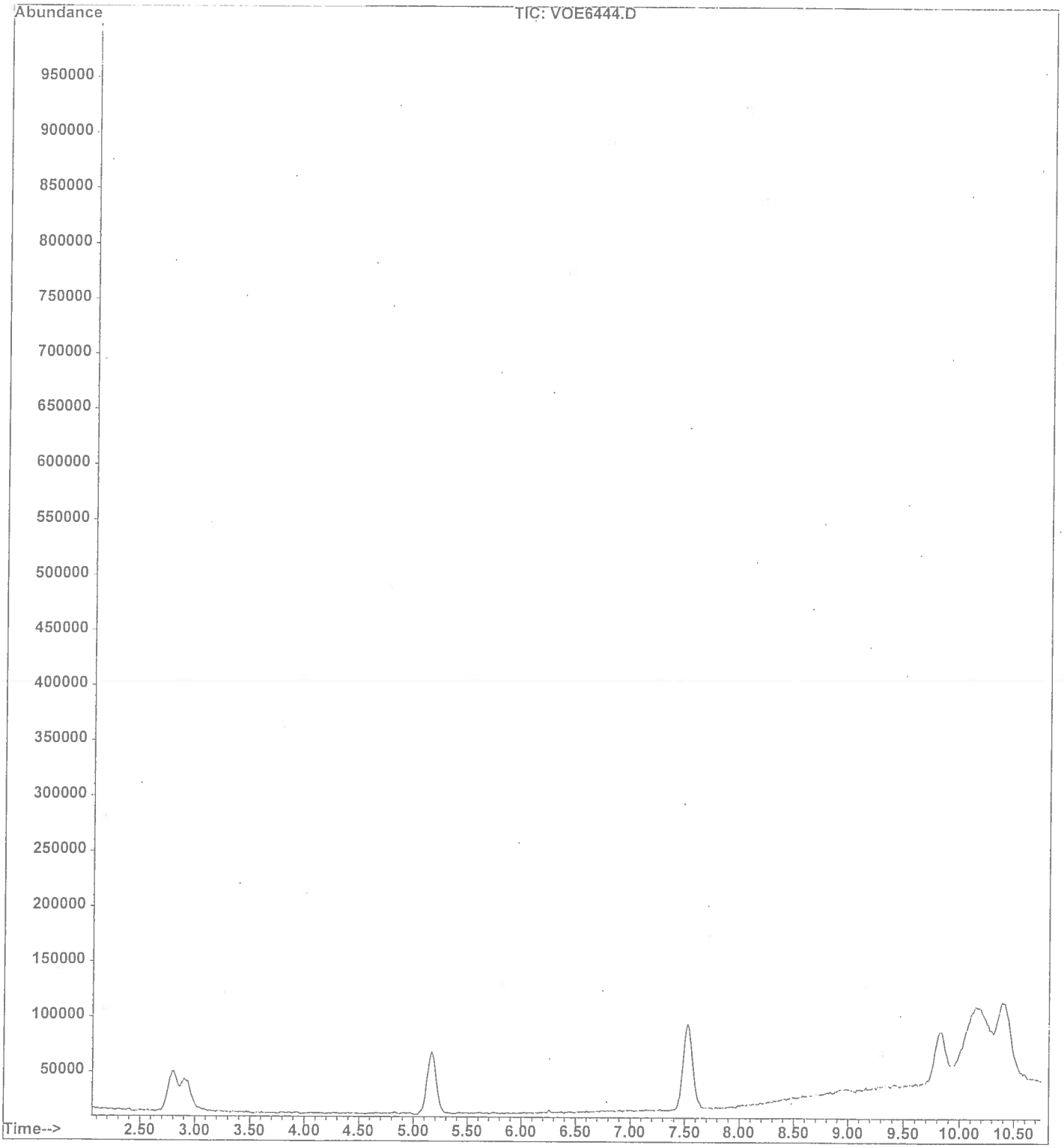
File : C:\HPCHEM\1\DATA\VOE6442.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 1:30 pm using AcqMethod 030707
Instrument : GC/MS Ins
Sample Name: SV2-19301-5
Misc Info : SFS/ASTECH 11JULY07 1150 X16
Vial Number: 1



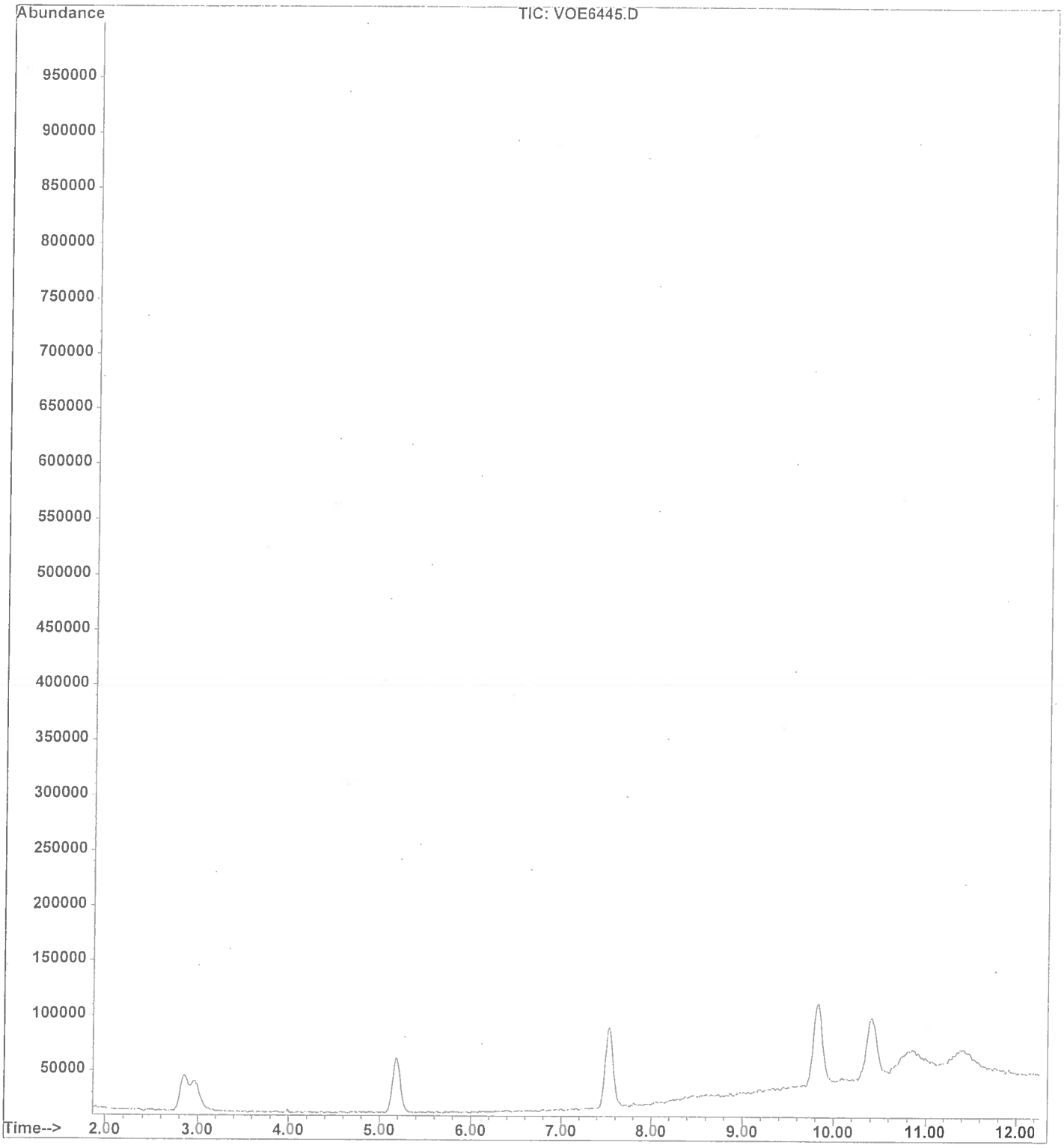
File : C:\HPCHEM\1\DATA\VOE6443.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 1:44 pm using AcqMethod 030707
Instrument : GC/MS Ins
Sample Name: SV2-19302-10
Misc Info : SFS/ASTECH 11JULY07 1152 S24
Vial Number: 1



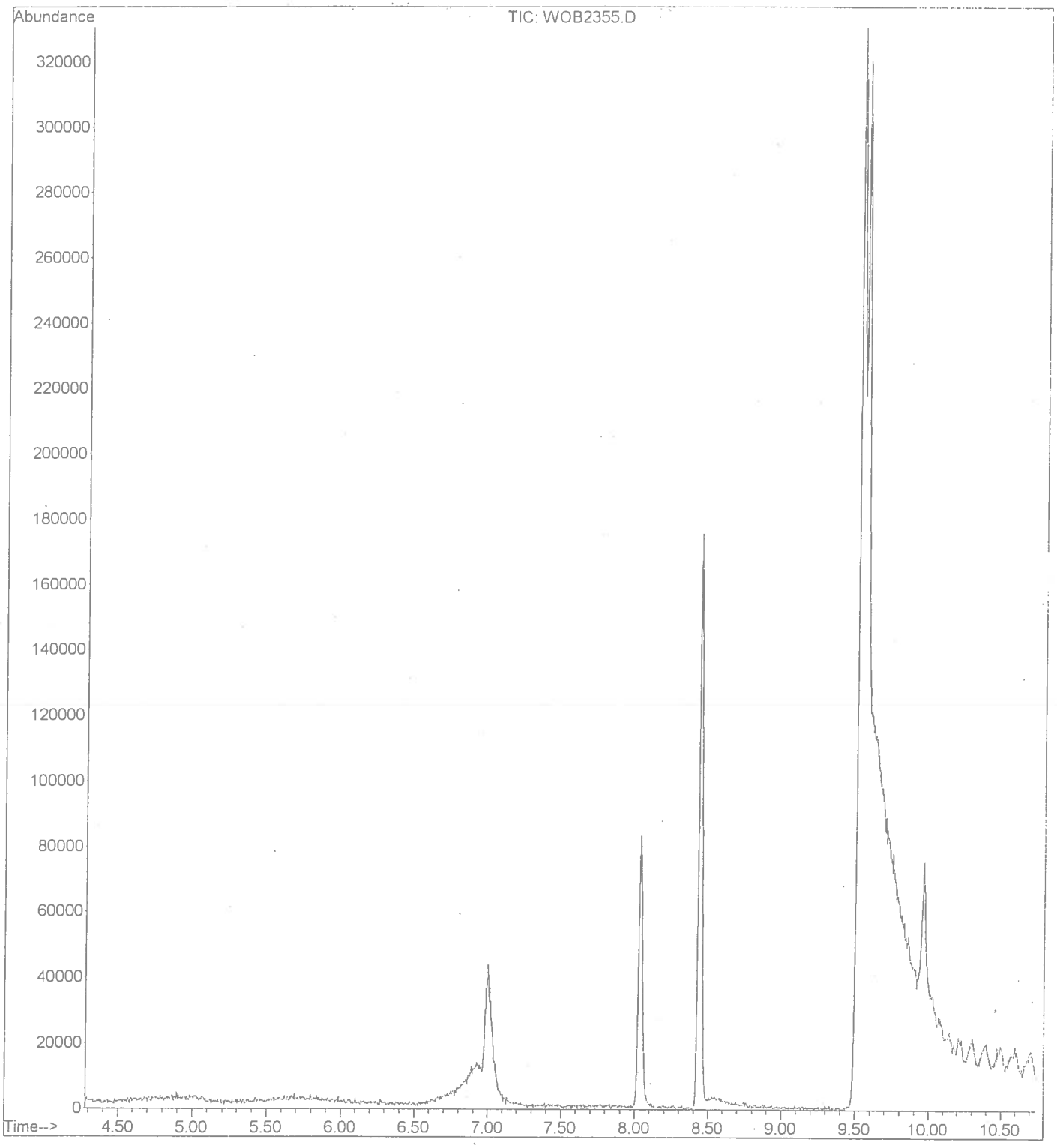
File : C:\HPCHEM\1\DATA\VOE6444.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 1:59 pm using AcqMethod 030707
Instrument : GC/MS Ins
Sample Name: SV2-19303-15
Misc Info : SFS/ASTECH 11JULY07 1154 A6
Vial Number: 1



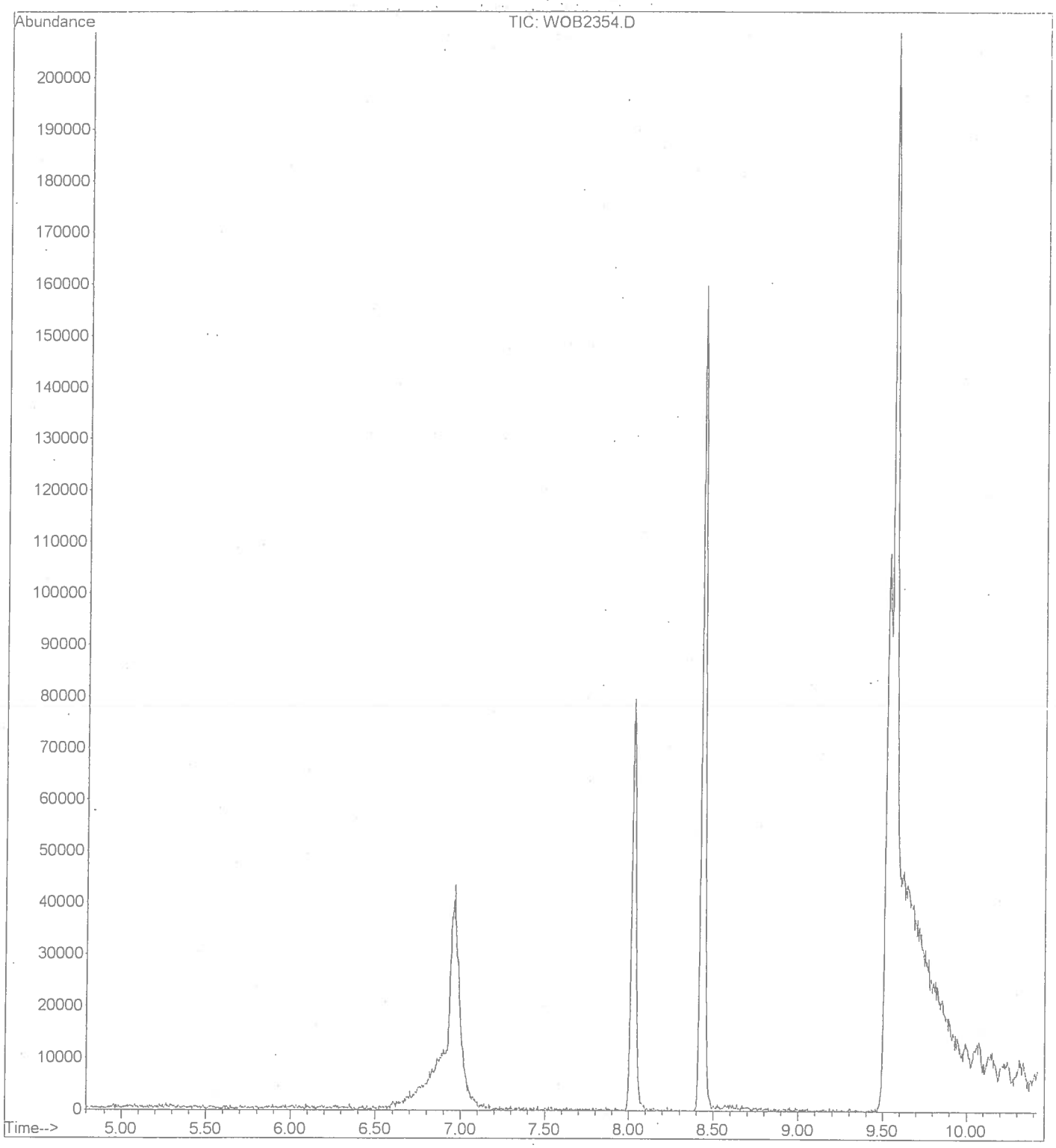
File : C:\HPCHEM\1\DATA\VOE6445.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 2:13 pm using AcqMethod 030707
Instrument : GC/MS Ins
Sample Name: SV3-19304-10
Misc Info : SFS/ASTECH 11JULY07 1208 Y8
Vial Number: 1



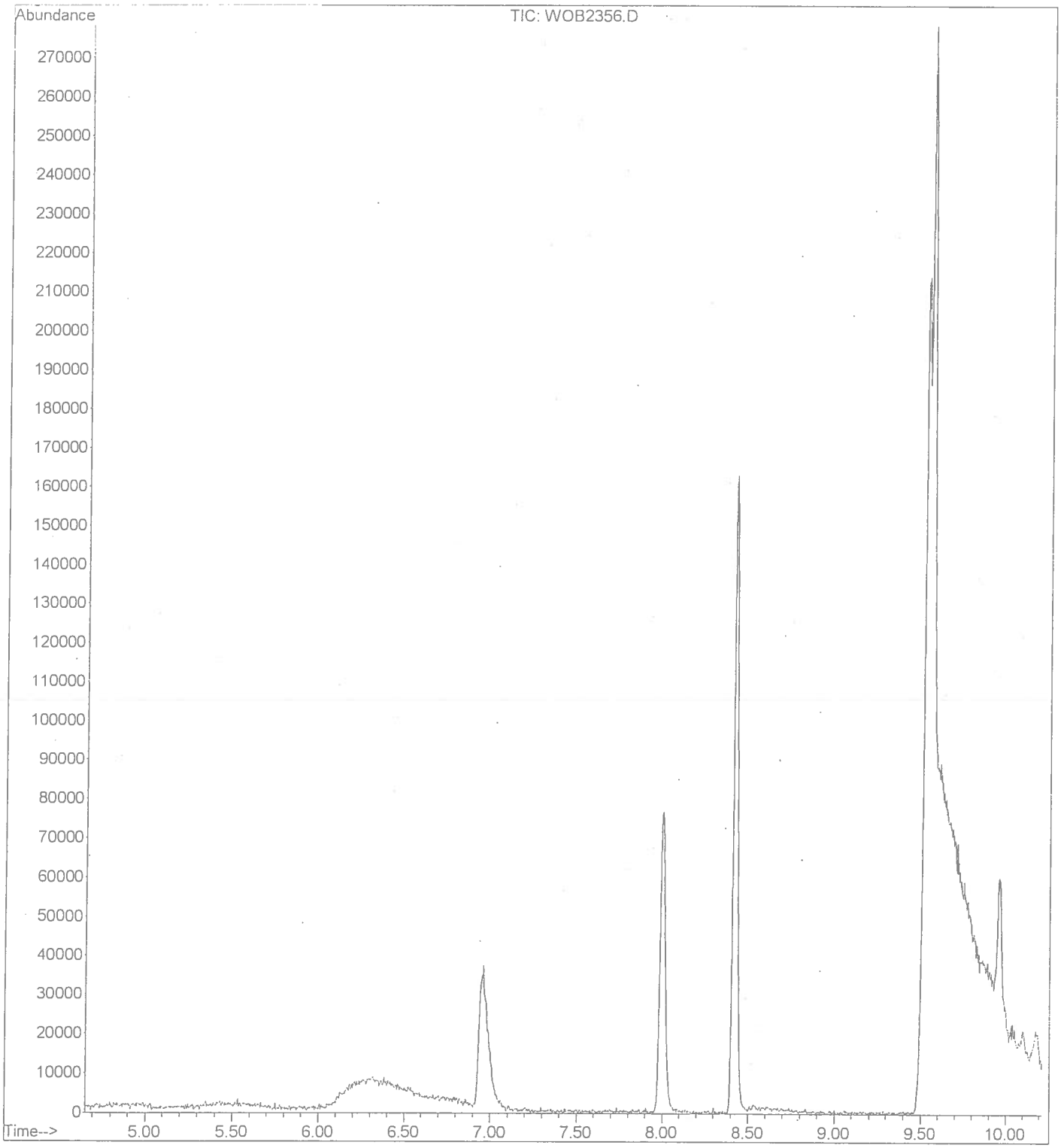
File : C:\HPCHEM\1\DATA\WOB2355.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 1:11 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV1-08870-5
Misc Info : SFS/ASTECH 11JULY07 1205 Y2
Vial Number: 1



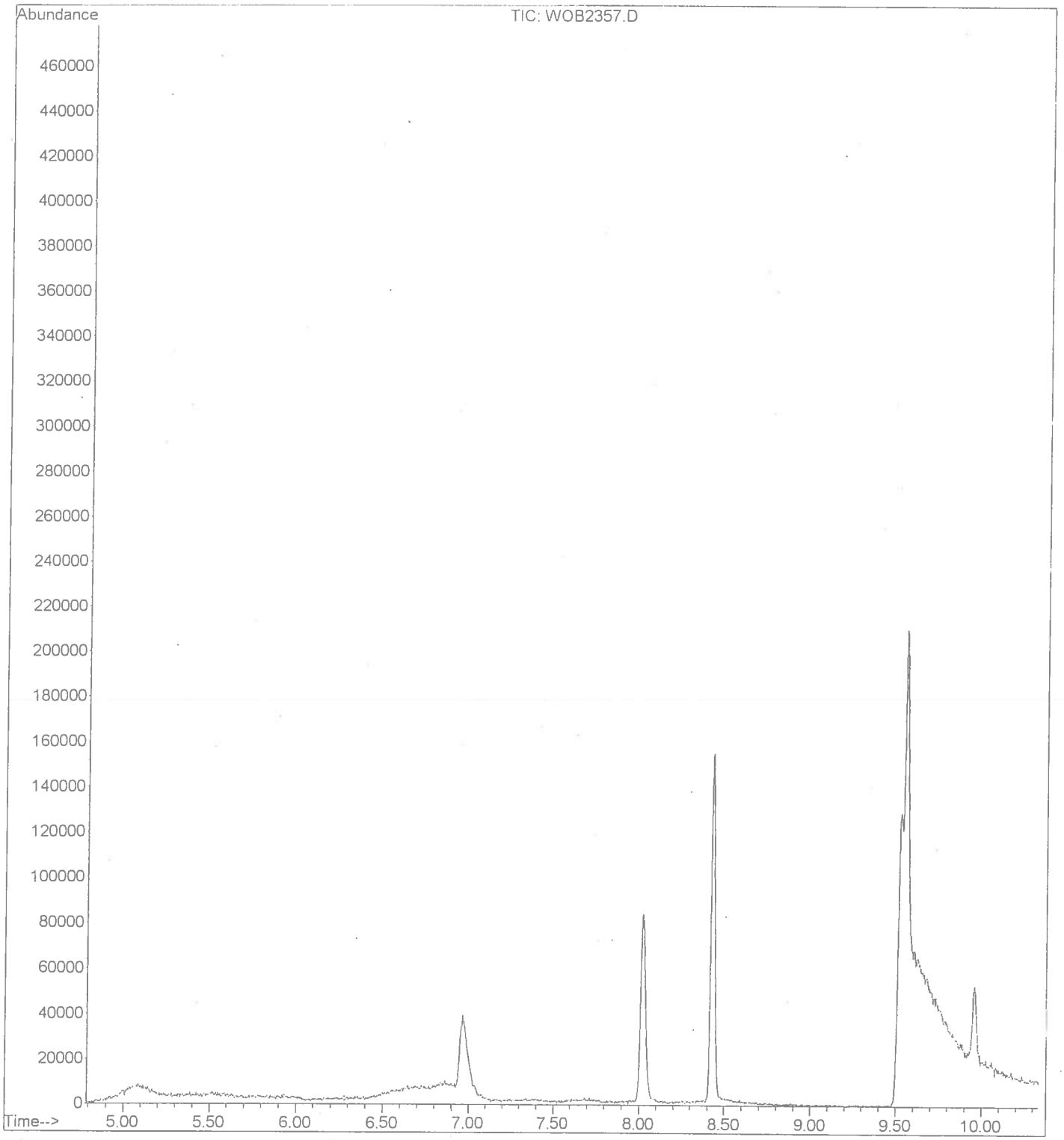
File : C:\HPCHEM\1\DATA\WOB2354.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 2:28 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: FIELD BLANK
Misc Info : SFS/ASTECH 11JULY07 1203 N1
Vial Number: 1



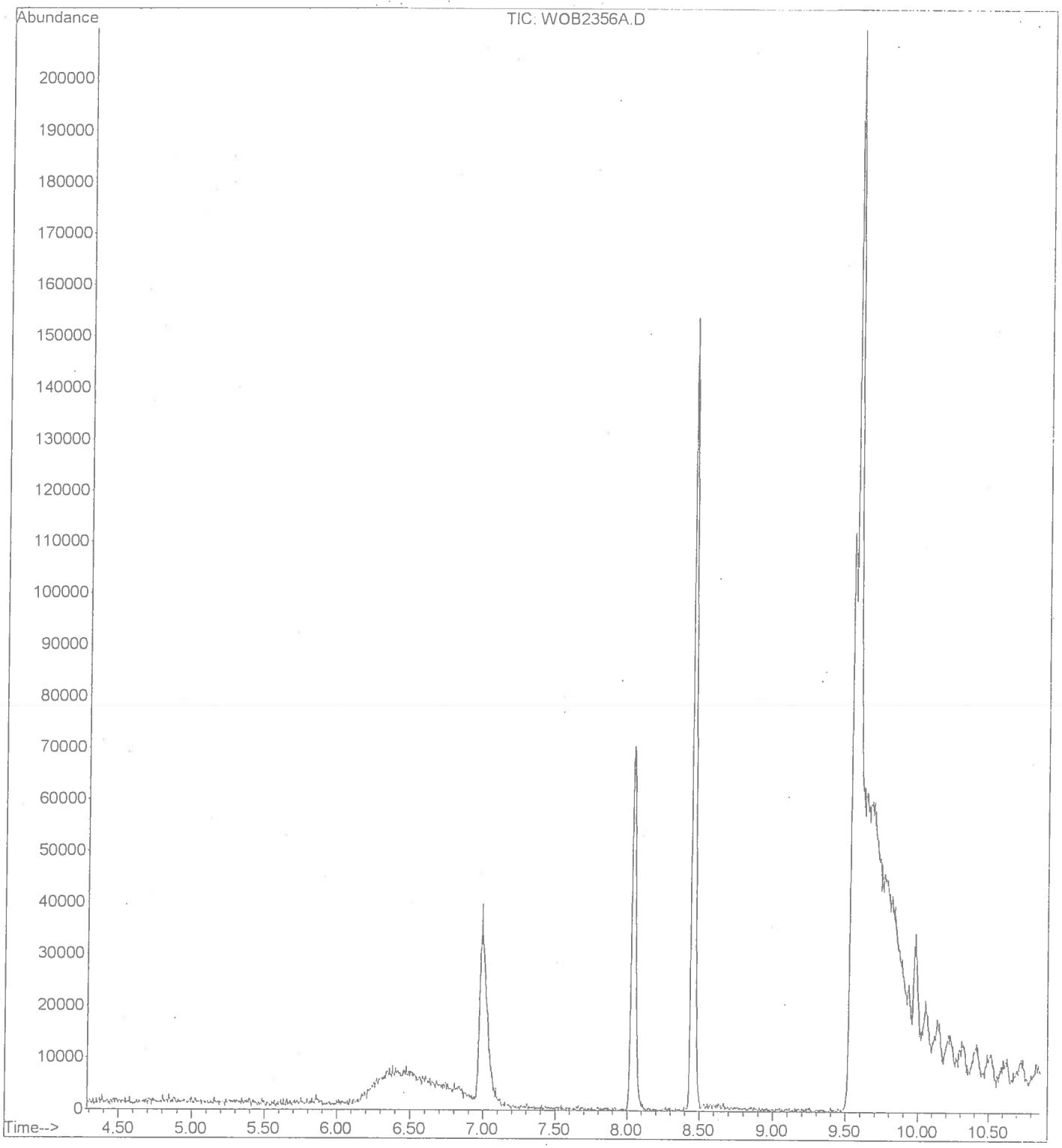
File : C:\HPCHEM\1\DATA\WOB2356.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 1:27 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV1-08871-10
Misc Info : SFS/ASTECH 11JULY07 1207 A24
Vial Number: 1



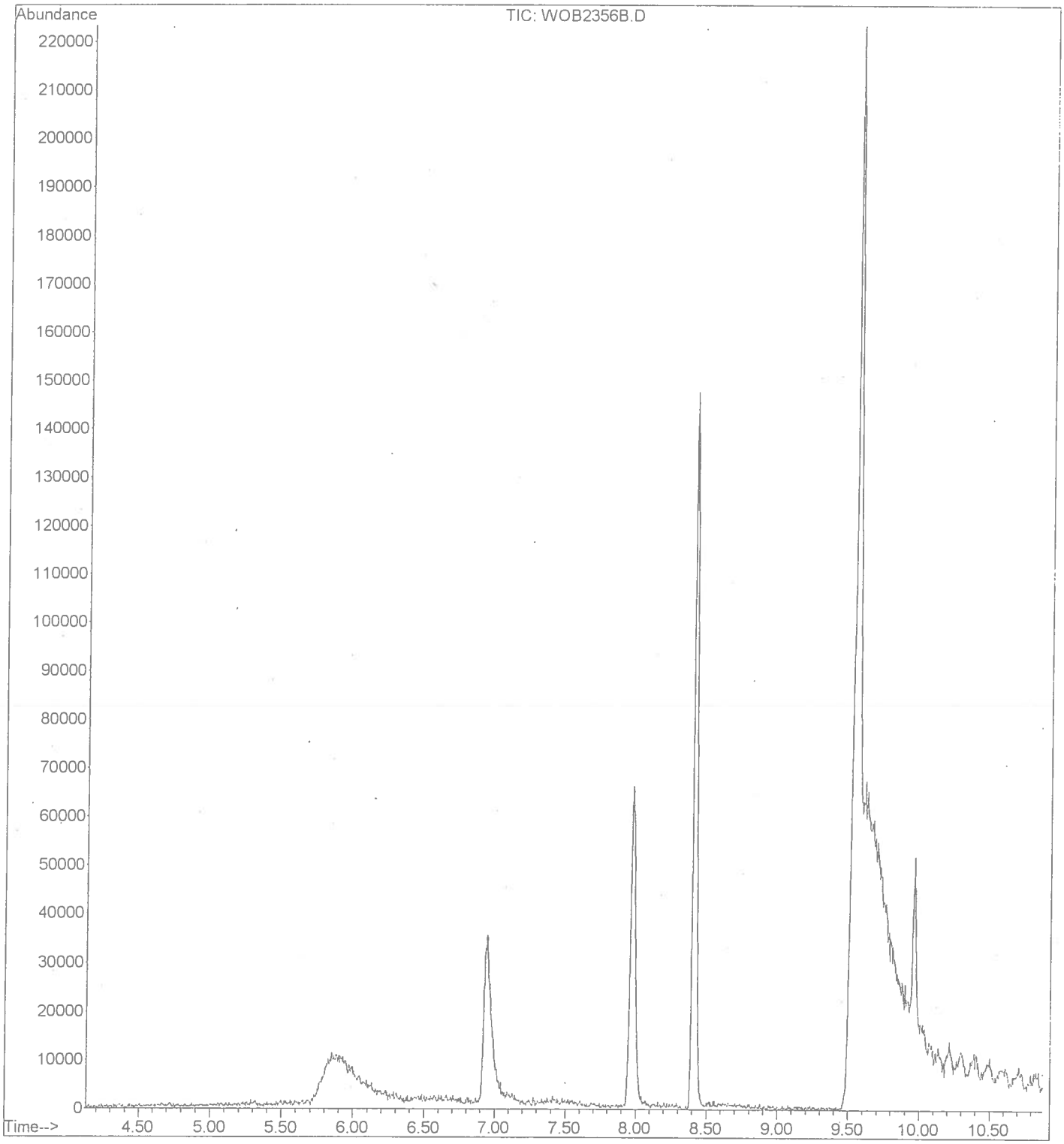
File : C:\HPCHEM\1\DATA\WOB2357.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 1:42 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV1-08872-15
Misc Info : SFS/ASTECH 11JULY07 1209 R8
Vial Number: 1



File : C:\HPCHEM\1\DATA\WOB2356A.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 1:56 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV1-08871-10 P3
Misc Info : SFS/ASTECH 11JULY07 1159 S6
Vial Number: 1



File : C:\HPCHEM\1\DATA\WOB2356B.D
Operator : Raphe HGS
Acquired : 11 Jul 2007 2:11 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV1-08871-10 P22
Misc Info : SFS/ASTECH 11JULY07 1218 F4
Vial Number: 1



SOIL VAPOR TECHNICAL APPROACH

Pre-installed nested probes at depths of 5-15 feet bgs were sampled according to the following protocol:
The tubing exiting the surface of the ground is connected to a glass sampling bulb fitted with Teflon stopcocks and a viton rubber sampling port. This bulb is connected in turn to a vacuum gauge, flowmeter, and portable sampling pump. Initially both stopcocks are closed, and the absence of flow and the presence of a slight vacuum is noted. This demonstrates that the sampling train on the far end of the bulb is leak-tight. Then the first stopcock (pump end) is opened; the absence of flow demonstrates that the sampling bulb itself is leaktight. The ground end of the bulb is then opened, and a flow of 150 ml/min is maintained for seven to ten purge volumes. During the sampling isobutane-containing foam is spread near the sampling train. Any trace of isobutane detected in the sample indicates the intrusion of ambient air into the sampling train, invalidating the results of that sample. No such leaks were detected with any of the samples. The stopcocks were then closed (pump end first), and the sample retained in the container. A blower sample was taken 15 minutes after turning on the system; a flow of 500 ml/min was maintained for two minutes to ensure that the ambient air in the bulb had been flushed and replaced with blower effluent. Approximately 25 NG each of deutero-chloroform, deutero-acetone, deuterated-methylene chloride, deuterated-toluene and deutero-benzene were added through the septum into the bulb. The recovery of these isotopically-labeled surrogate compounds demonstrates that the bulbs have remained leak-free up until the actual analysis. A recovery of 90% is desirable; a recovery of less than 75% invalidates the sample results. These bulbs were then delivered to the mobile laboratory for analysis by GCMS.

The analyses of the soil vapor samples proceeded as follows. A 1 ml aliquot of soil vapor was withdrawn from each bulb and injected into a Hewlett-Packard model 6890 gas chromatograph interfaced to a Hewlett-Packard model 5973 mass spectrometer. Chromatography was performed in such a way that the combination of retention times and mass fragmentation allowed for the complete separation of all the target compounds. The mass spec was operated in *full scan* mode between 35 and 350 amu. This allows for the identification of any volatile organic species that may be present in the soil vapor.

The following laboratory QA/QC was performed. An initial five-point calibration was run on June 6, 2007. A laboratory control standard (LCS) from *Absolute Standards* Volatiles Mix was run at the end of the same day and at the end of the sampling days. The daily standard, run on the sampling day, was made from Supelco certified Custom 1 mix. The initial calibration was also run on this standard stock. The surrogate calibration curve was run on Aldrich certified material. All results were within the LAWQCB and HGS requirements.

Three notable additions to the LAWQCB requirements were deemed necessary:

- Five isotopically-labeled surrogates, D6-Benzene, D2-Methylene Chloride, D8-Toluene, D6-Acetone and D-Chloroform, were added to the collection vessel, a 125-ml glass bulb fitted with Teflon stopcocks and a viton rubber septum, to measure recovery percentages. The benzene, toluene, methylene chloride and chloroform surrogates are used to verify the recovery of the BTEX and chlorinated hydrocarbons respectively; a recovery of at least 90% is desired. The deuterated acetone is a measure of the possible presence of water vapor in the sample and general condition of the chromatographic system in terms of hydration; a recovery of 75% indicates acceptability of the complete sampling and analysis procedure; below this level, water vapor presence in the sampling line should be investigated or chromatographic dehydration procedures should be considered.

- Isopentane, isobutane, or isopropanol vapor was used to surround the sampling train at the surface to identify possible ambient intrusion into the sampling train or down the outside surface of the sampling tubing connected to the subsurface.

- At least 48 hours were allowed between installation and sampling/analysis to allow the subsurface to equilibrate back to undisturbed conditions.

RESULTS AND DISCUSSION

Low concentrations of chloroform (Cform) and tetrachloroethylene (PCE) were found in most of the samples. Both 15-footers showed low flow conditions

SV4 is the designation for the location inside the pit; SV101 is the outside location behind the berm.

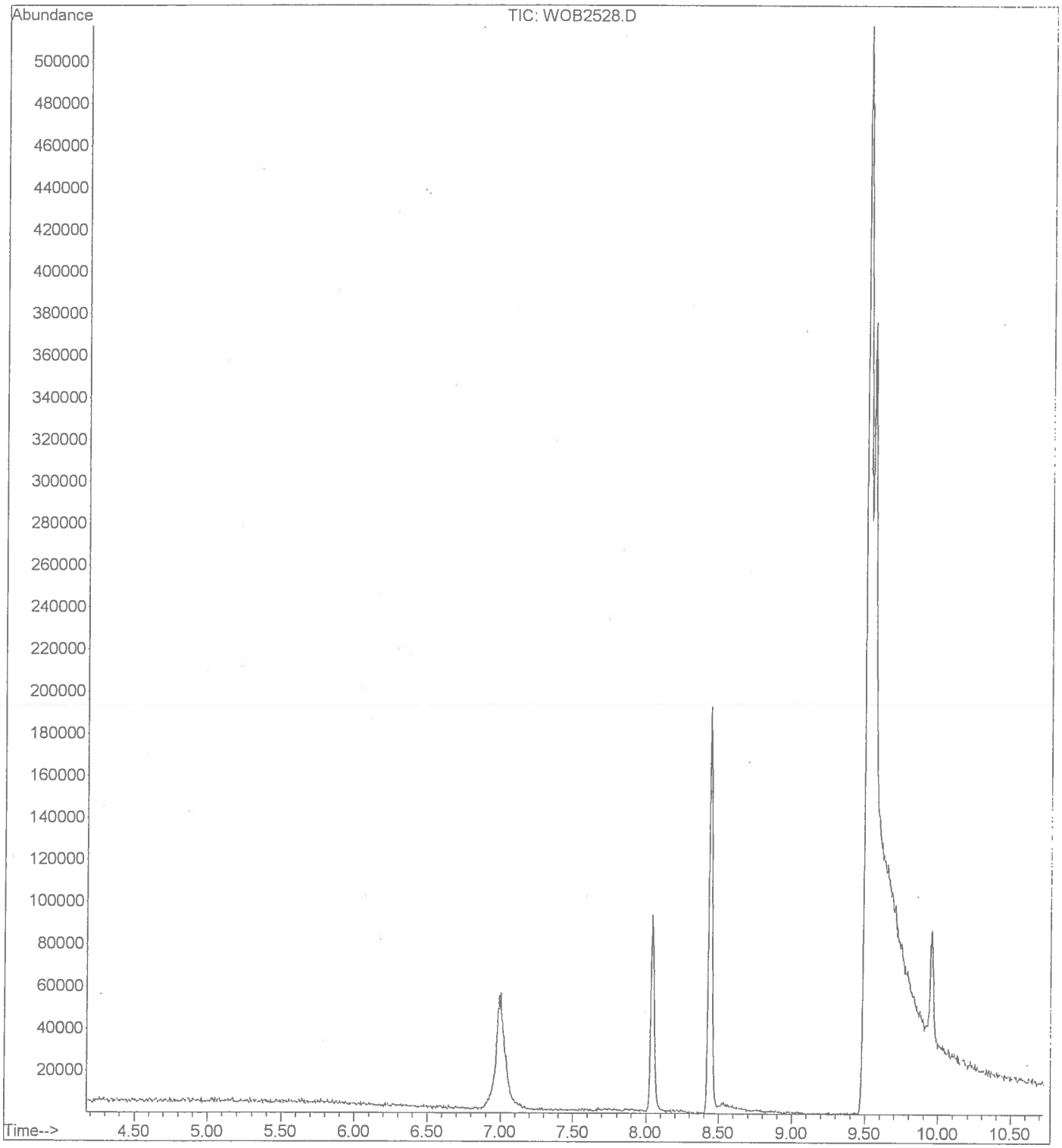
Because of differences in rounding philosophies between QuattraPro (Water Board forms) and Excel (spreadsheet summary), occasionally a difference in the decimal digit between the two will be noted; these differences are insignificant and should cause no concern.

Target compounds include all those listed on the initial calibration spreadsheet; no Tentatively Identified Compounds (TIC's) were detected.

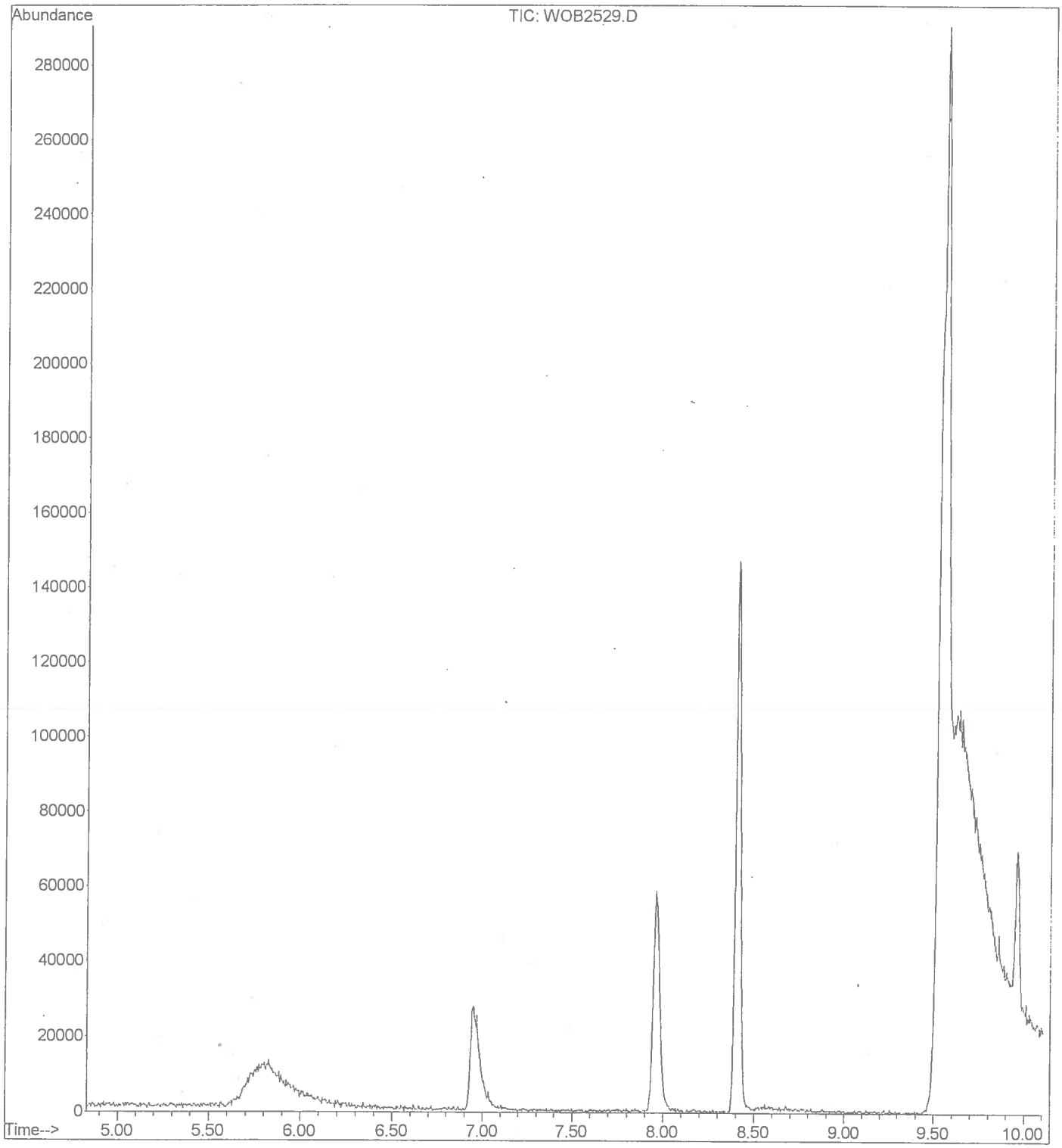
All QA/QC requirements of both HydroGeoSpectrum (HGS) and LARWQCB were met.

Chromatograms

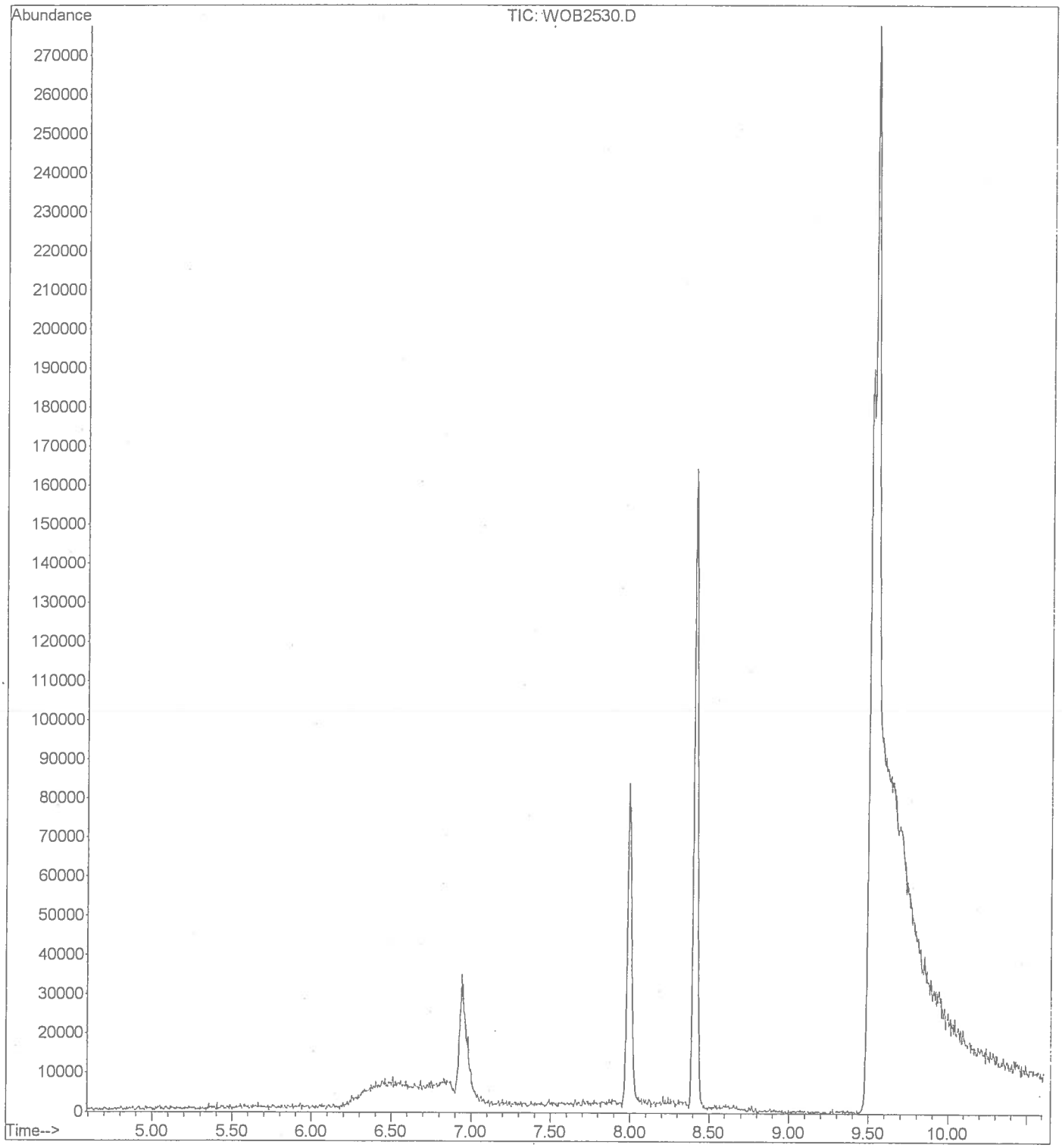
File : C:\HPCHEM\1\DATA\WOB2528.D
Operator : Raphe HGS
Acquired : 10 Aug 2007 1:40 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV101-08991-5
Misc Info : SFS/ASTECH 10AUG07 1130 G1
Vial Number: 1



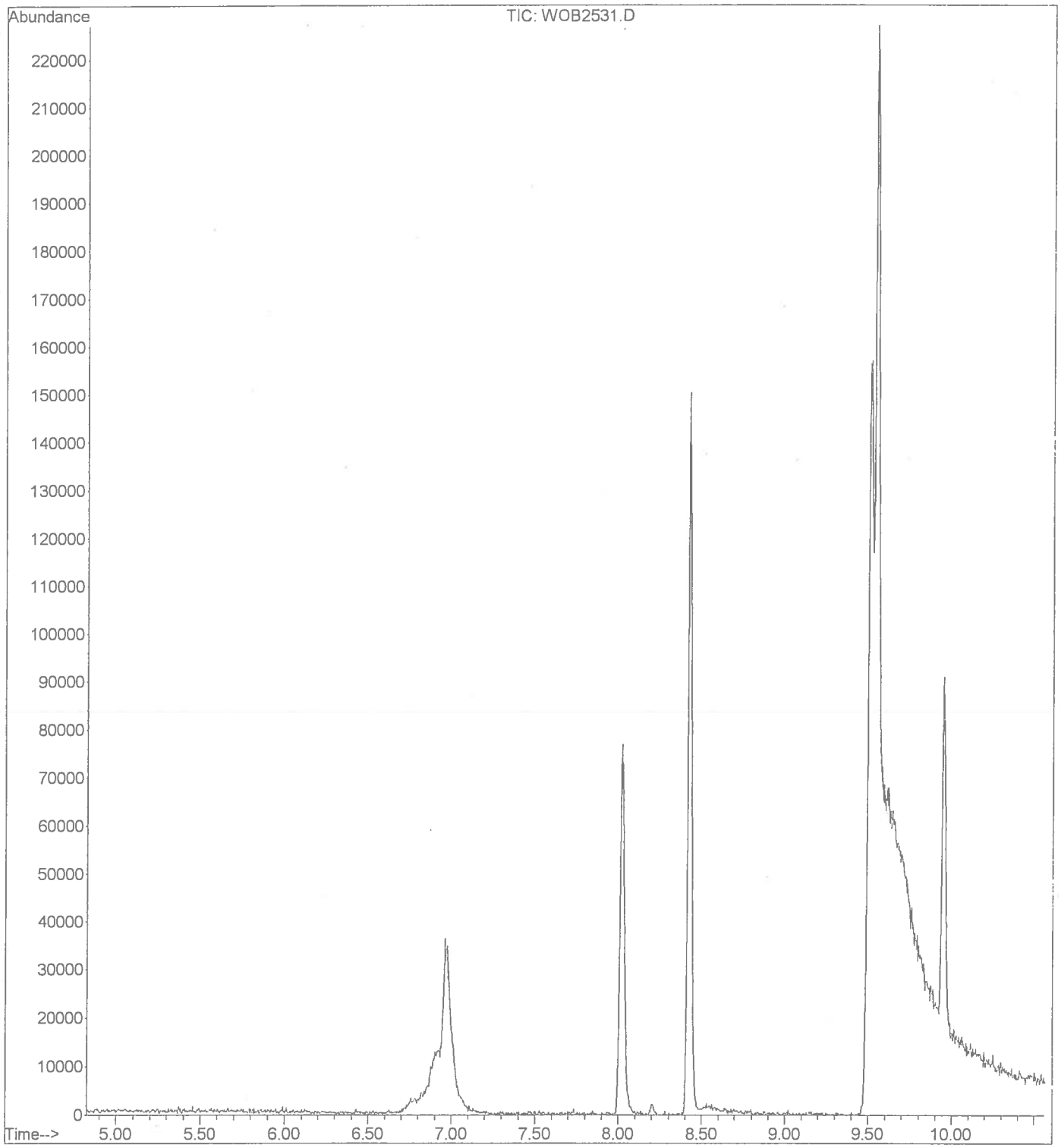
File : C:\HPCHEM\1\DATA\WOB2529.D
Operator : Raphe HGS
Acquired : 10 Aug 2007 1:56 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV101-08992-10
Misc Info : SFS/ASTECH 10AUG07 1132 R8
Vial Number: 1



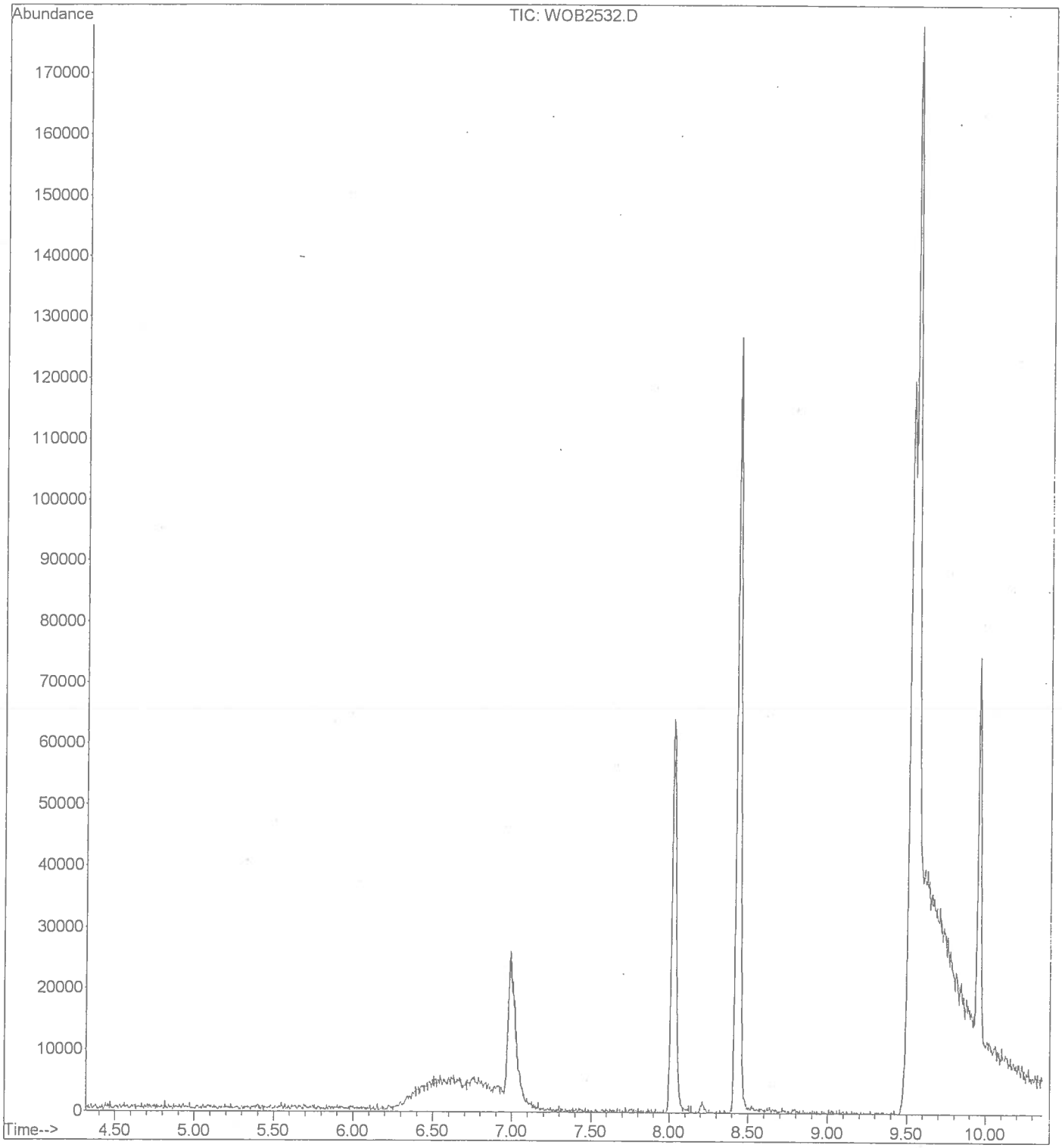
File : C:\HPCHEM\1\DATA\WOB2530.D
Operator : Raphe HGS
Acquired : 10 Aug 2007 2:11 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV101-08993-15
Misc Info : SFS/ASTECH 10AUG07 1134 W11
Vial Number: 1



File : C:\HPCHEM\1\DATA\WOB2531.D
Operator : Raphe HGS
Acquired : 10 Aug 2007 2:30 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV4-08994-5
Misc Info : SFS/ASTECH 10AUG07 1140 J3
Vial Number: 1



File : C:\HPCHEM\1\DATA\WOB2532.D
Operator : Raphe HGS
Acquired : 10 Aug 2007 2:47 pm using AcqMethod N060507
Instrument : GC/MS Ins
Sample Name: SV4-08995-10
Misc Info : SFS/ASTECH 10AUG07 1142 R6
Vial Number: 1



SFS/ASTECH

Soil Vapor
(µg/L)

HydroGeoSpectrum

LOCATION-depth(ft)	Date Sampled	Cform µg/L	PCE µg/L	VOC µg/L
SV1-5	11-Jul-07	2.3	4.2	N
SV1-10	11-Jul-07	2.3	4	N
SV1-15	11-Jul-07	5.4	3.8	N
SV2-5	11-Jul-07	3.6	20	N
SV2-10	11-Jul-07	1.7	8.6	N
SV2-15	11-Jul-07	3.4	14	N
SV3-10	11-Jul-07	2	23	N
SV4-5	10-Aug-07	1.2	8.4	N
SV4-10	10-Aug-07	1.2	6.7	N
SV4-15 LF	10-Aug-07	2.1	3.1	N
SV101-5	10-Aug-07	N	6.3	N
SV101-10	10-Aug-07	N	5	N
SV101-15 LF	10-Aug-07	N	0.5	N

Cform = Chloroform VOC = Volatile Organic Compound (other)
PCE = Tetrachloroethylene

N = < 0.5 µg/L
LF = Low Flow

DATA

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/AsTech
LAB NAME: HydroGeoSpectrum (HGS)
DATE: 10 AUG 2007
ANALYST: Raphe Pavlick
COLLECTOR: Raphe Pavlick
INSTRUMENT ID 2415A8201
NORMAL INJECTION VOLUME 1 ml

Sample ID:	SV101	SV101	SV101
	WOB2528-08991	WOB2529-08992	WOB2530-08993
Sampling Depth (ft)	5	10	15
Purge Volume (ml)	1650	1950	2250
Vacuum	NO	NO	NO
Sampling Time	1130	1132	1134 W
Injection Time	1340	1356	1411
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Chloroform	MS	8.44	5019	m 2.2	8.41	4768	m 2.1						
Tetrachloroethene	MS	9.95	9706	m 6.2	9.96	7722	m 4.9	9.95	799	0.5			
Deutero-chloroform	MS	8.04	66491	115%	7.96	60571	105%	7.99	62487	108%			
D6-BENZENE	MS	8.44	144292	89%	8.41	125146	77%	8.41	126764	78%			
D6-ACETONE	MS	7.00	76496	102%	6.95	75003	100%	6.94	75492	101%			
D2-Dichloromethane	MS	6.99	49537	107%	5.80	56596	122%	6.46	39378	85%			
D8-TOLUENE	MS	9.55	118314	101%	9.56	107093	92%	9.54	103824	89%			

Total Number of Peaks by GCMS: 2 + Surrogates 2 + Surrogates 1 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/AsTech LAB NAME: HydroGeoSpectrum (HGS) DATE: 10 AUG 2007
ANALYST: Raphe Pavlick COLLECTOR: Raphe Pavlick INSTRUMENT ID 2415A8201
NORMAL INJECTION VOLUME 1 ml

Sample ID:	SV4	SV4	SV4
	WOB2531-08994	WOB2532-08995	WOB2533-08996
Sampling Depth (ft)	5	10	15
Purge Volume (ml)	1650	1950	2250
Vacuum	NO	NO	NO
Sampling Time	1140	1142	1144
Injection Time	1430	1447	1501
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Chloroform	MS	8.04	2775	1.2	8.03	2802	1.2	7.98	4603	2.0			
Tetrachloroethene	MS	9.95	13028	8.4	9.96	10319	6.6	9.94	4861	3.1			
Deutero-chloroform	MS	8.02	56335	98%	8.02	50455	88%	7.97	52234	91%			
D6-BENZENE	MS	8.42	164995	102%	8.44	143426	89%	8.41	146243	90%			
D6-ACETONE	MS	6.96	68553	92%	6.99	61417	82%	6.94	64077	86%			
D2-Dichloromethane	MS	6.93	41578	90%	6.61	47368	102%	5.76	39793	86%			
D8-TOLUENE	MS	9.55	89895	77%	9.56	82452	71%	9.54	91082	78%			

Total Number of Peaks by GCMS: 2 + Surrogates 2 + Surrogates 2 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

QA/QC

INITIAL CALIBRATION BY FULL SCAN MASS SPEC

LAB NAME: HydroGeoSpectrum DATE: June 6, 2007

ANALYST:Raphe Pavlick STD LOT#:ULTRA CA2337a INSTRUMENT ID:2415A8201-2

Calibration Files
500 =WOB2222.D 1000 =WOB2221.D 20 =WOB2224.D
100 =WOB2223.D 5 =WOB2225.D

		Compound	500	1000	20	100	5	Avg		%RSD	AccRge
1)		Vinyl Chloride	1.481	1.649	1.932	2.681	2.017	1.952	E3	23.61	30
2)		Bromomethane	1.876	3.295	2.117	2.781	2.466	2.507	E2	22.29	30
3)		Chloroethane	4.495	5.071	5.567	8.032	6.124	5.858	E2	23.16	30
4)		1,1-Dichloroethene	1.885	2.658	2.532	2.544	2.357	2.395	E3	12.73	20
6)		Methylene Chloride	1.938	2.264	2.353	2.792	2.129	2.295	E3	13.88	20
7)		1,2-Dichloroethene (c	4.834	5.532	5.251	6.716	4.586	5.384	E3	15.41	20
8)		1,1-Dichloroethane	4.646	5.510	5.877	5.781	4.475	5.258	E3	12.43	20
9)		Chloroform	2.306	2.286	2.276	2.415	1.915	2.239	E3	8.47	20
10)		1,2-Dichloroethane	2.076	2.801	2.048	2.774	1.888	2.318	E3	18.77	20
12)		1,1,1-Trichloroethane	3.306	4.356	2.889	3.855	2.938	3.469	E3	18.13	20
13)		Carbon Tetrachloride	2.715	2.647	2.241	3.040	2.701	2.669	E3	10.67	20
14)		Benzene	4.940	4.546	5.096	5.649	4.458	4.938	E3	9.68	20
15)		Trichloroethene	1.640	1.634	1.837	2.438	2.154	1.940	E3	18.00	20
16)		1,2-Dichloropropane	4.643	5.293	5.842	5.717	4.453	5.190	E3	12.02	20
17)		Bromodichloromethane	2.306	2.502	1.850	2.408	1.915	2.196	E3	13.46	20
18)		cis-1,3-Dichloroprope	2.533	2.787	2.834	2.991	2.887	2.806	E3	6.07	20
19)		trans-1,3-Dichloropro	2.197	2.550	2.512	2.717	2.284	2.452	E3	8.57	20
20)		1,1,2-Trichloroethane	1.518	1.583	1.780	2.282	1.479	1.728	E3	19.12	20
21)		Dibromochloromethane	1.212	1.913	1.402	1.808	1.557	1.578	E3	18.22	20
22)		Bromoform	1.232	1.395	0.955	1.450	1.071	1.221	E3	17.18	20
24)		Toluene	3.737	4.355	4.430	6.141	4.833	4.699	E3	19.08	20
25)		Tetrachloroethene	1.228	1.393	1.396	1.881	1.847	1.549	E3	19.08	20
27)		Chlorobenzene	4.313	5.230	4.615	6.603	5.127	5.178	E3	17.01	20
28)		Ethylbenzene	2.065	2.825	2.683	3.555	2.883	2.802	E3	18.98	20
29)		Xylene (total)	0.724		0.942	1.150	0.908	0.931	E4	18.73	20
30)		Styrene	4.121		5.297	5.433	5.688	5.135	E3	13.53	20
31)		1,1,1,2-Tetrachloroet	1.791	1.777	1.411	2.083	2.013	1.815	E3	14.48	20
32)		1,1,2,2-Tetrachloroet	2.306	2.513	2.325	2.585	1.915	2.329	E3	11.19	20
33)		FREON-11	6.086	6.836	3.724	4.448	5.548	5.328	E2	23.46	30
34)	S	Deutero-chloroform	5.612	5.768	5.910			5.763	E2	2.59	25
35)		FREON-12	1.163	1.213	1.402	2.234	1.895	1.581	E3	29.45	30
36)		FREON-113	2.177	1.773	1.500	2.068	2.548	2.013	E3	19.82	30
43)		Freon-22	2.134	2.341	1.909	3.329	3.154	2.574	E3	24.55	30
44)		Freon-141B	1.187	1.045	1.135	1.550	1.742	1.332	E3	22.46	30
53)	S	D8-TOLUENE	1.163	1.180	1.159			1.167	E3	0.96	25

Evaluate Initial LCS Report

Data File : C:\HPCHEM\1\DATA\WOB2227.D
Acq On : 5 Jun 2007 12:58 pm
Sample : LCS 50 ng
Misc : 05JUNE07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N060507.M (RTE Integrator)
Title : FULL SCAN
Last Update : Thu Jun 07 11:34:00 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1.952	2.094	E3	-7.3	20
2	Bromomethane	250.683	220.760		11.9	20
3	Chloroethane	585.772	667.160		-13.9	20
4	1,1-Dichloroethene	2.395	2.563	E3	-7.0	15
6	Methylene Chloride	2.295	2.398	E3	-4.5	15
7	1,2-Dichloroethene (cis)	5.384	5.127	E3	4.8	15
8	1,1-Dichloroethane	5.258	4.488	E3	14.6	15
9	Chloroform	2.239	1.909	E3	14.7	15
10	1,2-Dichloroethane	2.318	2.194	E3	5.3	15
12	1,1,1-Trichloroethane	3.469	2.970	E3	14.4	15
13	Carbon Tetrachloride	2.669	2.286	E3	14.3	15
14	Benzene	4.938	5.267	E3	-6.7	15
15	Trichloroethene	1.940	1.922	E3	0.9	15
16	1,2-Dichloropropane	5.190	4.497	E3	13.4	15
17	Bromodichloromethane	2.196	1.909	E3	13.1	15
18	cis-1,3-Dichloropropene	2.806	2.840	E3	-1.2	15
19	trans-1,3-Dichloropropene	2.452	2.393	E3	2.4	15
20	1,1,2-Trichloroethane	1.728	1.840	E3	-6.5	15
21	Dibromochloromethane	1.578	1.452	E3	8.0	15
24	Toluene	4.699	4.543	E3	3.3	15
25	Tetrachloroethene	1.549	1.484	E3	4.2	15
27	Chlorobenzene	5.178	4.839	E3	6.5	15
28	Ethylbenzene	2.802	2.772	E3	1.1	15
29	Xylene (total)	9.309	9.936	E3	-6.7	15
30	Styrene	5.135	5.670	E3	-10.4	15
31	1,1,1,2-Tetrachloroethane	1.815	1.598	E3	12.0	15
32	1,1,2,2-Tetrachloroethane	2.329	2.132	E3	8.5	15
33	FREON-11	532.839	571.140		-7.2	20
35	FREON-12	1.581	1.800	E3	-13.9	20
36	FREON-113	2.013	1.912	E3	5.0	20
43	Freon-22	2.574	2.671	E3	-3.8	20
44	Freon-141B	1.332	1.452	E3	-9.0	20

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\WOB2526.D
Acq On : 10 Aug 2007 1:21 pm
Sample : STANDARD 50 ng
Misc : 10AUG07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N060507.M (RTE Integrator)
Title : FULL SCAN
Last Update : Fri Aug 10 13:40:20 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1.952	1.980	E3	-1.4	20
3	Chloroethane	585.772	610.100		-4.2	20
4	1,1-Dichloroethene	2.395	2.449	E3	-2.3	15
6	Methylene Chloride	2.295	2.437	E3	-6.2	15
7	1,2-Dichloroethene (cis)	5.384	6.042	E3	-12.2	15
8	1,1-Dichloroethane	5.258	5.385	E3	-2.4	15
9	Chloroform	2.239	2.197	E3	1.9	15
10	1,2-Dichloroethane	2.318	2.231	E3	3.8	15
12	1,1,1-Trichloroethane	3.469	3.618	E3	-4.3	15
13	Carbon Tetrachloride	2.669	2.593	E3	2.8	15
14	Benzene	4.938	4.339	E3	12.1	15
15	Trichloroethene	1.940	2.075	E3	-7.0	15
16	1,2-Dichloropropane	5.190	5.801	E3	-11.8	15
17	Bromodichloromethane	2.196	2.108	E3	4.0	15
18	cis-1,3-Dichloropropene	2.806	2.741	E3	2.3	15
19	trans-1,3-Dichloropropene	2.452	2.249	E3	8.3	15
20	1,1,2-Trichloroethane	1.728	1.498	E3	13.3	15
21	Dibromochloromethane	1.578	1.560	E3	1.1	15
24	Toluene	4.699	5.324	E3	-13.3	15
25	Tetrachloroethene	1.549	1.613	E3	-4.1	15
27	Chlorobenzene	5.178	5.920	E3	-14.3	15
28	Ethylbenzene	2.802	2.591	E3	7.5	15
29	Xylene (total)	9.309	8.101	E3	13.0	15
30	Styrene	5.135	5.386	E3	-4.9	15
31	1,1,1,2-Tetrachloroethane	1.815	1.727	E3	4.8	15
32	1,1,2,2-Tetrachloroethane	2.329	2.557	E3	-9.8	15
33	FREON-11	532.839	581.820		-9.2	20
35	FREON-12	1.581	1.274	E3	19.4	20
36	FREON-113	2.013	2.149	E3	-6.8	20
43	Freon-22	2.574	2.298	E3	10.7	20
44	Freon-141B	1.332	1.387	E3	-4.1	20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\WOB2534.D
Acq On : 10 Aug 2007 3:15 pm
Sample : LCS 50 ng
Misc : SFS/ASTECH 10AUG07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N060507.M (RTE Integrator)
Title : FULL SCAN
Last Update : Fri Aug 10 15:39:21 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1.952	1.824	E3	6.6	25
2	Bromomethane	250.683	231.120		7.8	25
3	Chloroethane	585.772	687.900		-17.4	25
4	1,1-Dichloroethene	2.395	2.213	E3	7.6	20
6	Methylene Chloride	2.295	1.933	E3	15.8	20
7	1,2-Dichloroethene (cis)	5.384	5.119	E3	4.9	20
8	1,1-Dichloroethane	5.258	5.259	E3	-0.0	20
9	Chloroform	2.239	2.398	E3	-7.1	20
10	1,2-Dichloroethane	2.318	2.276	E3	1.8	20
12	1,1,1-Trichloroethane	3.469	2.947	E3	15.0	20
13	Carbon Tetrachloride	2.669	2.350	E3	12.0	20
14	Benzene	4.938	4.151	E3	15.9	20
15	Trichloroethene	1.940	1.725	E3	11.1	20
16	1,2-Dichloropropane	5.190	5.263	E3	-1.4	20
17	Bromodichloromethane	2.196	2.312	E3	-5.3	20
18	cis-1,3-Dichloropropene	2.806	2.438	E3	13.1	20
19	trans-1,3-Dichloropropene	2.452	2.271	E3	7.4	20
20	1,1,2-Trichloroethane	1.728	1.952	E3	-13.0	20
21	Dibromochloromethane	1.578	1.747	E3	-10.7	20
22	Bromoform	1.221	0.998	E3	18.3	20
24	Toluene	4.699	4.269	E3	9.2	20
25	Tetrachloroethene	1.549	1.538	E3	0.7	20
27	Chlorobenzene	5.178	4.639	E3	10.4	20
28	Ethylbenzene	2.802	2.720	E3	2.9	20
29	Xylene (total)	9.309	9.914	E3	-6.5	20
30	Styrene	5.135	5.322	E3	-3.6	20
31	1,1,1,2-Tetrachloroethane	1.815	1.650	E3	9.1	20
32	1,1,2,2-Tetrachloroethane	2.329	2.616	E3	-12.3	20
33	FREON-11	532.839	499.300		6.3	25
35	FREON-12	1.581	1.888	E3	-19.4	25
36	FREON-113	2.013	1.919	E3	4.7	25
43	Freon-22	2.574	2.784	E3	-8.2	25
44	Freon-141B	1.332	1.434	E3	-7.7	25

APPENDIX C

DTSC CORRESPONDENCE

Linda S. Adams
Secretary for
Environmental Protection

Department of Toxic Substances Control

Maureen F. Gorsen, Director
5796 Corporate Avenue
Cypress, California 90630

Arnold Schwarzenegger
Governor

May 1, 2007

Ms. Carol Foss McCracken
Foss Plating Company, Inc.
8140 Secura Way
Santa Fe Springs, California 90670

APPROVAL OF THE REVISED SAMPLING AND ANALYSIS PLAN, DATED MARCH 27, 2007, FORMER FOSS PLATING FACILITY, 8140 SECURA WAY, SANTA FE SPRINGS, CALIFORNIA 90260; EPA ID CAD008278236

Dear Ms. Foss McCracken:

The Department of Toxic Substances Control (DTSC) has reviewed the Revised Sampling and Analysis Plan dated March 27, 2007, prepared by Astech Environmental Services, Inc. The Workplan is hereby approved. The Workplan must be implemented as approved and any deviations from the Workplan must be approved by DTSC.

DTSC must be notified at least seven days prior to the implementation of the field work. Foss Plating must prepare a report of the investigation including the risk evaluation and submit to DTSC on or before June 15, 2007. Please submit two hard copies of all the reports and an electronic copy in the PDF format.

If you have any questions or concerns regarding this matter, please contact me at (714) 484-5385.

Sincerely,

Irena Edwards

Irena Edwards
Hazardous Substances Scientist
Tiered Permitting Corrective Action Branch

CERTIFIED MAIL
7003 1680 0000 7367 9878
Return Receipt Requested

cc: See next page

SOIL GAS SAMPLE RESULTS

SITE NAME: SFS/AsTech
ANALYST: Raphe Pavlick
NORMAL INJECTION VOLUME 1 ml

LAB NAME: HydroGeoSpectrum (HGS)
COLLECTOR: Raphe Pavlick

DATE: 10 AUG 2007
INSTRUMENT ID 2415A8201

Sample ID:	SV101 WOB2528-08991	SV101 WOB2529-08992	SV101 WOB2530-08993
Sampling Depth (ft)	5	10	15
Purge Volume (ml)	1650	1950	2250
Vacuum	NO	NO	NO
Sampling Time	1130	1132	1134 W
Injection Time	1340	1356	1411
Injection Volume	1ml	1ml	1ml
Dilution Factor	1	1	1

COMPOUND	DETECTOR	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC	RT	AREA	CONC
Chloroform	MS	8.44	5019	m 2.2	8.41	4768	m 2.1						
Tetrachloroethene	MS	9.95	9706	m 6.2	9.96	7722	m 4.9	9.95	799	0.5			
Deutero-chloroform	MS	8.04	66491	115%	7.96	60571	105%	7.99	62487	108%			
D6-BENZENE	MS	8.44	144292	89%	8.41	125146	77%	8.41	126764	78%			
D6-ACETONE	MS	7.00	76496	102%	6.95	75003	100%	6.94	75492	101%			
D2-Dichloromethane	MS	6.99	49537	107%	5.80	56596	122%	6.46	39378	85%			
D8-TOLUENE	MS	9.55	118314	101%	9.56	107093	92%	9.54	103824	89%			

Total Number of Peaks by GCMS:	2 + Surrogates	2 + Surrogates	1 + Surrogates

Unidentified peaks and/or other analytical remarks: UNITS: mcg/L

QA/QC

INITIAL CALIBRATION BY FULL SCAN MASS SPEC

LAB NAME: HydroGeoSpectrum DATE: June 6, 2007

ANALYST:Raphe Pavlick STD LOT#:ULTRA CA2337a INSTRUMENT ID:2415A8201-2

Calibration Files
500 =WOB2222.D 1000 =WOB2221.D 20 =WOB2224.D
100 =WOB2223.D 5 =WOB2225.D

		Compound	500	1000	20	100	5	Avg		%RSD	AccRge
1)		Vinyl Chloride	1.481	1.649	1.932	2.681	2.017	1.952	E3	23.61	30
2)		Bromomethane	1.876	3.295	2.117	2.781	2.466	2.507	E2	22.29	30
3)		Chloroethane	4.495	5.071	5.567	8.032	6.124	5.858	E2	23.16	30
4)		1,1-Dichloroethene	1.885	2.658	2.532	2.544	2.357	2.395	E3	12.73	20
6)		Methylene Chloride	1.938	2.264	2.353	2.792	2.129	2.295	E3	13.88	20
7)		1,2-Dichloroethene (c	4.834	5.532	5.251	6.716	4.586	5.384	E3	15.41	20
8)		1,1-Dichloroethane	4.646	5.510	5.877	5.781	4.475	5.258	E3	12.43	20
9)		Chloroform	2.306	2.286	2.276	2.415	1.915	2.239	E3	8.47	20
10)		1,2-Dichloroethane	2.076	2.801	2.048	2.774	1.888	2.318	E3	18.77	20
12)		1,1,1-Trichloroethane	3.306	4.356	2.889	3.855	2.938	3.469	E3	18.13	20
13)		Carbon Tetrachloride	2.715	2.647	2.241	3.040	2.701	2.669	E3	10.67	20
14)		Benzene	4.940	4.546	5.096	5.649	4.458	4.938	E3	9.68	20
15)		Trichloroethene	1.640	1.634	1.837	2.438	2.154	1.940	E3	18.00	20
16)		1,2-Dichloropropane	4.643	5.293	5.842	5.717	4.453	5.190	E3	12.02	20
17)		Bromodichloromethane	2.306	2.502	1.850	2.408	1.915	2.196	E3	13.46	20
18)		cis-1,3-Dichloroprope	2.533	2.787	2.834	2.991	2.887	2.806	E3	6.07	20
[illegible])		trans-1,3-Dichloropro	2.197	2.550	2.512	2.717	2.284	2.452	E3	8.57	20
[illegible])		1,1,2-Trichloroethane	1.518	1.583	1.780	2.282	1.479	1.728	E3	19.12	20
21)		Dibromochloromethane	1.212	1.913	1.402	1.808	1.557	1.578	E3	18.22	20
22)		Bromoform	1.232	1.395	0.955	1.450	1.071	1.221	E3	17.18	20
24)		Toluene	3.737	4.355	4.430	6.141	4.833	4.699	E3	19.08	20
25)		Tetrachloroethene	1.228	1.393	1.396	1.881	1.847	1.549	E3	19.08	20
27)		Chlorobenzene	4.313	5.230	4.615	6.603	5.127	5.178	E3	17.01	20
28)		Ethylbenzene	2.065	2.825	2.683	3.555	2.883	2.802	E3	18.98	20
29)		Xylene (total)	0.724		0.942	1.150	0.908	0.931	E4	18.73	20
30)		Styrene	4.121		5.297	5.433	5.688	5.135	E3	13.53	20
31)		1,1,1,2-Tetrachloroet	1.791	1.777	1.411	2.083	2.013	1.815	E3	14.48	20
32)		1,1,2,2-Tetrachloroet	2.306	2.513	2.325	2.585	1.915	2.329	E3	11.19	20
33)		FREON-11	6.086	6.836	3.724	4.448	5.548	5.328	E2	23.46	30
34)	S	Deutero-chloroform	5.612	5.768	5.910			5.763	E2	2.59	25
35)		FREON-12	1.163	1.213	1.402	2.234	1.895	1.581	E3	29.45	30
36)		FREON-113	2.177	1.773	1.500	2.068	2.548	2.013	E3	19.82	30
43)		Freon-22	2.134	2.341	1.909	3.329	3.154	2.574	E3	24.55	30
44)		Freon-141B	1.187	1.045	1.135	1.550	1.742	1.332	E3	22.46	30
53)	S	D8-TOLUENE	1.163	1.180	1.159			1.167	E3	0.96	25

Evaluate Initial LCS Report

Data File : C:\HPCHEM\1\DATA\WOB2227.D
Acq On : 5 Jun 2007 12:58 pm
Sample : LCS 50 ng
Misc : 05JUNE07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N060507.M (RTE Integrator)
Title : FULL SCAN
Last Update : Thu Jun 07 11:34:00 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1.952	2.094	E3	-7.3	20
2	Bromomethane	250.683	220.760		11.9	20
3	Chloroethane	585.772	667.160		-13.9	20
4	1,1-Dichloroethene	2.395	2.563	E3	-7.0	15
6	Methylene Chloride	2.295	2.398	E3	-4.5	15
7	1,2-Dichloroethene (cis)	5.384	5.127	E3	4.8	15
8	1,1-Dichloroethane	5.258	4.488	E3	14.6	15
9	Chloroform	2.239	1.909	E3	14.7	15
10	1,2-Dichloroethane	2.318	2.194	E3	5.3	15
12	1,1,1-Trichloroethane	3.469	2.970	E3	14.4	15
13	Carbon Tetrachloride	2.669	2.286	E3	14.3	15
14	Benzene	4.938	5.267	E3	-6.7	15
15	Trichloroethene	1.940	1.922	E3	0.9	15
16	1,2-Dichloropropane	5.190	4.497	E3	13.4	15
17	Bromodichloromethane	2.196	1.909	E3	13.1	15
18	cis-1,3-Dichloropropene	2.806	2.840	E3	-1.2	15
19	trans-1,3-Dichloropropene	2.452	2.393	E3	2.4	15
20	1,1,2-Trichloroethane	1.728	1.840	E3	-6.5	15
21	Dibromochloromethane	1.578	1.452	E3	8.0	15
24	Toluene	4.699	4.543	E3	3.3	15
25	Tetrachloroethene	1.549	1.484	E3	4.2	15
27	Chlorobenzene	5.178	4.839	E3	6.5	15
28	Ethylbenzene	2.802	2.772	E3	1.1	15
29	Xylene (total)	9.309	9.936	E3	-6.7	15
30	Styrene	5.135	5.670	E3	-10.4	15
31	1,1,1,2-Tetrachloroethane	1.815	1.598	E3	12.0	15
32	1,1,2,2-Tetrachloroethane	2.329	2.132	E3	8.5	15
33	FREON-11	532.839	571.140		-7.2	20
35	FREON-12	1.581	1.800	E3	-13.9	20
36	FREON-113	2.013	1.912	E3	5.0	20
43	Freon-22	2.574	2.671	E3	-3.8	20
44	Freon-141B	1.332	1.452	E3	-9.0	20

Evaluate Daily LCS Report

Data File : C:\HPCHEM\1\DATA\WOB2534.D
Acq On : 10 Aug 2007 3:15 pm
Sample : LCS 50 ng
Misc : SFS/ASTECH 10AUG07
MS Integration Params: rteint.p

Vial: 1
Operator: Raphe HGS
Inst : GC/MS Ins
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\N060507.M (RTE Integrator)
Title : FULL SCAN
Last Update : Fri Aug 10 15:39:21 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF		%Dev	AccRge
1	Vinyl Chloride	1.952	1.824	E3	6.6	25
2	Bromomethane	250.683	231.120		7.8	25
3	Chloroethane	585.772	687.900		-17.4	25
4	1,1-Dichloroethene	2.395	2.213	E3	7.6	20
6	Methylene Chloride	2.295	1.933	E3	15.8	20
7	1,2-Dichloroethene (cis)	5.384	5.119	E3	4.9	20
8	1,1-Dichloroethane	5.258	5.259	E3	-0.0	20
9	Chloroform	2.239	2.398	E3	-7.1	20
10	1,2-Dichloroethane	2.318	2.276	E3	1.8	20
12	1,1,1-Trichloroethane	3.469	2.947	E3	15.0	20
13	Carbon Tetrachloride	2.669	2.350	E3	12.0	20
14	Benzene	4.938	4.151	E3	15.9	20
15	Trichloroethene	1.940	1.725	E3	11.1	20
16	1,2-Dichloropropane	5.190	5.263	E3	-1.4	20
1[illegible]	Bromodichloromethane	2.196	2.312	E3	-5.3	20
1[illegible]	cis-1,3-Dichloropropene	2.806	2.438	E3	13.1	20
19	trans-1,3-Dichloropropene	2.452	2.271	E3	7.4	20
20	1,1,2-Trichloroethane	1.728	1.952	E3	-13.0	20
21	Dibromochloromethane	1.578	1.747	E3	-10.7	20
22	Bromoform	1.221	0.998	E3	18.3	20
24	Toluene	4.699	4.269	E3	9.2	20
25	Tetrachloroethene	1.549	1.538	E3	0.7	20
27	Chlorobenzene	5.178	4.639	E3	10.4	20
28	Ethylbenzene	2.802	2.720	E3	2.9	20
29	Xylene (total)	9.309	9.914	E3	-6.5	20
30	Styrene	5.135	5.322	E3	-3.6	20
31	1,1,1,2-Tetrachloroethane	1.815	1.650	E3	9.1	20
32	1,1,2,2-Tetrachloroethane	2.329	2.616	E3	-12.3	20
33	FREON-11	532.839	499.300		6.3	25
35	FREON-12	1.581	1.888	E3	-19.4	25
36	FREON-113	2.013	1.919	E3	4.7	25
43	Freon-22	2.574	2.784	E3	-8.2	25
44	Freon-141B	1.332	1.434	E3	-7.7	25

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2010-2012
Groundwater Well

ASTECH

ENVIRONMENTAL SERVICES, INC.

Environmental Management and Consulting Services

GROUNDWATER MONITORING WELL INSTALLATION WORKPLAN
FORMER FOSS PLATING FACILITY
EPA ID CAD008278236
8140 SECURA WAY
SANTA FE SPRINGS, CALIFORNIA 90250

Prepared For:

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS WASTE MANAGEMENT PROGRAM
TIERED PERMITTING CORRECTIVE ACTION BRANCH
Attention: Ms. Irena Edwards
5796 Corporate Avenue
Cypress, CA 90630

Submitted on Behalf of:

FOSS PLATING COMPANY, INC.
Mr. Don Foss
8140 Secura Way
Santa Fe Springs, California 90670

January 15, 2011

REGISTERED GEOLOGIST
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Andrew J. Schmitt
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1306 East Edinger Ave., Unit C · Santa Ana CA 92705 · PH. 949-338-4557 · FX. 949-521-7707

EXECUTIVE SUMMARY

Pursuant to the requirements of the Department of Toxic Substance Control (DTSC), ASTECH Environmental Services, Inc., has prepared a Removal Action Workplan (RAW) for the former Foss Plating facility at 8140 Secura Way in Santa Fe Springs, California. The RAW summarizes background and previous investigation data, evaluates chemicals of potential concern and their possible health affects, evaluates three alternative remedial options: (1) removal/replacement of concrete slab, installation of passive sub-slab vent lines, installation of a vapor barrier, and installation of up to four groundwater monitoring wells; (2) removal/replacement of concrete slab removal of soil containing metal concentrations in excess of TTLCs to 12 feet below grade, backfill/compact soil, and installation of up to four groundwater monitoring wells; and (3) removal/replacement of concrete slab, in-situ treatment/stabilization of soil affected by elevated metal concentrations, and installation of up to four groundwater monitoring wells. Based on results of the human health screening evaluation and on an engineering evaluation/cost analysis, ASTECH recommends removal and replacement of concrete containing elevated metal concentrations (above TTLC values), installation of passive vent lines, installation of a vapor barrier, installation and monitoring of groundwater monitoring wells. A deed restriction will likely need to be placed on the property until that time where removal of soil containing elevated metal concentrations can be safely and cost-effectively removed or treated.

The project is anticipated to begin in early January 2008, after completion of a 30-day public participation period, and to end in early February 2008. Groundwater monitoring will commence during the first quarter of 2008.

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APPENDICES

Appendix A Corrective Action Consent Agreement
Appendix B Health & Safety Plan
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1.0 INTRODUCTION

In accordance with the Corrective Action Consent Agreement (CACA) of September 2, 2003, the California Department of Toxic Substances (DTSC) has directed Foss Plating, located at 8140 Secura Way in Santa Fe Springs, California (hereinafter referred to as 'the Site') to install groundwater monitoring wells in order characterize groundwater beneath the Site. In this document, general information regarding the history of the Site is presented, previous site assessments are summarized, chemical results tabulated, and the nature of contamination evaluated. Lastly, a workplan outlining the proposed well installation activities is presented.

1.1 OBJECTIVES

The objectives of the proposed workplan are to:

- Propose a time-schedule to install up to four (4) groundwater monitoring wells;
- Establish a sampling frequency (program) regarding the proposed groundwater monitoring wells;
- Determine the groundwater gradient and flow direction beneath the Site;
- Perform the above activities in a cost-effective manner.

2.0 BACKGROUND

2.1 SITE LOCATION AND DESCRIPTION

A description of the Site location and layout, site contact information, EPA and DTSC database identification numbers, and ownership is summarized below.

2.1.1 Site Name and Location

The Site, known as Foss Plating, is located at 8140 Secura Way in Santa Fe Springs, California 90670. It is located on the eastern side of Secura Way in a mixed commercial and light industrial area. The Site location relative to local landmarks is shown on Figure 1. A Site Vicinity Map is shown on Figure 2.

2.1.2 Site Description

The Site is improved with two (2) structures that are adjoined by a common wall. The northernmost partition of the structure (Building #1) comprises approximately 9,193-sqaure feet (built 1967) while the southern building (Building #2) consists of approximately 3,452 ft^2. A portion of Building #1 (approximately 1,380-square feet) accommodates a second floor that is situated above the northwestern perimeter. The remaining portion of the Site consists of approximately 3,320-square feet of paved open space (yard area) located between Secura Way and structure. A Site Map is shown on Figure 3.

2.1.3 Adjacent Properties

Properties adjacent to the Site are shown on Figure 4. These properties, typically occupied by commercial and light industrial businesses, and are summarized below.

Assessor's Parcel Number	Address	Business/Description
8169-002-015	8206 Secura Way	Santa Fe Springs Plating, also Saturn Metal Furniture Mfg
8169-002-014		
8169-002-011	8140 Secura Way	Subject Site Former Foss Plating

Assessor's Parcel Number	Address	Business/Description
8169-002-036	8126 Secura Way	JC Machine Shop (welding and metal works)
8169-002-035	8122 Secura Way	JC Machine Shop also A&R Diesel
8169-002-027	8118 Secura Way	Whittier Grinding (machine shop and tool grinding)
8169-002-026	8110 Secura Way	Classic Eagle (Auto Repair)
8169-002-025 8169-002-028	8100 Secura Way 8108 Secura Way	PTS Laboratories (Physical soils testing)
8169-002-004 8169-002-024	11920 Washington Blvd.	Mission Linen (CA SLIC site)
8169-002-008	8119 Secura Way	
8169-002-009	8121 Secura Way 8123 Secura Way	J&S Machine (Automotive) Woodgrain Restorations
8169-002-022	8141 Secura Way	Two J's Body Shop
8169-002-023	8145 Secura Way	Foamex LP (plastic foam products mfg)
8169-002-033	8203 Secura Way	Aguilar's Broach / Machine shop
8169-002-034	8209 Secura Way	EAJ Carpentry
8169-002-016	11983 Rivera Rd.	SoCal Water Cuts (precision abrasive water jet cutting)
8169-001-016	11954 Washington Blvd	Southern Fresh Produce Graham-Field Health Products (orthopedic)

The Site is located within a portion of the Los Angeles Basin designated by the United States Environmental Protection Agency as the Omega Chemical Superfund Site (Omega Superfund. The former Omega Chemical is situated approximately ¾ miles northeast of the Foss facility (near the corners of Whittier Boulevard, Washington Boulevard, and Santa Fe Springs Road). Groundwater beneath the former Omega Chemical facility is affected by concentrations of various halogenated solvents including tetrachloroethene (PCE),

trichloroethene (TCE), 1,1 dichloroethene (DCE), cis-1,2 DCE, Freon 11 and Freon 113. A nearly continuous plume of these chemicals extends southwesterly from the former Omega Chemical facility nearly two miles to Telegraph Road, and laterally approximately 0.75 miles. The reported perimeters of the plume extend to within less than ½ mile of the Site property. The axis of the dissolved VOC plume extends slightly southwest of the Site property based on groundwater characterization studies published in February 2002. A review of isometric contour maps detailing chemicals of concern within the Omega Superfund depict the Site facility just outside of the area of influence. The Site location relative to what is termed the Omega Plume is shown on Figure 1.

2.1.4 Contact Person

On-Site contacts are:

Mr. Don Foss
Carol McCracken
562-945-3451

2.1.5 EPA Identification Number and CalSites Database Number

According to the Corrective Action Consent Agreement, the Site maintains an EPA Identification Number of CAD008278236. A search of DTSC's EnviroStor database (www.envirostor.ca.gov) suggested the Site address is not included in DTSC's database.

2.1.6 Assessor's Parcel Number(s) and Maps

According to the Los Angeles County Department Assessor's Office, an Assessor's Parcel Number (APN) 8169-002-011 was assigned to the site. The corresponding Assessor's Parcel Map is shown as Figure 3.

The Assessor's office reports the legal description of the Site as follows: "*Rancho Santa Gertrudes subdivided from the Santa Gertrudes Land Association Lot. N0°28'E 220.87 feet from the southwest corner of Lot 1, Tract #2329, then N0°28'E 123.6 feet with a uniform depth of 126.24 feet, then N89°32'W. Part of Tract 4.*"

2.1.7 Ownership

The Site is currently owned by Don Foss, Larry Foss, and Victor Foss.

2.2 Operational History and Status

The Site was historically utilized for agricultural purposes from at least the late 1920s through 1950s. The property was purchased by Foss Plating in 1960, however, was not developed until 1967. In 1967, a 9,209 square-foot building (Building 1) was constructed. Foss Plating operated at the Site from 1968 until facility closure in 2005. Specialty plating operations conducted during the lifetime of the facility included zinc, nickel, copper, and chromium plating.

Comment [D1]: Are you sure? A lot of Santa Fe Springs was oil-field property.

Prior to cessation of operations, Foss Plating manufactured decorative chrome plating, using primarily nickel and chrome. Some zinc plating was performed prior to 1974. Metal polishing was performed in Building #2. The facility maintained two processing lines and one stripping line. Metal parts were first cleaned with either caustic alkaline or acid solutions, and then plated with nickel or chromium. The parts were then rinsed with water. The processing and stripping lines, consisting of several above-ground vats containing various chemical compounds and rinses, were located within a concrete-diked area along the inside of the east wall of Building #1. A vapor degreaser was formerly maintained in a subsurface concrete vault located in the southern portion of the building. The vapor degreaser used 1,1,1 trichloroethane (TCA), which was stored in a 250-gallon above-ground storage tank (AST). Wastewater was diverted to a three-stage concrete clarifier located in the yard area just west of the building. Wastewater was treated prior to discharge. Treatment of wastewater consisted of neutralization of liquids, and reduction of dissolved metals (in settling tanks). The treatment tanks, consisting of a series of fiberglass-lined concrete tanks, are located in the yard area south of the clarifier. Treated water was discharged to the sewer system. Sumps in the diked processing areas were periodically pumped (via above-ground piping) to the treatment area for treatment prior to discharge. Solid waste from the settling tanks and clarifier were periodically removed and stored on site pending permitted disposal.

Discharged water was sampled quarterly and reported to the Los Angeles County Sanitation District. A drainage trench was installed along the west property line just west of the treatment tanks to prevent off-flow of surface run-off. The former layout of the facility, showing key physical features, is shown on Figure 3.

2.3 CURRENT ON-SITE CONDITIONS

Foss Plating ceased operations in 2005. Since that time, Foss has been selling the equipment and preparing the building for rent.

2.4 TOPOGRAPHY, GEOLOGY, AND HYDROGEOLOGY

Local and regional topography, geology and hydrogeology of the area surrounding the Site are described in the following sections.

2.4.1 Topography

The Site is at an elevation of approximately 151 feet above mean sea level (msl), in the Whittier-Santa Fe Springs area, Los Angeles County, California. The ground surface in the Site area is of low relief and slopes gently to the south-southwest. According to the United States Geological Survey (USGS) 7.5-minute quadrangle map of Whittier (1964), the Site lies in Section 29L of Township 2 South, Range 11 West relative to the San Bernardino base and meridian. Based on the above, the California Department of Water Resources (CDWR) shows the Site as being on the northeastern, descending limb of the La Habra Syncline, between the La Habra Piedmont to the northeast and the Santa Fe Springs Plain to the southwest, within the Coastal Plain of Los Angeles County, California (CDWR, 1961: Plate 2). The Los Angeles Coastal Plain is bounded by the Santa Monica Mountains on the north, the Elysian, Repetto, Merced, and the Puente Hills on the southeast, and the Pacific Ocean on the south and west.

The La Habra Piedmont Slope extends southeasterly along the southwest foot of the Puente Hills. It was formed by the coalescence of several alluvial fans deposited by streams draining the Puente Hills.

The Santa Fe Springs Plain, located south of Whittier and east of the San Gabriel River, has been described by CDWR (1961) as being one of many older dissected alluvial aprons found adjacent to highlands and foothills. It is characterized by reddish, or brown, deeply weathered soil in the upper 3 to 20 feet. The plain is apparently a continuation of the Coyote Hills uplift to the southeast; however has only a low, slightly rolling topographic relief. The plain has probably been warped by the Santa Fe Springs-Coyote Hills anticlinal system and dips toward the northeast and southwest.

The La Habra Syncline is located between the Whittier Fault Zone (which created the Puente Hills) to the northeast and the Santa Fe Springs-Coyote Hills uplift to the south-southwest. The axis of the syncline trends west-northwest. Water-bearing materials extend up both limbs of the syncline and outcrop in the Puente Hills and Coyote Hills.

2.4.2 Regional Geology and Hydrogeology

According to the CDWR Bulletin 104 (1961), the Site is physiographically located between the Santa Fe Springs Plain to the southwest and the La Habra Piedmont (and Puente Hills) to the northeast. Hydraulically, the Site is located along the border between the northwestern edge of the Whittier Area and the southeastern edge of the Montebello Forebay.

Regional geology is based on a review of information from CDWR Bulletin 104 (1961) describing geologic features of the Whittier Area. The Montebello Forebay Area is regionally considered an important recharge area within the Central Basin. The Montebello Forebay extends southward from the Whittier Narrows and is overlain by portions of the Montebello, Downey, and Santa Fe Springs Plains.

The term *Whittier Area* (also referred to in this section as "the Area") was first used in the 1961 edition of the CDWR Bulletin 104. In prior editions, this area was termed the La Habra Basin. The Whittier Area is bounded by the Puente Hills to the north-northeast, the axis of the Santa Fe Springs-Coyote Hills uplift (this is southern edge of the Coyote Hills) to the south, an arbitrary line separating the Whittier Area from the Montebello Forebay Area to the northwest, and the Orange County line to the southeast. The southern boundary was chosen for this area as it coincides with a groundwater divide. As previously mentioned, the La Habra Syncline runs from the east end of the Area to the west end of the Area.

Fresh-water-bearing sediments extend to approximately 1,000 feet bgs in the Whittier Area, and include Recent Alluvium, the Lakewood and San Pedro Formations. Saline water can be found at greater depths. Not all members of the aforementioned formations are found beneath the entire Whittier Area.

Recent Alluvium in the Area consists of a thin finger of sand, gravel and clay extending from the western portion (bordering the Montebello Forebay area)(approximately 80 feet thick) and thinning to the east. These sediments comprise the Bellflower aquiclude and the Gaspur aquifer. The Bellflower aquiclude consists of clay and sandy clay, ranging in thickness from 10 to 40 feet. It overlies the Gaspur aquifer in the extreme west portion of the Whittier Area. The degree of water infiltration through the Bellflower aquiclude depends on its composition and thickness.

The Gaspur aquifer is composed mainly of sand and gravel, with small amounts of interbedded clay. It ranges in thickness from 30 to 60 feet.

The Lakewood Formation consists of continental deposits of Late Pleistocene age, and does not underlie the entire Whittier Area – it crops out at the surface in some areas. The Santa Fe Springs Plain is one such area. Members of the Lakewood Formation include the Artesia and Gage aquifers. According to CDWR Bulletin 104 (1961) plates, the Artesia aquifer is not present in the Site Area. The Site appears to border along the area where the Gage aquifer crops out also. The Gage aquifer is an important water-bearing aquifer, and has been delineated only in the southern portion of the Whittier Area, along the Los Angeles – Orange County border. At this location, it consists primarily of sand with interbedded clay layers.

The San Pedro Formation underlies most of the Whittier Area, and is composed mostly of sediments of marine origin. These sediments consist of sand and gravel with interbedded clay. There is an extreme angular unconformity between the lower Lakewood and upper San Pedro members along the north border of the Whittier Area. Members of the San Pedro Formation include the Hollydale, Jefferson, Lynwood, Silverado and Sunnyside aquifers.

The Hollydale aquifer is present only in the western portion of the Whittier Area, at thicknesses of 10 to 25 feet. It is comprised of sand and gravel, with small amounts of

interbedded clay. According to CDWR Bulletin 104 (1961) plates, the Site is located along the border of the defined area of the Hollydale aquifer.

The Jefferson aquifer is comprised of sand and gravel with few interbedded clay layers. It ranges in thickness from 20 to 40 feet, and appears to merge with the Hollydale aquifer in the western portion of the Whittier Area, along the boundary with the Montebello Forebay. The Jefferson aquifer appears to be present beneath the Site.

The Lynwood aquifer is present throughout the Whittier Area, and is comprised of sand and gravel with some interbedded clay. It ranges in thickness from 50 to 100 feet.

The Silverado aquifer and Sunnyside aquifers are present beneath the entire Whittier Area and are comprised of sand and gravel. Some interbedded clay layers are present in the Sunnyside aquifer. The Silverado aquifer ranges in thickness from 110 to 300 feet, while the Sunnyside aquifer ranges in thickness from 200 to 300 feet. The Silverado and Sunnyside aquifers appear to be present beneath the Site.

The following table summarizes the formations and hydraulic units present beneath the site according to CDWR Bulletin 104 (1961), in order of increasing depth.

Era / Formation	Hydraulic Unit	Depth Range	Description
Recent Alluvium	Alluvium Bellflower aquiclude Gaspur aquifer	 ~10-30 ft bgs ~35-75 ft bgs	Clay and sandy clay Sand and gravel with small amounts of interbedded clay
Upper Pleistocene Lakewood Fmn	Artesia aquifer Gage aquifer	Not Present Not Present	

Era / Formation	Hydraulic Unit	Depth Range	Description
Lower Pleistocene			
San Pedro Fmn	Hollydale aquifer	Not Present	
	Jefferson aquifer	~135-150 ft bgs	sand and gravel with few interbedded clay layers
	Lynwood aquifer	~150-250 ft bgs	sand and gravel with some interbedded clay
	Silverado aquifer	~300-450 ft bgs	sand and gravel
	Sunnyside aquifer	~575-850 ft bgs	sand and gravel with some interbedded clay
Pliocene			
Pico Formation	undifferentiated	~1000 ft bgs	Saline groundwater

Source: CDWR, 1961

2.4.3 Site Geology and Hydrogology

The Site geology and hydrogeology described in this section are based on materials and conditions encountered during drilling operations at the Site and the up-gradient Mission Linen property (11920 Washington Boulevard), located approximately 250 feet to the north-northwest.

Materials encountered beneath the Site during various phases of investigation (see Section 2.5 of this document) consist of the following, in order of increasing depth:

Depth Range (feet bgs)	Description
0-10 and 12	Silty sand with increasing silt content with depth.
10 and 12 – 30	Clay (Bellflower aquiclude)
30+	Silty sand to sand (Gaspur aquifer)

A cross section, spanning the Site from the northeast to the southwest is included in Appendix A (from Weinfield & Associates, 2006). Groundwater beneath the Site occurred at depths ranging from 28 to 32 feet bgs. Groundwater beneath the Site is based on groundwater monitoring data performed by CGC Environmental, Inc. (CGC) between the Third Quarter 2005 and First Quarter 2007. According to CGC, groundwater flows to the southwest at an average gradient of approximately 0.001 foot/foot (ft/ft). The direction of

groundwater flow has been consistent over time, and consistent with groundwater contour maps depicting the Gaspur aquifer within the Los Angeles Coastal Basin. A monitoring well (MW-7), associated with the up-gradient Mission Linen property, is located within Secura Way immediately adjacent to the entrance of Building #1 of the Foss facility. In February 2007, the depth to groundwater in well MW-7 was 29.32 feet below top of casing. At that time, a concentration of 530 micrograms per liter (µg/L) PCE was detected in well MW-7. Groundwater contour maps and VOC distribution maps in February 2006 and February 2007 are included in Appendix A.

2.4.4 Local Potential Sensitive Receptors

The Site is located in a commercial and light manufacturing area of Santa Fe Springs, California. There are no schools within 0.5 mile radius of the site. The nearest place of worship (The Good Samaritan) is located 0.15 mile northeast of the Site, on Washington Boulevard.

According to the Los Angeles County Department of Public Works (LACDPW, online database), the nearest active groundwater production well (1632C) is located on Washington Boulevard and Freestone Avenue, approximately 0.4 mile to the northwest (up and cross gradient) of the Site. The nearest active groundwater production well downgradient from the Site is well 1633B, located at Westman Avenue and Verbeck Street (one block east of Norwalk Boulevard and one block south of Washington Boulevard), approximately 0.63 mile southwest of the Site. Groundwater flows to the southwest. Wells 1632C and 1633B are shown on Figure 1.

2.5 Previous Site Assessment Activities

Site assessment activities have been performed at the site at various stages over the years since 1989. A summary of these activities follows. Boring and sampling locations are shown on Figure 3. Chemical results are summarized in Tables 1 through 4, attached.

2.5.1 Preliminary Environmental Assessment, 1989

In April 1989, Clayton Environmental Consultants prepared a "Preliminary Environmental Assessment" (similar in scope to a Phase I Environmental Site Assessment [ESA]). At that time, the facility maintained two processing lines and a stripping line, a vapor degreaser, a 250-gallon TCE AST, a 55-gallon drum equipped with degreasing receptacle (by Safety Kleen), and a three-stage clarifier. The processing and strip lines circumscribed with concrete berms. Clayton concluded that the Site posed a low risk with respect to environmental hazards, however, recommended placing the two ASTs in a bermed area.

2.5.2 1,1,1 TCA Spill (1995) and Subsequent Sampling, 1999

In 1995, approximately 10 to 15 gallons of 1,1,1 trichloroethane (TCA) were reportedly spilled at the site. In March 1999, six soil samples were collected at three locations (First Pit, Pit #1, and Pit #2) adjacent to the spill-containment pits, which are a part of the 10-pit water treatment system. The soil samples were collected at 6 and 12 inches below grade, and analyzed for pH using EPA Method 9040, total chrome using EPA Method 6010, hexavalent chromium using EPA Method 7196 and nickel using EPA Method 6010. In addition, the samples were also analyzed for volatile organic compounds (VOCs) using EPA Method 8010.

Chemical results for the soil samples indicated they were slightly to moderately alkalkine, with pH ranging from 8.4 to 10.2. Concentrations of total chrome ranged from 24.2 to 97.3 milligrams per kilogram (mg/kg), hexavalent chromium was not detected, and nickel concentrations ranged from 16.9 to 30[1] mg/kg. VOCs detected included PCE only, which ranged from 1 to 48 micrograms per kilogram (µg/kg). TCE and other VOCs were not detected.

2.5.3 Removal of a Three-Stage Clarifier, 2003

In 2003, the three-stage concrete clarifier, located in the northern portion of the yard area, was abandoned by Jacks Environmental Technology, Incorporated (JETI). Confirmation soil samples were collected from the inlet, outlet and middle of the clarifier. The soil samples were analyzed for VOCs using EPA Method 8260B, total petroleum hydrocarbons (TPH) – full scan range using EPA Method 8015M, total metals using EPA Method 6010, hexavalent

chromium using EPA Method 7195, and pH using EPA Method 9040. A report documenting the removal of the clarifier and results of confirmation samples collected was submitted to the Santa Fe Springs Fire Department (SFSFD) on May 3, 2003. Chemical results are summarized in Table 2, attached. Total chrome concentrations ranged from 9.7 to 12.6 mg/kg; hexavalent chromium was not detected. Nickel concentrations ranged from 7.4 to 9.9 mg/kg, and zinc ranged from 35.5 to 53.3 mg/kg. These concentrations are below Region IX EPA Preliminary Remediation Goals (PRGs). TPH in the gasoline and diesel ranges, and VOCs were not detected in the samples collected and analyzed.

Based on the chemical results for the soil samples collected during the clarifier closure, and removal of the clarifier, the SFSFD issued a No Further Action letter to Foss Plating, dated August 30, 2003.

2.5.4 Corrective Action Consent Agreement, 2003

On September 2, 2000, DTSC and Foss Plating entered into a Corrective Action Consent Agreement (CACA). A copy of the CACA is attached as Appendix B.

According to DTSC, it had inspected the Site in 2002 and identified four areas of concern (AOCs):

SWMU #1	Degreaser Operations Area
SWMU #2	Wet Floor / Plating Room Area
SWMU #3	Underground Clarifier
SWMU #4	Wastewater Treatment System.

In the CACA, DTSC directed Foss Plating to perform the following activities:

- Perform a Preliminary Endangerment Assessment (PEA)
- Provide information for DTSC to comply with the California Environmental Quality Act (CEQA). Using this information, DTSC would determine if a negative declaration or an environmental impact report (EIR) should be prepared.
- Provide DTSC with quarterly status reports. DTSC may modify the frequency of the reports based on site activities.

2.5.5 Preliminary Endangerment Assessment, 2003 and 2004

JETI prepared a PEA Workplan for Foss Plating, and submitted it to DTSC on May 29, 2003. Upon approval by DTSC, the workplan was implemented in September 2004.

JETI advanced and sampled 11 soil borings (BSL-1 through BSL-10, and BGS-1) to a maximum depth of 15 feet below ground surface (bgs). Additional soil borings, EB1 and EB2, were advanced in the former nickel treatment area and along the plating line, respectively. Soil borings are shown on Figure 3. Soil samples collected during the PSA were analyzed for CAM-17 metals using EPA Method 6010/7000; cyanide using EPA Method 9010B; volatile organic compounds (VOCs), using EPA Method 8260B; pH using EPA Method 9045C; and, hexavalent chromium (Cr^{6+}), using EPA Method 7199. Chemical results are included in Tables 2 and 3. Chemical results are summarized in Tables 2 and 3, attached, and are discussed in Section 3 of this document.

2.5.6 Phase II Environmental Site Assessment, 2006

On March 13 and 14, 2006, Winefield and Associates (W&A) performed additional site assessment at the Site at the direction of DTSC. The sampling activities consisted of the advancement of two vadose-zone borings (BSL-11 and BSL-12), the installation of three nested soil vapor probes (VP1, VP2, & VP3), and the collection of three hydropunch groundwater samples (GW1, GW2, & GW3). Select soil samples from the vapor probe locations were also analyzed for total metals. Boring locations are shown on Figure 3.

Chemical results are included in Tables 2, 3 and 4. Results of the Phase II ESA are discussed below. They are further discussed in context with the other investigations in Section 3.

- Total chrome concentrations ranged from 25 to 1,300 mg/kg. Based on detected concentrations, an upper limit for background concentrations is estimated at 12 mg/kg. Total chromium concentrations in excess of the California Human Health Screening Levels (CHHSLs), set by the State of California for total chromium (10,000 mg/kg) were not detected in any of the samples analyzed;
- Hexavalent chromium concentrations ranged from not detected (less than 0.24 mg/kg) to 1,800 mg/kg. Elevated hexavalent chromium concentrations (in excess of the CHHSLs of 37 mg/kg) were detected only in borings BP-3 at 15 feet, GW-1 at 20 and 25 feet, and in GW-2 at 15 feet bgs;
- Nickel concentrations ranged from 23 to 35,000 mg/kg. The upper limit of background concentrations is estimated at approximately 23 mg/kg. The CHHSL for nickel is 16,000

mg/kg. Elevated nickel concentrations (CHHSLs) were detected in boring GW-3 at 15 feet, BSL-11 at 10 and 15 feet, and in BSL-2 at 10 and 15 feet bgs;

- A total of six (6) volatile organic compounds (VOCs) were detected during the soil vapor survey: chloroethane, chloroform 1,1-Dichloroethene (1,1-DCE), tetrachloroethylene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), and trichloroethylene (TCE). The most frequently detected soil gas compounds were PCE and 1,1-DCE. PCE was detected in all eleven (11) vapor samples and ranged in concentration from 3.1 micrograms per liter (µg/L or parts per billion) to 8.6 µg/L. Detectable concentrations of 1,1-DCE were reported in all eleven samples and ranged in concentration from 0.24 µg/L to 4.5 µg/L. Concentrations of 1,1,1-TCA were detected in ten out of eleven samples and ranged in concentration from 0.032 µg/L to 0.16 µg/L. TCE was detected in four (4) samples and ranged in concentration from 0.17 µg/L to 0.19 µg/L. Maximum concentrations of the remaining VOC compounds detected were reported at 0.66 µg/L chloroethane and 0.99 µg/L chloroform. Soil gas results are summarized in Table 4;
- A total of four (4) VOC compounds were detected in the groundwater grab samples collected from the hydropunch borings: chloroform, 1,1-DCE, PCE, and TCE. Each of the four analytes were detected in all of the groundwater samples. Concentrations ranged from 11 µg/l (parts per billion) to 28 µg/l chloroform, 3.1 µg/l to 4.6µg/l 1,1-DCE, 220 µg/l to 490 µg/l PCE, and 3.0 µg/l to 6.5 µg/l TCE. A total of three (3) inorganic constituents were detected in groundwater and included chromium (1.0 to 2.3 mg/l), hexavalent chrome (0.004 to 0.91 mg/l), and nickel (1.2 and 61 mg/l). Groundwater grab sample results for the March 2006 investigation are summarized in Table 2-3;

The findings of the March 2006 investigation were submitted to DTSC in a report entitled *Phase II ESA - Foss Plating.* The report concluded that dissolved concentrations of chromium and hexavalent chromium exceeded the maximum contaminant level (MCL) in groundwater and that the nickel and hexavalent chromium concentrations exceeded human heath screening criteria. Further investigation was recommended by W&A concerning the installation of groundwater monitoring wells, a more detailed health risk assessment, the execution of a deed restriction, and the development of fate and transport models of subsurface contaminants.

2.5.7 Additional Site Assessment, 2007

Between August 4, 2006 and July 13, 2006, W&A prepared and submitted to DTSC a series of addendums to their Phase II ESA report. In response, DTSC conducted a Site visit on October 12, 2006, and itemized the tasks required to characterize the facility. In December 2006, DTSC conducted a technical exchange meeting at the Site to discuss the components of the required sampling activities. Pursuant to the December 2006 meeting, ASTECH

prepared and submitted a Sample and Analysis Plan (SAP) dated March 29, 2007. In a response letter dated May 1, 2007, DTSC conditionally accepted the proposed plan. Boring locations are shown on Figure 3. Chemical results are summarized in Tables 1 through 4. Results of the additional assessment are discussed below, and further discussed in context with the other investigations in Section 3.

From June 21, 2007 to August 2, 2007, ASTECH advanced a total of twenty-three (23) exploratory borings (EB1 through EB23), installed multiple depth soil vapor sample probes at seven locations (SV1 through SV6, and SV101), and collected twenty-two concrete core samples (CC1 through CC21). The portions of the former Site facility targeted during the assessment included the former stripping line, waste nickel storage pit, degreaser vault, and former plating line #2.

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The exploratory borings were advanced using a truck-mounted Geo-Probe 6600™ drill rig employing direct push sampling techniques. Sample locations with limited accessibility were cored using a portable Geo-Probe 420MT™ device. Groundwater was not encountered during the drilling activities to the maximum explored depth of 30-feet bgs.

A total of ten (10) metal compounds were detected in the soil samples collected during the investigation: arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, zinc, and hexavalent chromium (Chromium VI or Cr^{6+}). Of these, arsenic, total chromium, nickel and hexavalent chrome in select soil samples exceeded California-modified EPA Region IX Preliminary Remediation Goals (PRGs, 2004); select soil samples contained concentrations of total chromium, nickel and hexavalent chromium exceeding total threshold limit concentrations (TTLC); while a select samples contained concentrations of total chromium, total lead, nickel and hexavalent chromium exceeding soluble threshold limit concentrations (STLC).

Arsenic concentrations exceeding the DTSC-accepted background of 6 milligrams per kilogram (mg/kg) of arsenic in residential properties were observed in boring EB10 at 5 and 10 feet below ground surface (bgs). and in EB13 at 2 feet bgs. These concentrations

attenuated to 6 mg/kg or below by the next sampling interval. Concentrations of arsenic did not exceed TTLC or 10 times STLC values.

Total chromium was detected in all of the soil samples and ranged in concentration between 4 mg/kg and 8,537 mg/kg. Concentrations of total chromium exceeding PRG values were found in borings EB7 at 15 feet bgs, EB8 from 2 to 20 feet bgs, EB9 from 2 to 20 feet, EB10 (MW-2) from 5 to 30 feet, EB11 from 2 to 20 feet, and in EB13 at 2 feet bgs. Concentrations exceeding TTLC were found in boring EB9 from 2 to 20 feet bgs, and in boring EB10 (MW-2) at 10 feet bgs. Twenty four samples contained concentrations of total chromium exceeding 10 times the STLC.

Hexavalent chromium was detected at concentrations ranging from below detection limits (1-sample) to a maximum of 973.68 mg/kg. Twenty two of 27 samples analyzed contained concentrations of hexavalent chromium exceeding PRGs and 10 times the STLC. These samples were found in boring EB7 at 10 to 15 feet bgs, EB8 5 to 20 feet, in EB9 from 2 to 20 feet, in EB10 (MW-2) from 5 to 30 feet, and in EB11 from 2 to 20 feet bgs. Samples from EB7 at 15 feet, EB8 at 15 feet, EB9 at 20 feet, EB10 (MW-2) at 15 feet, and EB11 at 10 and 15 feet bgs contained hexavalent chromium concentrations exceeding TTLC values.

Approximately half the samples analyzed contained detectable concentrations of total lead. Total lead concentrations ranged from 2 to 102 mg/kg. Only one sample contained lead concentrations in excess of 10 times the STLC, in boring EB13 at 5 feet bgs. Lead concentrations detected in other samples did not exceed PRG or TTLC values.

Nickel was detected in all of the samples submitted for analysis and ranged in concentration between 4 mg/kg (parts per million) and 19,304 mg/kg. Concentrations of nickel exceeding PRG and TTLC values were found in boring EB2 from 2 to 20 feet bgs, EB3 from 2 to 10 feet, EB4 at 5 feet, EB5 at 10 and 15 feet bgs, EB6 (MW-1) from 5 to 15 feet, and EB13 at 2 feet bgs. Samples containing nickel concentrations exceeding 10 times the STLC include the above and EB5 at 2 and 5 feet, EB8 at 5 and 10 feet, EB9 at 5 feet, EB10 (MW-2) at 5 feet, EB11 at 10 feet, and EB15 at 5 feet.

A total of nine (9) metal compounds were detected in the concrete core samples: arsenic, barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc. Of these metals, only

arsenic, total chromium, copper, and nickel were found in concentrations exceeding either TTLC or 10 times the STLC. Nickel was detected in all of the concrete core samples and ranged in concentration between 16 mg/kg and 5,893 mg/kg. Total chromium was detected in all of the concrete core samples and ranged in concentration between 12 mg/kg and 5,561 mg/kg. Arsenic was detected in fifteen out of twenty-one concrete core samples and ranged in concentration between 4 mg/kg and 150 mg/kg. Additional Title-22 metal compounds were reported in concrete at maximum concentrations of 157 mg/kg barium, 26 mg/kg cobalt, 674 mg/kg copper, 309mg/kg lead, 19 mg/kg vanadium, and 223 mg/kg zinc. Waste Extraction Tests were performed on select concrete core samples and analyzed for arsenic, chromium, and nickel using EPA 6010B. Results indicate that core CC8 contained soluble arsenic concentrations in excess of STLCs, cores CC6, CC7 and CC11 contained soluble total chromium concentrations in excess of STLCs, and cores CC2, CC3, CC8, CC10, CC11, CC14, CC15, and CC16 contained soluble nickel concentrations in excess of STLC. Soluble arsenic was detected at 21.3 milligrams per liter (mg/l), soluble chromium ranged from 88.5 to 589.3 mg/l, and soluble nickel ranged from 21.3 to 948 mg/l.

A total of seven (7) volatile organic compounds(VOCs) were detected in soil samples collected during the investigation. VOCs detected include: benzene, chloroform, 1,1-Dichloroethene (1,1 DCE), tetrachloroethylene (PCE), toluene, ethylbenzene, and total xylenes. The most frequently detected compound was PCE which was present above method detection limits in all nine samples. All other VOCs were reported as single detections. PCE was detected in soil at concentrations ranging between 3 micrograms per kilogram (µg/kg, or parts per billion) and 35 µg/kg. Single detections of BTEX were reported in sample SV1-15' at 11 µg/kg benzene, 10 µg/kg toluene, 2 µg/kg ethylbenzene, and 7 µg/kg total xylenes. Single detections of chloroform and 1,1-dichloroethene were reported in soil at 8 µg/kg and 3 µg/kg, respectively.

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Two (2) VOCs were detected during the soil gas survey:: chloroform and tetrachloroethylene (PCE). PCE was reported in all 13 soil gas samples and ranged in concentration from 0.5 micrograms per liter (µg/L, parts per billion) to 22.6 µg/L. Chloroform was detected in 12 out of 13 samples and ranged in concentration between 1.2 µg/L and 5.3 µg/L.

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Soil sample analytical results did not indicate that significant releases of inorganics (metals) have occurred beneath the wastewater treatment vaults with the exception of sample point EB13. Metal concentrations detected in the 2-foot soil sample collected from Boring EB13 showed that three test constituents exceeded USEPA Region IX PRGs and included arsenic, total chromium, and nickel. Maximum concentrations of these compounds were reported in the 2-foot soil sample collected from EB13 at 7 mg/kg arsenic, 1,650 mg/kg total chromium, and 2,369 mg/kg nickel. Based on the reported concentration of total chrome, Sample EB13-2 was further analyzed for hexavalent chromium and determined to be 17.062 mg/kg. Further analysis of deeper soil samples collected from Boring EB13 showed that all of the constituents of concern attenuated to acceptable levels (below PRGs) at a depth of 5-feet bgs. Concentrations of nickel decreased from 2,369 mg/kg to 75 mg/kg between 2-5 feet bgs in Boring EB13, total chromium decreased from 1,650 mg/kg to 21 mg/kg between 2-5 feet bgs, and arsenic levels reduced from 7 mg/kg to 3 mg/kg.

PCE was detected in all of the 10-foot soil samples collected beneath the former waste water treatment vaults and ranged in concentration between 3 µg/kg and 20 µg/kg. The highest reported concentration of PCE (35 µg/kg) was reported in the 15-foot soil sample collected from beneath the former vapor degreaser (Boring EB12). pH was measured in soil samples collected from beneath the former vaults between 6.46 and 8.89 and is within acceptable limits based on State and Federal waste characterization criteria.

A total of four metal constituents were detected in soil samples above their respective USEPA Region IX PRGs and included arsenic, nickel, total chromium, and hexavalent chromium (Chromium $^{5+}$). Concentrations of these compounds detected in excess of their respective PRGs were reported at a frequency of seven samples for arsenic, twenty samples for nickel, twenty-one samples for total chromium, and twenty-one samples for Chromium $^{6+}$.

Arsenic often naturally occurs in soils at concentrations exceeding the risk based PRG value of 0.25 mg/kg (1 x 10^{-6} cancer risk). Therefore, an adjustment to the PRG is generally warranted because this value typically lies below background levels. Region IX has occasionally used the non-cancer endpoint of 22 mg/kg (EPA's acceptable target risk goal range of 10^{-6} to 10^{-4}) to evaluate sites upon considering background levels. The reported

arsenic concentrations detected in the soil samples collected during the investigation fall within this range with the exception of the 10-foot sample collected from Boring EB10.

Concentrations of chromium^{6+} were detected above the PRG (64 mg/kg) predominately in borings advanced in the southeastern portion of the Site building. The vertical extent of chromium^{6+} impact does not appear to attenuate with depth and most likely has impacted groundwater. Cr^{6+} was detected in the 30-foot sample collected from Boring EB10 at a concentration of 482.45 mg/kg.

Concentrations of total chromium exceeded the USEPA Region 9 PRG (448 mg/kg) in a total of twenty-one soil samples. The area of concern is located in the southeastern portion of Building #1 and was defined at 2-feet bgs by borings EB9 and EB10. The lateral limits of impact at 5-feet bgs were characterized by Borings EB8, EB9, and EB10. The extent of chromium impacts at 10-feet bgs was defined by borings EB8, EB9, EB10, EB11. The extent of total chromium detected in the facility yard areas (former wastewater treatment vault) was identified by Boring EB13.

Concentrations of nickel exceeded the USEPA Region 9 PRG (150 mg/kg) in a total of twenty-one soil samples. The area of impact from nickel is located in the northeastern portion of the interior of Building #1 and was defined in shallow soil (2-feet bgs) by borings EB2, EB3, EB4, and BSL 4. The lateral extent of nickel at 5-feet bgs was defined by borings EB2, EB3, EB4, EB5, EB6, BSL-6, BSL-7, EB8, EB9, EB10, and in the former wastewater treatment vaults EB13 and EB15. The lateral extent of nickel at 10-feet bgs was defined by borings EB2, EB3, EB5, BSL5, EB9, BSL9, and BSL12. The vertical extent of nickel impact in the AOCs was found to attenuate to acceptable levels between 15-20 feet bgs in the interior portion of the building and at 5 feet beneath the former wastewater treatment vaults.

2.5.8 Chemicals Previously Detected On Site

Samples collected during the various phases of investigation were analyzed based on chemicals typically (and documented as being) used at plating shops: VOCs, TPH, and metals. Select samples were also analyzed for cyanide, and pH. A summary of chemicals

detected at the Site, the media in which they were detected, frequency of detection, the concentration range, and regulatory limits are summarized in the following table.

Table 3.1.2 – Chemicals Previously Detected On Site

Chemical	Media	Frequency of Detection	Concentration Range	Regulatory Limit or Screening Level
Volatile Organic Compounds				
Acetone	Soil	5/26	26-83 µg/kg	5.4E+7 µg/kg [3]
Benzene	Soil	1/9	11 µg/kg	1,400 µg/kg [3] 44 I [7]
Bromoform	Soil	3/12	6-137 µg/kg	218,200 µg/kg [3]
Chloroethane	Soil Gas	2/20	0.25-0.66 µg/L	19.8 µg/L [8]
Chloroform	Soil	1/9	8 µg/kg	2,000 I [3]
Chloroform	Soil Gas	13/20	0.99-5.3 µg/L	5.15 µg/L [8]
Chloroform	Groundwater	¾	11-28 µg/L	100 µg/L [5]
1,1 Dichloroethene	Soil	1/9	3 µg/kg	413,325 I [3]
1,1 Dichloroethene	Soil Gas	7/20	0.24-4.5 µg/L	87 µg/L [8]
1,1 Dichloroethene	Groundwater	¾	3.1-5.7 µg/L	6 µg/L [5]
Ethylbenzene	Soil	1/9	2 µg/kg	395,000 I [3] 9,000 I [7]
Hexachlorobutadiene	Soil	1/	7 µg/kg	22,098 µg/kg [3]
Naphthalene	Soil	2/	5-23 µg/kg	4,200 µg/kg [3]
Tetrachloroethene	Soil	10/10	3-35 µg/kg	1,310 I [3]
Tetrachloroethene	Soil Gas	13/13	0.5-22.6 µg/L	5.94 µg/L [8]
Tetrachloroethene	Groundwater	4/4	220-520 µg/L	5 µg/L [5]
Toluene	Soil	1/9	10 µg/kg	520,000 µg/kg [3]
Total Xylenes	Soil	1/9	7 µg/kg	420,000 I [3] 24,500 I [7]
1,2,3 Trichlorobenzene	Soil	1/	19 µg/kg	Not listed
1,2,4 Trichlorobenzene	Soil	1/10	8 µg/kg	215,925 µg/kg [3]
1,1,1	Soil Gas	7/20	0.062-0.16 µg/L	1,420 µg/L [8]

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OK

OK?
OK?
BAD!

Table 3.1.2 – Chemicals Previously Detected On Site

Chemical	Media	Frequency of Detection	Concentration Range	Regulatory Limit or Screening Level
Trichloroethane				
Trichloroethene	Soil Gas	2/20	0.18-0.19 µg/L	16.4 µg/L [8]
Trichloroethene	Groundwater	4/4	3-5.2 µg/L	5 µg/L [5]
Metals				
Arsenic	Soil	31/43	2-10 mg/kg	0.24 mg/kg [4] Background
Arsenic	Concrete	14/21	3.2-150 mg/kg	500 mg/kg [1]
Barium	Soil	26/38	39-160 mg/kg	63,000 mg/kg [4]
Barium	Concrete	21/21	36-157 mg/kg	10,000 mg/kg [1]
Total Chromium	Soil	130/131	4-8,537 mg/kg	448 mg/kg [3]
Total Chromium	Concrete	24/24	12-6,407 mg/kg	2,500 mg/kg [1]
Total Chromium	Groundwater	3/3	0.89-2.3 mg/L	0.05 mg/L [5]
Chrome (IV)	Soil	47/57	0.064-1,800 mg/kg	37 mg/kg [4]
Chrome (IV)	Groundwater	3/3	0.004-0.91 mg/L	0.05 mg/L [5]
Cobalt	Soil	29/41	2-12 mg/kg	3,200 mg/kg [4]
Cobalt	Concrete	21/21	2-26 mg/kg	2,500 mg/kg [1]
Copper	Soil	29/41	2-159 mg/kg	38,000 mg/kg [4]
Copper	Concrete	21/21	2-674 mg/kg	2,500 mg/kg [1]
Lead	Soil	20/41	2-102 mg/kg	3,500 mg/kg [4] 800 mg/kg [3]
Lead	Concrete	20/21	1-309 mg/kg	1,000 mg/kg [1]
Molybdenum	Soil	3/41	0.2-0.4 mg/kg	4,800 mg/kg [4]
Nickel	Soil	130/131	4-35,000 mg/kg	16,000 mg/kg [4]
Nickel	Concrete	29/29	16-5,893 mg/kg	2,000 mg/kg [1]
Nickel	Groundwater	3/3	1.2-61 mg/L	100 mg/L [5]
Silver	Soil	2/41	0.3-0.4 mg/kg	4,800 mg/kg [4]
Vanadium	Soil	29/41	2-34 mg/kg	6,700 mg/kg [4]
Vanadium	Concrete	16/21	4-19 mg/kg	2,400 mg/kg [1]

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3.0 FIELD METHODS

This section describes the tasks and processes required to implement the proposed removal action.

3.1 SITE PREPARATION AND SECURITY MEASURES

Prior to commencement of drilling activities, the immediate work area where the drill rig will be stationed will be delineated with cones and caution tape and/or snow fence. In addition, while the work activities are taking place along Secura Way, cones will be placed in-front and around the rig to caution drivers.

3.1.1 Utility Clearance

The proposed boring locations will be marked in white paint and Underground Service Alert will be notified at least 48 hours prior to pending field work. In addition, the possible presence of utilities beneath and adjacent to the Site may be further evaluated by a professional utility locating company using geophysical methods.

3.1.2 Site Control and Security Measures

The Site is currently secured by a chain-linked fence, equipped with locking gates. Access to the work areas will be strictly regulated. Visitors will be directed to the Site Control Officer, where they will be logged in and advised of health and safety issues. Persons requesting Site access will be required to demonstrate a valid purpose for access and provide appropriate documentation to demonstrate they have received proper training required by the Site specific HASP. All site workers and visitors in the work area will be required to wear appropriate personal protective equipment (PPE).

3.1.3 Permits and Plans

Permits for the collection of groundwater samples and/or the installation of the proposed groundwater monitoring wells will be obtained from the Los Angeles County Department of Environmental Health. The required permit application will be prepared and submitted to the Bureau of Environmental Protection, Water, Sewage & Sub Division Control Program.

Table 3.1.2 – Chemicals Previously Detected On Site

Chemical	Media	Frequency of Detection	Concentration Range	Regulatory Limit or Screening Level
Zinc	Soil	29/41	13-137 mg/kg	100,000 mg/kg [4]
Zinc	Concrete	21/21	18-233 mg/kg	5,000 mg/kg [1]

Notes:
µg/kg microgram per kilogram
mg/kg milligram per kilogram
µg/L microgram per liter
[1] Total Threshold Limit Concentration (TTLC)
[2] Soluble Threshold Limit Concentration (STLC)
[3] Preliminary Remediation Goals 2004 (PRG), for commercial properties
[4] California Health Soil Screening Levels, 2005 (CHSSL) for commercial properties
[5] Maximum Contaminant Limit (MCL)
[6] LeadSpread – commercial occupation
[7] LARWQCB 1996 Interim Site Assessment & Cleanup Guidebook, Table 4-1, assuming 20 above water table and clayey soil
[8] Risk-Based-Concentration, calculated using CA HERD-modified (2005) Johnson & Ettinger model, using Goal seek to find Risk of 1E-5 and/or Hazard of 1. Calculation sheets attached in Appendix C.

Based on the above, chemicals exceeding their associated regulatory or screening limits include PCE, TCE (in soil gas and groundwater), total chromium (in concrete, soil and groundwater), hexavalent chromium (in soil), and nickel (in concrete and soil).

2.5.9 Background Chemicals

Certain chemicals occur naturally in soil (as minerals), while others are anthropologically deposited over wide areas. In order to evaluate if activities at a facility have negatively affected the underlying soil, it is important to evaluate naturally occurring and anthropologic background concentrations, particularly for those chemicals where published cleanup levels are below typical background levels. The evaluation of background concentrations for arsenic, total chromium, and nickel presented below are in accordance with procedures published by DTSC (1997). Calculations are attached as Appendix C.

Results of background evaluations for specific metals suggest the following:

Table 3.1.3 – Background Metal Concentrations			
Metal	Distribution Type	Background Range (mg/kg)	UCL95 (mg/kg)
Arsenic	Other	2-10.5	5
Total Chromium	Normal & LogN	4-16	10.89
Nickel	Normal and LogN	4-23	16.94
Notes: mg/kg – milligrams per kilogram			

2.6 CHEMICALS OF POTENTIAL CONCERN (COPC)

Chemicals of potential concern (COPC), based on the above evaluations, include the VOCs PCE, and chloroform; and the metals total chromium, hexavalent chromium, and nickel.

2.7 REGIONAL WATER QUALITY CONTROL BOARD

The California Water Quality Control Board – Los Angeles Region (4) (LARWQCB) is the local regional board overseeing water quality in the Los Angeles Basin area. While concentrations of chromium exceed current MCLs, the local (up-gradient) shallow groundwater is contaminated with VOCs from off-Site, up-gradient sources. These sources include Mission Linen and the former Omega Chemical facility. To assist in monitoring groundwater conditions beneath the Site, ASTECH will install up to four (4) groundwater monitoring wells at the Site. Semi-annual groundwater monitoring reports will be submitted to DTSC, and copied to the LARWQCB.

FOSS PLATING COMPANY
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

ATTACHMENT B
INFORMATION REQUEST

1. Foss Plating Company, Inc
   8140 Secura Way
   Santa Fe Springs CA 90670

Randall Foss	Carol Foss McCracken
Vice President	Secretary Treasurer, Bookkeeper
Since 1986	Since 1980
Cell: 714-415-8898	

2. Foss Plating Company ceased doing business at a plating company on October 15, 2005.

   While no longer a plating facility, Foss Plating finished closure under the oversight of the Santa Fe Springs CUPA, Los Angeles County Sanitation District and DTSC.

   The Corporation remains intact, and now operates as landlord for the building to several other businesses on an annual basis. Leases available upon request.

3. Since the Corporation continues to function, all outstanding debts continue to be settled in a timely fashion. This includes the bank loan, now at $201,390.97 with monthly payments of $2,979.70 Debts also includes DTSC, now at $4,922.06 with monthly payments of $527.42.

   To finance closure activity, including waste disposal with manifests, ground testing, and the use of consultants to prepare reports and plans for DTSC, officers and directors have made numerous loans to the business. As of July 31, 2013, these notes were:

Stanley Foss	155,061.30
Donald Foss	513,281.76
Victor Foss	9,216.65
Randall Foss	7,958.01
Edward Foss	11,800.00
Carol Foss McCracken	6,320.00

4. a. Close of business, as a plating facility, October 15, 2005
   b. Shareholders at shutdown:
      President: Victor Foss 3 1/3%
      12628 Putnam

Whittier CA 90602		
Vice President: Randall Foss	3 1/3%	
7918 Friends Ave		
Whittier CA 90602		
Vice President: Edward Foss	3 1/3%	
15129 Caravaca		
La Mirada CA 90638		
Directors:		
Donald Foss	45%	
1400 South Sunkist St, Sp 43		
Anaheim CA 92806		
Stanley Foss	45%	Died August, 2013
6006 S. Bright Ave		
Whittier CA 90601		

c. All possible assets were sold by the Corporation to pay outstanding debts and and to finance all closure activity. No assets were distributed to shareholders.

d. A schedule of the remaining assets is included in this report.

e-f. Records of all documents relating to the Corporation, closure activity, and so on are located in a small office located at 8140 Secura Way.

5. All business records of Foss Plating Company are located in a small office and closet located at 8140 Secura Way, Santa Fe Springs CA 90670. This includes documents relating to the disposal of any hazardous substances, hazardous waste or solid waste generated on the Secura Way property. No substances were sent to Omega Chemical

6. There is no successor company.

7. Foss Plating is not a subsidiary of another corporation

8-9. Information of the sale of assets is lengthy, and most is available on request.

10. RANDY

11. Remaining assets are those related to the building and property, along with some furniture and office equipment, including a computer. The only asset that might be of interest is the Backflow Prevention Device.

Balance Sheet Value of Assets as of July 30, 2013

Building	80,240.52
Less accumulated depreciation	(76,240.07
Improvements	69,212.99
Less accumulated depreciation	(60,486.89)
Equipment	3,813.34

Less accumulated depreciation	(3,813.34)
Office furniture & fixtures	7,239.74
Less accumulated depreciation	(6,928.75)
Land	13,500.00
Total	26,537.54

12. Randy

13.
Randy

14. Randy

M Groundwater
Well Sampling

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

May 11, 2012 ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
25742 Calle Ricardo
San Juan Capistrano, CA 92675

Project: Former Foss Plating
C&E ID: 120502A

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on May 2, 2012, and analyzed as indicated in the attached chain-of-custody.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please contact me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Enviromental	Date Sampled:	05/02/12
Project Manager:	Andy Schmitt	Date Analyzed:	05/03/12
Project Name:	Former Foss Plating	Date Reported:	05/04/12
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	120502A-1		120502A-2		120502A-3		120502A-4		120502A-5	
SAMPLE ID	MW2-5		MW2-10		MW2-15		MW2-20		MW2-25	
DF	1		1		1		1		1	
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	ND	1	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	ND	2	ND	2	ND	2	ND	2	ND	2
Bromoform	ND	5	ND	5	ND	5	ND	5	ND	5
Bromomethane	ND	2	ND	2	ND	2	ND	2	ND	2
2-Butanone (MEK)	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Disulfide	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Tetrachloride	ND	2	ND	2	ND	2	ND	2	ND	2
Chlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
Chloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Chloroform	ND	2	ND	2	ND	2	ND	2	ND	2
Chloromethane	ND	5	ND	5	ND	5	ND	5	ND	5
Cyclohexane	ND	2	ND	2	ND	2	ND	2	ND	2
Dibromochloromethane	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromo-3-Chloropropane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dibromoethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,3-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,4-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
Dichlorodifluoromethane	ND	5	ND	5	ND	5	ND	5	ND	5
1,1-Dichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
cis-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
trans-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichloropropane	ND	2	ND	2	ND	2	ND	2	ND	2

To be continued on page 2

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Enviromental	Date Sampled:	05/02/12
Project Manager:	Andy Schmitt	Date Analyzed:	05/03/12
Project Name:	Former Foss Plating	Date Reported:	05/04/12
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	120502A-1	120502A-2	120502A-3	120502A-4	120502A-5
SAMPLE ID	MW2-5	MW2-10	MW2-15	MW2-20	MW2-25
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	ND	2
cis-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	ND	2
Ethylbenzene	ND	1	ND	1	4	1	3	1	4	1
2-Hexanone	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetate	ND	2	ND	2	ND	2	ND	2	ND	2
Methylcyclohexane	ND	2	ND	2	ND	2	ND	2	ND	2
Methylene Chloride	ND	2	ND	2	ND	2	ND	2	ND	2
4-Methyl-2-Pentanone	ND	2	ND	2	ND	2	ND	2	ND	2
Styrene	ND	2	ND	2	ND	2	ND	2	ND	2
Isopropylbenzene	ND	2	ND	2	ND	2	ND	2	ND	2
4-Isopropyltoluene	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2,2-Tetrachloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Tetrachloroethene	ND	2	ND	2	8	2	13	2	36	2
Toluene	ND	1	ND	1	3	1	3	1	4	1
1,2,4-Trichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,1-Trichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2-Trichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Trichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
Trichlorofluoromethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2-Trichlorotrifluoroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Vinyl Chloride	ND	5	ND	5	ND	5	ND	5	ND	5
Total Xylenes	ND	1	ND	1	24	1	16	1	25	1

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	101	104	104	103	106
1,2-Dichloroethane-d4	106	108	111	111	110
Toluene-D8	92	92	90	91	92
4-Bromofluorobenzene	100	99	98	94	98

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Enviromental	Date Sampled:	05/02/12
Project Manager:	Andy Schmitt	Date Analyzed:	05/03/12
Project Name:	Former Foss Plating	Date Reported:	05/04/12
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	120502A-6	120502A-7	120502A-8	120502A-10	
SAMPLE ID	MW2-30	MW2-35	MW2-40	MW2-50	
DF	1	1	1	1	

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5	ND	5	ND	5	ND	5		
Benzene	ND	1	ND	1	ND	1	ND	1		
Bromodichloromethane	ND	2	ND	2	ND	2	ND	2		
Bromoform	ND	5	ND	5	ND	5	ND	5		
Bromomethane	ND	2	ND	2	ND	2	ND	2		
2-Butanone (MEK)	ND	2	ND	2	ND	2	ND	2		
Carbon Disulfide	ND	2	ND	2	ND	2	ND	2		
Carbon Tetrachloride	ND	2	ND	2	ND	2	ND	2		
Chlorobenzene	ND	2	ND	2	ND	2	ND	2		
Chloroethane	ND	2	ND	2	ND	2	ND	2		
Chloroform	ND	2	ND	2	ND	2	ND	2		
Chloromethane	ND	5	ND	5	ND	5	ND	5		
Cyclohexane	ND	2	ND	2	ND	2	ND	2		
Dibromochloromethane	ND	5	ND	5	ND	5	ND	5		
1,2-Dibromo-3-Chloropropane	ND	2	ND	2	ND	2	ND	2		
1,2-Dibromoethane	ND	2	ND	2	ND	2	ND	2		
1,2-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2		
1,3-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2		
1,4-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2		
Dichlorodifluoromethane	ND	5	ND	5	ND	5	ND	5		
1,1-Dichloroethane	ND	2	ND	2	ND	2	ND	2		
1,2-Dichloroethane	ND	2	ND	2	ND	2	ND	2		
1,1-Dichloroethene	5	2	ND	2	ND	2	ND	2		
cis-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2		
trans-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2		
1,2-Dichloropropane	ND	2	ND	2	ND	2	ND	2		

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Enviromental	Date Sampled:	05/02/12
Project Manager:	Andy Schmitt	Date Analyzed:	05/03/12
Project Name:	Former Foss Plating	Date Reported:	05/04/12
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	120502A-6		120502A-7		120502A-8		120502A-10		
SAMPLE ID	MW2-30		MW2-35		MW2-40		MW2-50		
DF	1		1		1		1		
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result RL
trans-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	
cis-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	
Ethylbenzene	4	1	ND	1	ND	1	ND	1	
2-Hexanone	ND	2	ND	2	ND	2	ND	2	
Methyl Acetate	ND	2	ND	2	ND	2	ND	2	
Methylcyclohexane	ND	2	ND	2	ND	2	ND	2	
Methylene Chloride	ND	2	ND	2	ND	2	ND	2	
4-Methyl-2-Pentanone	ND	2	ND	2	ND	2	ND	2	
Styrene	ND	2	ND	2	ND	2	ND	2	
Isopropylbenzene	ND	2	ND	2	ND	2	ND	2	
4-Isopropyltoluene	ND	2	ND	2	ND	2	ND	2	
1,1,2,2-Tetrachloroethane	ND	2	ND	2	ND	2	ND	2	
Tetrachloroethene	16	2	ND	2	ND	2	7	2	
Toluene	3	1	ND	1	ND	1	ND	1	
1,2,4-Trichlorobenzene	ND	2	ND	2	ND	2	ND	2	
1,1,1-Trichloroethane	ND	2	ND	2	ND	2	ND	2	
1,1,2-Trichloroethane	ND	2	ND	2	ND	2	ND	2	
Trichloroethene	ND	2	ND	2	ND	2	ND	2	
Trichlorofluoromethane	ND	2	ND	2	ND	2	ND	2	
1,1,2-Trichlorotrifluoroethane	ND	2	ND	2	ND	2	ND	2	
Vinyl Chloride	ND	5	ND	5	ND	5	ND	5	
Total Xylenes	22	1	ND	1	ND	1	ND	1	

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	106	104	105	101	
1,2-Dichloroethane-d4	112	106	107	107	
Toluene-D8	90	92	91	91	
4-Bromofluorobenzene	97	98	96	96	

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Enviromental	Date Sampled:	05/02/12
Project Manager:	Andy Schmitt	Date Analyzed:	05/04/12
Project Name:	Former Foss Plating	Date Reported:	05/09/12
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	120502A-1	120502A-2	120502A-3	120502A-4	120502A-5
SAMPLE ID	MW2-5	MW2-10	MW2-15	MW2-20	MW2-25
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Arsenic (As)	6010B	ND	1	ND	1	ND	1	5	1	ND	1
Barium (Ba)	6010B	85	1	49	1	77	1	219	1	91	1
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	2	0.5	ND	0.5
Chromium (Cr)	6010B	13	1	10	1	15	1	20	1	19	1
Cobalt (Co)	6010B	8	1	5	1	6	1	10	1	10	1
Copper (Cu)	6010B	26	1	21	1	36	1	35	1	36	1
Lead (Pb)	6010B	3	1	3	1	4	1	6	1	4	1
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Nickel (Ni)	6010B	18	1	11	1	14	1	32	1	17	1
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2	ND	2
Vanadium (V)	6010B	41	1	32	1	50	1	75	1	64	1
Zinc (Zn)	6010B	26	1	15	1	22	1	57	1	41	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Enviromental	Date Sampled:	05/02/12
Project Manager:	Andy Schmitt	Date Analyzed:	05/04/12
Project Name:	Former Foss Plating	Date Reported:	05/09/12
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	120502A-6	120502A-7	120502A-8	120502A-10	
SAMPLE ID	MW2-30	MW2-35	MW2-40	MW2-50	
DF	1	1	1	1	

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	2	ND	2	ND	2	ND	2		
Arsenic (As)	6010B	ND	1	ND	1	ND	1	ND	1		
Barium (Ba)	6010B	113	1	33	1	19	1	20	1		
Beryllium (Be)	6010B	ND	1	ND	1	ND	1	ND	1		
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5		
Chromium (Cr)	6010B	19	1	9	1	5	1	10	1		
Cobalt (Co)	6010B	11	1	4	1	3	1	4	1		
Copper (Cu)	6010B	48	1	12	1	9	1	14	1		
Lead (Pb)	6010B	5	1	2	1	1	1	2	1		
Mercury (Hg)	7471	ND	0.1	ND	0.1	ND	0.1	ND	0.1		
Molybdenum (Mo)	6010B	ND	1	ND	1	ND	1	ND	1		
Nickel (Ni)	6010B	18	1	6	1	4	1	5	1		
Selenium (Se)	6010B	ND	2	ND	2	ND	2	ND	2		
Silver (Ag)	6010B	ND	1	ND	1	ND	1	ND	1		
Thallium (Tl)	6010B	ND	2	ND	2	ND	2	ND	2		
Vanadium (V)	6010B	69	1	22	1	14	1	17	1		
Zinc (Zn)	6010B	39	1	19	1	11	1	14	1		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 7196 (Hexavalent Chromium) ---

Client Name:	Astech Enviromental	Date Sampled:	05/02/12
Project Manager:	Andy Schmitt	Date Analyzed:	05/04/12
Project Name:	Former Foss Plating	Date Reported:	05/09/12
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
120502A-1	MW2-5	1	ND	0.05
120502A-2	MW2-10	1	ND	0.05
120502A-3	MW2-15	1	1.55	0.05
120502A-4	MW2-20	1	ND	0.05
120502A-5	MW2-25	1	ND	0.05
120502A-6	MW2-30	1	ND	0.05
120502A-7	MW2-35	1	ND	0.05
120502A-8	MW2-40	1	ND	0.05
120502A-10	MW2-50	1	ND	0.05

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in Soil) ---

I. Laboratory Control Sample

Date Analyzed: 05/03/12
LCS ID: VOC120503LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	100	70-130
Benzene	100	70-130
Trichloroethene	105	70-130
Toluene	95	70-130
Chlorobenzene	90	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 05/03/12
QC Batch: VOC120503MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	105	100	5	70-130	20
Benzene	100	100	0	70-130	20
Trichloroethene	110	105	5	70-130	20
Toluene	95	95	0	70-130	20
Chlorobenzene	95	95	0	70-130	20

III. Method Blank

Date Analyzed: 05/03/12

Unit: µg/kg

COMPOUND	Reporting Limit	RESULT
Acetone	5	ND
Benzene	1	ND
Bromodichloromethane	2	ND
Bromoform	2	ND
Bromomethane	2	ND
2-Butanone (MEK)	2	ND
Carbon Disulfide	2	ND
Carbon Tetrachloride	2	ND
Chlorobenzene	2	ND
Chloroethane	2	ND
Chloroform	2	ND
Chloromethane	5	ND
Cyclohexane	2	ND
Dibromochloromethane	2	ND
1,2-Dibromo-3-Chloropropane	2	ND
1,2-Dibromoethane	2	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	2	ND
1,3-Dichlorobenzene	2	ND
1,4-Dichlorobenzene	2	ND
Dichlorodifluoromethane	2	ND
1,1-Dichloroethane	2	ND
1,2-Dichloroethane	2	ND
1,1-Dichloroethene	2	ND
cis-1,2-Dichloroethene	2	ND
trans-1,2-Dichloroethene	2	ND
1,2-Dichloropropane	2	ND
trans-1,3-Dichloropropene	2	ND
cis-1,3-Dichloropropene	2	ND
Ethylbenzene	1	ND
2-Hexanone	2	ND
Methyl Acetate	2	ND
Methylcyclohexane	2	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	2	ND
4-Methyl-2-Pentanone	2	ND
Styrene	2	ND
Isopropylbenzene	2	ND
4-Isopropyltoluene	2	ND
1,1,2,2-Tetrachloroethane	2	ND
Tetrachloroethene	2	ND
Toluene	1	ND
1,2,4-Trichlorobenzene	2	ND
1,1,1-Trichloroethane	2	ND
1,1,2-Trichloroethane	2	ND
Trichloroethene	2	ND
Trichlorofluoromethane	2	ND
1,1,2-Trichlorotrifluoroethane	2	ND
Vinyl Chloride	5	ND
Total Xylenes	1	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	99
1,2-Dichloroethane-d4	102
Toluene-D8	93
4-Bromofluorobenzene	110

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Metals in soil) ---

I. Laboratory Control Sample

Date Analyzed: 05/04/12
LCS ID: MET120504LC

ANALYTE	LCS %	ACP %CL
Arsenic	114	70-130
Selenium	112	70-130
Cadmium	110	70-130
Lead	119	70-130
Barium	117	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 05/04/12
QC Batch #: MET120504MS

ANALYTE	MS %	MSD %	RPD	ACP %CL	ACP RPD
Arsenic	112	112	0	70-130	20
Selenium	113	114	1	70-130	20
Cadmium	112	113	1	70-130	20
Lead	120	120	0	70-130	20
Barium	119	119	0	70-130	20

III. Method Blank

Date Analyzed: 05/04/12

Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Antimony (Sb)	2	ND
Arsenic (As)	1	ND
Barium (Ba)	1	ND
Berryllium (Be)	1	ND
Cadmium (Cd)	0.5	ND
Chromium (Cr)	1	ND
Cobalt (Co)	1	ND
Copper (Cu)	1	ND
Lead (Pb)	1	ND

COMPOUND	REPORTING LIMIT	RESULT
Mercury (Hg)	0.1	ND
Molybdenum (Mo)	1	ND
Nickel (Ni)	1	ND
Selenium (Se)	2	ND
Silver (Ag)	1	ND
Thallium (Tl)	2	ND
Vanadium (V)	1	ND
Zinc (Zn)	1	ND

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 7196 (Chromium VI in Soil) ---

I. Laboratory Control Sample

Date Analyzed: 05/04/12
LCS ID: Cr120504LC

ANALYTE	LCS %	ACP %CL
Chromium VI	102	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 05/04/12
QC Batch : Cr120504MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Chromium VI	96	98	2	70-130	20

III. Method Blank

Date Analyzed: 05/04/12 Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Chromium VI	0.05	ND

ND = Not detected at the indicated reporting limit.

14148 E.Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

C&E LAB ID: 205,02A

Company Name:	Astech Environmental	Site Address:	8140 Secura Way, Santa Fe Springs
Project Manager:	Andy Schmitt		
Project No./Name:	Former Foss Plating		
Tel: 949 338 4557	Fax: 949 521 7707	Sampled By:	A. Schmitt

Page 1 of

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TPPH	8260B BTEX OXY	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD	Cr OT Hex Cr
1	MW2-5	5/2/12	0758	SOIL	(3) 5035 (1)										
2	10		0803		(3) 5035 (1) PL										
3	15		0810												
4	20		0819												
5	25		0825												
6	30		0832												
7	35		0839		(3) 5035 (1) PL										
8	40		0842												
9	45	5/2/12		Soil	No Recovery										
10	50	5/2/12	0856	Soil	(3) 5035 (1)										

Relinquished By: Andy Schmitt	Date/Time: 5/2/12 1230	Received By: Claire Zhang	Date/Time: 5/2/12	EDF Required: (circle) Yes No	
Relinquished By:	Date/Time	Received By:	Date/Time:	EDF Global ID No.: T_____	Comments:

FOSS PLATING COMPANY, INC
SUMMARY OF OUTSTANDING OBLIGATIONS
June 20, 2013

Popular Community Bank

Note dated April 25, 2022 in the amount of $353,127.72, payable in monthly installments of $2979.70. Interest is currently at 6.5%. The interest is recalculated annually in May, and is based on the 5-year Treasury Securities Index, Plus 3.25%. The note is collateralized by a First Trust Deed Real estate.

Current Balance, 6/7/13		205,096.03

DTSC

Payment Agreement, dated February 1, 2012 in the Amount of $14,013.97 in monthly installments of $527.42

Current Balance, 5/10/13		4,922.06

Stockholders and Officers notes

These notes have no set maturity date, and are contingent On finishing clean up of the property.

Stanley Foss, ground work	45,011.75	
Stanley Foss #2	110,049.55	
Donald Foss, ground work	97,894.86	
Donald Foss, #3	229,652.65	
Donald Foss #4	29,490.95	
Edward Foss	11,027.33	
Carol Foss	18,799.09	
Carol Foss McCracken	6,320.00	
Victor Foss	8,443.99	
Randall Foss	7,185.34	
Total Stockholders and Officers 5/31/13		563,875.51

Accounts Payable, May 31, 2013	12,741.95

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

August 20, 2012 ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
25742 Calle Ricardo
San Juan Capistrano, CA 92675

Project: Former Foss Plating
C&E ID: 120814C

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on August 14, 2012, and analyzed as indicated in the attached chain-of-custody.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please contact me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

13824 Bentley Place, Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Environmental	Date Sampled:	08/14/12
Project Manager:	Andy Schmitt	Date Analyzed:	08/15/12
Project Name:	Former Foss Plating	Date Reported:	08/16/12
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	120814C-1	120814C-2	120814C-3	120814C-4	120814C-5
SAMPLE ID	MW2-10	MW2-15	MW2-20	MW2-25	MW2-30
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	ND	1	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	ND	2	ND	2	ND	2	ND	2	ND	2
Bromoform	ND	5	ND	5	ND	5	ND	5	ND	5
Bromomethane	ND	2	ND	2	ND	2	ND	2	ND	2
2-Butanone (MEK)	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Disulfide	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Tetrachloride	ND	2	ND	2	ND	2	ND	2	ND	2
Chlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
Chloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Chloroform	ND	2	ND	2	ND	2	ND	2	ND	2
Chloromethane	ND	5	ND	5	ND	5	ND	5	ND	5
Cyclohexane	ND	2	ND	2	ND	2	ND	2	ND	2
Dibromochloromethane	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromo-3-Chloropropane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dibromoethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,3-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,4-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
Dichlorodifluoromethane	ND	5	ND	5	ND	5	ND	5	ND	5
1,1-Dichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
cis-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
trans-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
1,2-Dichloropropane	ND	2	ND	2	ND	2	ND	2	ND	2

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Environmental	Date Sampled:	08/14/12
Project Manager:	Andy Schmitt	Date Analyzed:	08/15/12
Project Name:	Former Foss Plating	Date Reported:	08/16/12
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	120814C-1	120814C-2	120814C-3	120814C-4	120814C-5
SAMPLE ID	MW2-10	MW2-15	MW2-20	MW2-25	MW2-30
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	ND	2
cis-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2	ND	2
Ethylbenzene	ND	1	ND	1	ND	1	ND	1	ND	1
2-Hexanone	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetate	ND	2	ND	2	ND	2	ND	2	ND	2
Methylcyclohexane	ND	2	ND	2	ND	2	ND	2	ND	2
Methylene Chloride	ND	2	ND	2	ND	2	ND	2	ND	2
4-Methyl-2-Pentanone	ND	2	ND	2	ND	2	ND	2	ND	2
Styrene	ND	2	ND	2	ND	2	ND	2	ND	2
Isopropylbenzene	ND	2	ND	2	ND	2	ND	2	ND	2
4-Isopropyltoluene	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2,2-Tetrachloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Tetrachloroethene	ND	2	15	2	18	2	10	2	17	2
Toluene	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,1-Trichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2-Trichloroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Trichloroethene	ND	2	ND	2	ND	2	ND	2	ND	2
Trichlorofluoromethane	ND	2	ND	2	ND	2	ND	2	ND	2
1,1,2-Trichlorotrifluoroethane	ND	2	ND	2	ND	2	ND	2	ND	2
Vinyl Chloride	ND	5	ND	5	ND	5	ND	5	ND	5
Total Xylenes	ND	1	3	1	ND	1	2	1	ND	1

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	107	110	110	123	126
1,2-Dichloroethane-d4	97	103	100	125	122
Toluene-D8	95	96	94	91	95
4-Bromofluorobenzene	105	106	104	104	105

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

13824 Bentley Place, Cerritos CA 90703 Tel: 800-214-0845, Fax: 562-926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Environmental	Date Sampled:	08/14/12
Project Manager:	Andy Schmitt	Date Analyzed:	08/15/12
Project Name:	Former Foss Plating	Date Reported:	08/16/12
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	120814C-6	120814C-7	120814C-8	120814C-9	
SAMPLE ID	MW2-35	MW2-40	MW2-45	MW2-50	
DF	1	1	1	1	

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	5	ND	5	ND	5	ND	5		
Benzene	ND	1	ND	1	ND	1	ND	1		
Bromodichloromethane	ND	2	ND	2	ND	2	ND	2		
Bromoform	ND	5	ND	5	ND	5	ND	5		
Bromomethane	ND	2	ND	2	ND	2	ND	2		
2-Butanone (MEK)	ND	2	ND	2	ND	2	ND	2		
Carbon Disulfide	ND	2	ND	2	ND	2	ND	2		
Carbon Tetrachloride	ND	2	ND	2	ND	2	ND	2		
Chlorobenzene	ND	2	ND	2	ND	2	ND	2		
Chloroethane	ND	2	ND	2	ND	2	ND	2		
Chloroform	ND	2	ND	2	ND	2	ND	2		
Chloromethane	ND	5	ND	5	ND	5	ND	5		
Cyclohexane	ND	2	ND	2	ND	2	ND	2		
Dibromochloromethane	ND	5	ND	5	ND	5	ND	5		
1,2-Dibromo-3-Chloropropane	ND	2	ND	2	ND	2	ND	2		
1,2-Dibromoethane	ND	2	ND	2	ND	2	ND	2		
1,2-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2		
1,3-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2		
1,4-Dichlorobenzene	ND	2	ND	2	ND	2	ND	2		
Dichlorodifluoromethane	ND	5	ND	5	ND	5	ND	5		
1,1-Dichloroethane	ND	2	ND	2	ND	2	ND	2		
1,2-Dichloroethane	ND	2	ND	2	ND	2	ND	2		
1,1-Dichloroethene	ND	2	ND	2	ND	2	ND	2		
cis-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2		
trans-1,2-Dichloroethene	ND	2	ND	2	ND	2	ND	2		
1,2-Dichloropropane	ND	2	ND	2	ND	2	ND	2		

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Environmental	Date Sampled:	08/14/12
Project Manager:	Andy Schmitt	Date Analyzed:	08/15/12
Project Name:	Former Foss Plating	Date Reported:	08/16/12
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	120814C-6	120814C-7	120814C-8	120814C-9	
SAMPLE ID	MW2-35	MW2-40	MW2-45	MW2-50	
DF	1	1	1	1	

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2		
cis-1,3-Dichloropropene	ND	2	ND	2	ND	2	ND	2		
Ethylbenzene	ND	1	ND	1	ND	1	ND	1		
2-Hexanone	ND	2	ND	2	ND	2	ND	2		
Methyl Acetate	ND	2	ND	2	ND	2	ND	2		
Methylcyclohexane	ND	2	ND	2	ND	2	ND	2		
Methylene Chloride	ND	2	ND	2	ND	2	ND	2		
4-Methyl-2-Pentanone	ND	2	ND	2	ND	2	ND	2		
Styrene	ND	2	ND	2	ND	2	ND	2		
Isopropylbenzene	ND	2	ND	2	ND	2	ND	2		
4-Isopropyltoluene	ND	2	ND	2	ND	2	ND	2		
1,1,2,2-Tetrachloroethane	ND	2	ND	2	ND	2	ND	2		
Tetrachloroethene	19	2	3	2	ND	2	3	2		
Toluene	ND	1	ND	1	ND	1	ND	1		
1,2,4-Trichlorobenzene	ND	2	ND	2	ND	2	ND	2		
1,1,1-Trichloroethane	ND	2	ND	2	ND	2	ND	2		
1,1,2-Trichloroethane	ND	2	ND	2	ND	2	ND	2		
Trichloroethene	7	2	ND	2	ND	2	ND	2		
Trichlorofluoromethane	ND	2	ND	2	ND	2	ND	2		
1,1,2-Trichlorotrifluoroethane	ND	2	ND	2	ND	2	ND	2		
Vinyl Chloride	ND	5	ND	5	ND	5	ND	5		
Total Xylenes	5	1	ND	1	ND	1	ND	1		

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	120	120	111	115	
1,2-Dichloroethane-d4	107	107	100	102	
Toluene-D8	96	94	95	97	
4-Bromofluorobenzene	106	106	104	104	

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	08/14/12
Project Manager:	Andy Schmitt	Date Analyzed:	08/16/12
Project Name:	Former Foss Plating	Date Reported:	08/17/12
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	120814C-1	120814C-2	120814C-3	120814C-4	120814C-5
SAMPLE ID	MW2-10	MW2-15	MW2-20	MW2-25	MW2-30
DF	1	1	1	1	1

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Arsenic (As)	6010B	ND	1	ND	1	ND	1	ND	1	ND	1
Barium (Ba)	6010B	89	1	100	1	107	1	37	1	149	1
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Chromium (Cr)	6010B	15	1	15	1	17	1	9	1	19	1
Cobalt (Co)	6010B	7	1	8	1	10	1	5	1	9	1
Copper (Cu)	6010B	25	1	26	1	32	1	20	1	43	1
Lead (Pb)	6010B	2	1	3	1	5	1	2	1	4	1
Nickel (Ni)	6010B	10	1	15	1	18	1	7	1	14	1
Vanadium (V)	6010B	48	1	59	1	73	1	24	1	66	1
Zinc (Zn)	6010B	34	1	33	1	40	1	19	1	37	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

13824 Bentley Place, Cerritos, CA 90703 Tel: 800-214-0845, Fax: 562-926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech Environmental	Date Sampled:	08/14/12
Project Manager:	Andy Schmitt	Date Analyzed:	08/16/12
Project Name:	Former Foss Plating	Date Reported:	08/17/12
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	120814C-6	120814C-7	120814C-8	120814C-9	
SAMPLE ID	MW2-35	MW2-40	MW2-45	MW2-50	
DF	1	1	1	1	

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Arsenic (As)	6010B	ND	1	ND	1	ND	1	ND	1		
Barium (Ba)	6010B	114	1	23	1	22	1	17	1		
Cadmium (Cd)	6010B	ND	0.5	ND	0.5	ND	0.5	ND	0.5		
Chromium (Cr)	6010B	18	1	13	1	8	1	8	1		
Cobalt (Co)	6010B	7	1	3	1	3	1	2	1		
Copper (Cu)	6010B	42	1	12	1	11	1	10	1		
Lead (Pb)	6010B	2	1	1	1	1	1	1	1		
Nickel (Ni)	6010B	12	1	8	1	6	1	9	1		
Vanadium (V)	6010B	56	1	18	1	15	1	14	1		
Zinc (Zn)	6010B	32	1	17	1	14	1	13	1		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

13824 Bentley Place, Cerritos, CA 90703 Tel: 800-214-0845, Fax: 562-926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 7199 (Hexavalent Chromium) ---

Client Name:	Astech Environmental	Date Sampled:	08/14/12
Project Manager:	Andy Schmitt	Date Analyzed:	08/16/12
Project Name:	Former Foss Plating	Date Reported:	08/17/12
Sample Matrix:	Soil	Unit Reported:	mg/kg or ppm

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
120814C-1	MW2-10	1	ND	0.01
120814C-2	MW2-15	1	ND	0.01
120814C-3	MW2-20	1	ND	0.01
120814C-4	MW2-25	1	ND	0.01
120814C-5	MW2-30	1	ND	0.01
120814C-6	MW2-35	1	ND	0.01
120814C-7	MW2-40	1	ND	0.01
120814C-8	MW2-45	1	ND	0.01
120814C-9	MW2-50	1	ND	0.01

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

13824 Bentley Place, Cerritos CA 90703 Tel: 800-214-0845 Fax: 562-926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 7199 (Chromium VI in Soil) ---

I. Laboratory Control Sample

Date Analyzed: 08/16/12
LCS ID: Cr120814LC

ANALYTE	LCS %	ACP %CL
Chromium VI	102	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 08/16/12
QC Batch : Cr120814MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Chromium VI	98	96	2	70-130	20

III. Method Blank

Date Analyzed: 08/16/12 Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Chromium VI	0.05	ND

ND = Not detected at the indicated reporting limit.

13824 Bentley Place, Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 7199 (Chromium VI in Water) ---

I. Laboratory Control Sample

Date Analyzed: 08/16/12
LCS ID: Cr120814LC

ANALYTE	LCS %	ACP %CL
Chromium VI	102	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 08/16/12
QC Batch : Cr120814MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Chromium VI	98	96	2	70-130	20

III. Method Blank

Date Analyzed: 08/16/12 Unit: µg/L

COMPOUND	REPORTING LIMIT	RESULT
Chromium VI	5	ND

ND = Not detected at the indicated reporting limit.

13824 Bentley Place, Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHAIN OF CUSTOD

C&E LAB ID 120814C

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921 [illegible]

Company Name: Astech Environmental
Project Manager: Andy Schmitt
Project No./Name: Former Foss Plating
Tel: 949 338 4557 Fax: 9. 521 7707

Site Address: 8140 Secura Way Santa Fe Springs
Sampled By: A Schmitt

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418 1 TRPH	8260B BTEX OXY	8260B VOC	CAM METALS	8270C OC	6010B LEAD	Cr6+
MW2-10	8/13/12	920	Soil	(2) 5035, PC										
15		936												
20		950												
25		1015												
30		1030												
35		1050												
40		1106												
45		1120												
50	8/13/12	1131	Soil	(3) 5035, PC										

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Andy Sc	8/14/12			EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

April 30,2013 ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
24582 Acropolis Dr.
Mission Viejo, CA 92691

Project: Former Foss Plutrag
C&E ID: 130415F

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on April 15,2013, and analyzed as indicated in the attached chain-of-custody.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please contact me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

13824 Bentley Place, Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech	Date Sampled:	04/15/13
Project Manager:	Andy Schmitt	Date Analyzed:	04/19/13
Project Name:	Former Foss Plutray	Date Reported:	04/23/13
Sample Matrix:	Water	Unit Reported:	ug/L or ppb

C&E LAB ID	130415F-1	130415F-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	10	ND	10						
Arsenic (As)	6010B	ND	10	ND	10						
Barium (Ba)	6010B	76	10	40	10						
Beryllium (Be)	6010B	ND	2	ND	2						
Cadmium (Cd)	6010B	ND	5	ND	5						
Chromium (Cr)	6010B	118	5	18	5						
Cobalt (Co)	6010B	ND	5	ND	5						
Copper (Cu)	6010B	ND	5	ND	5						
Lead (Pb)	6010B	ND	5	ND	5						
Mercury (Hg)	7471	ND	1	ND	1						
Molybdenum (Mo)	6010B	ND	5	ND	5						
Nickel (Ni)	6010B	ND	5	ND	5						
Selenium (Se)	6010B	ND	10	ND	10						
Silver (Ag)	6010B	ND	5	ND	5						
Thallium (Tl)	6010B	ND	10	ND	10						
TDS	EPA160.0	ND	5	ND	5						
Vanadium (V)	6010B	ND	5	ND	5						
Zinc (Zn)	6010B	ND	10	ND	10						

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
TDS: Unit mg/L

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Environmental	Date Sampled:	04/15/13
Project Manager:	Andy Schmitt	Date Analyzed:	04/18/13
Project Name:	Former Foss Plutrag	Date Reported:	04/19/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	130415F-1	130415F-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	2.0	ND	2.0						
Benzene	ND	0.5	ND	0.5						
Bromodichloromethane	ND	1.0	ND	1.0						
Bromoform	ND	1.0	ND	1.0						
Bromomethane	ND	1.0	ND	1.0						
2-Butanone (MEK)	ND	2.0	ND	2.0						
Carbon Disulfide	ND	1.0	ND	1.0						
Carbon Tetrachloride	ND	0.5	ND	0.5						
Chlorobenzene	ND	0.5	ND	0.5						
Chloroethane	ND	1.0	ND	1.0						
Chloroform	51.0	1.0	36.2	1.0						
Chloromethane	ND	1.0	ND	1.0						
Cyclohexane	ND	0.5	ND	0.5						
Dibromochloromethane	ND	1.0	ND	1.0						
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0						
1,2-Dibromoethane	ND	1.0	ND	1.0						
1,2-Dichlorobenzene	ND	0.5	ND	0.5						
1,3-Dichlorobenzene	ND	0.5	ND	0.5						
1,4-Dichlorobenzene	ND	0.5	ND	0.5						
Dichlorodifluoromethane	ND	1.0	ND	1.0						
1,1-Dichloroethane	ND	0.5	ND	0.5						
1,2-Dichloroethane	ND	0.5	ND	0.5						
1,1-Dichloroethene	74.9	0.5	139.0	0.5						
cis-1,2-Dichloroethene	2.8	0.5	4.5	0.5						
trans-1,2-Dichloroethene	ND	0.5	ND	0.5						
1,2-Dichloropropane	ND	0.5	ND	0.5						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Environmental	Date Sampled:	04/15/13
Project Manager:	Andy Schmitt	Date Analyzed:	04/18/13
Project Name:	Former Foss Plutrag	Date Reported:	04/19/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	130415F-1	130415F-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.5	ND	0.5						
cis-1,3-Dichloropropene	ND	0.5	ND	0.5						
Ethylbenzene	ND	0.5	ND	0.5						
2-Hexanone	ND	0.5	ND	0.5						
Methyl Acetate	ND	0.5	ND	0.5						
Methylcyclohexane	ND	0.5	ND	0.5						
Methylene Chloride	ND	0.5	ND	0.5						
4-Methyl-2-Pentanone	ND	0.5	ND	0.5						
Styrene	ND	0.5	ND	0.5						
Isopropylbenzene	ND	0.5	ND	0.5						
4-Isopropyltoluene	ND	0.5	ND	0.5						
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5						
Tetrachloroethene	572.4	0.5	832.5	0.5						
Toluene	ND	0.5	ND	0.5						
1,2,4-Trichlorobenzene	ND	0.5	ND	0.5						
1,1,1-Trichloroethane	ND	0.5	ND	0.5						
1,1,2-Trichloroethane	ND	0.5	ND	0.5						
Trichloroethene	86.9	0.5	138.3	0.5						
Trichlorofluoromethane	2.1	0.5	164.3	0.5						
1,1,2-Trichlorotrifluoroethane	6.1	0.5	181.4	0.5						
Vinyl Chloride	ND	0.5	ND	0.5						
Total Xylenes	ND	0.5	ND	0.5						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	92	120			
1,2-Dichloroethane-d4	105	115			
Toluene-D8	119	116			
4-Bromofluorobenzene	106	106			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- 8015M (Hydrocarbon Characterization) ---

Client Name:	Astech	Date Sampled:	04/15/13
Project Manager:	Andy Schmitt	Date Analyzed:	04/18/13
Project Name:	Former Foss Plutrag	Date Reported:	04/19/13
Sample Matrix:	Water	Unit Reported:	mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	C_4-C_{12}		C_{13}-C_{22}		C_{23}-C_{40}		%Surrogate
			Result	RL	Result	RL	Result	RL	(70-130)
130415F-1	FMW-1	1	ND	0.1	ND	0.5	ND	1	89
130415F-2	FMW-2	1	ND	0.1	ND	0.5	ND	1	92

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

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CHEMICAL& ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

Client Name: Astech
Project Manager: Andy Schmitt
Project Name: Former Foss Plutray

Sample Matrix: Water
Date Sampled: 04/15/13
Date Reported: 04/23/13

Constituents	Method	Units	Reporting Limit	Date Analyzed	RESULT			
					C&E ID	C&E ID	C&E ID	C&E ID
					130415F-1	130415F-2		
					Sample ID	Sample ID	Sample ID	Sample ID
					FMW-1	FMW-2		
Cyanide(Total)	EPA 335.2	mg/L	0.02	04/17/13	ND	ND		
PH	EPA 150.1	unit	1-14	04/15/13	6.8	7.06		
Cr +6	EPA 7196	ug/L	50.0	04/15/13	ND	150		

ND = Not detected at the indicated detection limit.

Larry Zhang, Ph.D., Laboratory Director
ELAP Certificate No.: 2268

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- 8015M (Diesel) ---

I. Laboratory Control Sample

Date Analyzed: 04/18/13
LCS ID: TPH130418LC

ANALYTE	LCS %	ACP %CL
Diesel	120	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 04/18/13
QC Batch : TPH130418MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Diesel	117	121	3	70-130	20

III. Method Blank

Date Analyzed: 04/18/13 Unit: mg/L

COMPOUND	REPORTING LIMIT	RESULT
Diesel	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
BFB	100

ND = Not detected at the indicated reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Metals in Water) ---

I. Laboratory Control Sample

Date Analyzed: 04/19/13
LCS ID: MET130419LCW

ANALYTE	LCS %	ACP %CL
Arsenic	93	70-130
Selenium	93	70-130
Cadmium	95	70-130
Lead	94	70-130
Barium	96	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 04/19/13
QC Batch #: MET130419MS

ANALYTE	MS %	MSD %	RPD	ACP %CL	ACP RPD
Arsenic	103	101	2	70-130	20
Selenium	104	102	2	70-130	20
Cadmium	107	100	7	70-130	20
Lead	106	102	4	70-130	20
Barium	109	102	7	70-130	20

III. Method Blank

Date Analyzed: 04/19/13

Unit: µg/L

COMPOUND	REPORTING LIMIT	RESULT
Antimony (Sb)	10	ND
Arsenic (As)	10	ND
Barium (Ba)	10	ND
Berryllium (Be)	2	ND
Cadmium (Cd)	5	ND
Chromium (Cr)	5	ND
Cobalt (Co)	5	ND
Copper (Cu)	5	ND
Lead (Pb)	5	ND

COMPOUND	REPORTING LIMIT	RESULT
Mercury (Hg)	1	ND
Molybdenum (Mo)	5	ND
Nickel (Ni)	5	ND
Selenium (Se)	10	ND
Silver (Ag)	5	ND
Thallium (Tl)	10	ND
Vanadium (V)	5	ND
Zinc (Zn)	10	ND

ND = Not detected at the indicated reporting limit.

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CHAIN OF CUSTODY RECORD

C&E LAB ID: 130415F

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
13824 Bentley Place, Cerritos CA 90703 Tel: (562) 926-8091 Fax: (562) 926-5940

Company Name: Astech Environmental
Project Manager: Andy Schmitt
Project No./Name: Former Foss Plating
Tel: 949 3384552 Fax: 9 521-7707

Site Address: 8140 Secura Way, Santa Fe Springs, CA 90670
Sampled By: A. Schmitt

Page 1 of 1

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M ~~TPH-G~~ Full	8015M TPH-D	8021B BTEX MTBE	~~[illegible]~~ ~~TRPH~~ pH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD	cyanide	crlt
FMW-1	4/15/13	1420	water	(5) 1L 40ML	/			/		/	/			/	/
FMW-2	4/15/13	1515	Water	(5) 1L 40ML	/			/		/	/			/	/

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Andy Schmitt	4/15/13 515	[signature]	4/15/13	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

September 27, 2013 ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
24582 Acropolis Dr.
Mission Viejo, CA 92691

Project: Former Foss Plating
C&E ID: 130916A

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on September 16,2013, and analyzed as indicated in the attached chain-of-custody.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please contact me at (562) 926-8091 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

13824 Bentley Place, Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (7) ---

Client Name:	Astech Environmental	Date Sampled:	09/16/13
Project Manager:	Andy Schmitt	Date Analyzed:	09/17/13
Project Name:	Former Foss Plating	Date Reported:	09/26/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	130916A-1	130916A-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	10	ND	10						
Arsenic (As)	6010B	ND	10	ND	10						
Barium (Ba)	6010B	48	10	11	10						
Beryllium (Be)	6010B	ND	2	ND	2						
Cadmium (Cd)	6010B	76	5	ND	5						
Chromium (Cr)	6010B	56	5	4948	5						
Cobalt (Co)	6010B	ND	5	ND	5						
Copper (Cu)	6010B	7	5	6	5						
Lead (Pb)	6010B	ND	5	ND	5						
Mercury (Hg)	7470A	ND	1	ND	1						
Molybdenum (Mo)	6010B	ND	5	5	5						
Nickel (Ni)	6010B	6	5	8	5						
Selenium (Se)	6010B	ND	10	ND	10						
Silver (Ag)	6010B	ND	5	ND	5						
Thallium (Tl)	6010B	ND	10	ND	10						
Vanadium (V)	6010B	ND	5	ND	5						
Zinc (Zn)	6010B	32	10	62	10						

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 7199 (Hexavalent Chromium) ---

Client Name:	Astech Environmental	Date Sampled:	09/16/13
Project Manager:	Andy Schmitt	Date Analyzed:	09/16/13
Project Name:	Former Foss Plating	Date Reported:	09/26/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
130916A-1	FMW-1	1	50	1.0
130916A-2	FMW-2	100	4300	100.0

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- 8015M (Hydrocarbon Characterization) ---

Client Name:	Astech Environmental	Date Sampled:	09/16/13
Project Manager:	Andy Schmitt	Date Analyzed:	09/16/13
Project Name:	Former Foss Plating	Date Reported:	09/26/13
Sample Matrix:	Water	Unit Reported:	mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	C_4-C_{12}		C_{13}-C_{22}		C_{23}-C_{40}		%Surrogate
			Result	RL	Result	RL	Result	RL	(70-130)
130916A-1	FMW-1	1	ND	0.1	ND	0.5	ND	1	126
130916A-2	FMW-2	1	ND	0.1	ND	0.5	ND	1	124

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Enviromental	Date Sampled:	09/16/13
Project Manager:	Andy Schmitt	Date Analyzed:	09/17/13
Project Name:	Former Foss Plating	Date Reported:	09/18/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	130916A-1	130916A-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	2.0	ND	2.0						
Benzene	ND	0.5	ND	0.5						
Bromodichloromethane	ND	1.0	ND	1.0						
Bromoform	ND	1.0	ND	1.0						
Bromomethane	ND	1.0	ND	1.0						
2-Butanone (MEK)	ND	2.0	ND	2.0						
Carbon Disulfide	ND	1.0	ND	1.0						
Carbon Tetrachloride	ND	0.5	ND	0.5						
Chlorobenzene	ND	0.5	ND	0.5						
Chloroethane	ND	1.0	ND	1.0						
Chloroform	47.7	1.0	44.0	1.0						
Chloromethane	ND	1.0	ND	1.0						
Cyclohexane	ND	0.5	ND	0.5						
Dibromochloromethane	ND	1.0	ND	1.0						
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0						
1,2-Dibromoethane	ND	1.0	ND	1.0						
1,2-Dichlorobenzene	ND	0.5	ND	0.5						
1,3-Dichlorobenzene	ND	0.5	ND	0.5						
1,4-Dichlorobenzene	ND	0.5	ND	0.5						
Dichlorodifluoromethane	ND	1.0	ND	1.0						
1,1-Dichloroethane	ND	0.5	ND	0.5						
1,2-Dichloroethane	7.5	0.5	4.7	0.5						
1,1-Dichloroethene	165.2	0.5	146.3	0.5						
cis-1,2-Dichloroethene	13.1	0.5	8.8	0.5						
trans-1,2-Dichloroethene	ND	0.5	ND	0.5						
1,2-Dichloropropane	ND	0.5	ND	0.5						

To be continued on page 2

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Enviromental	Date Sampled:	09/16/13
Project Manager:	Andy Schmitt	Date Analyzed:	09/17/13
Project Name:	Former Foss Plating	Date Reported:	09/18/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	130916A-1	130916A-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.5	ND	0.5						
cis-1,3-Dichloropropene	ND	0.5	ND	0.5						
Ethylbenzene	ND	0.5	ND	0.5						
2-Hexanone	ND	0.5	ND	0.5						
Methyl Acetate	ND	0.5	ND	0.5						
Methylcyclohexane	ND	0.5	ND	0.5						
Methylene Chloride	ND	0.5	ND	0.5						
4-Methyl-2-Pentanone	ND	0.5	ND	0.5						
Styrene	ND	0.5	ND	0.5						
Isopropylbenzene	ND	0.5	ND	0.5						
4-Isopropyltoluene	ND	0.5	ND	0.5						
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5						
Tetrachloroethene	638.9	0.5	506.5	0.5						
Toluene	ND	0.5	ND	0.5						
1,2,4-Trichlorobenzene	ND	0.5	ND	0.5						
1,1,1-Trichloroethane	ND	0.5	ND	0.5						
1,1,2-Trichloroethane	ND	0.5	ND	0.5						
Trichloroethene	132.8	0.5	110.0	0.5						
Trichlorofluoromethane	1.5	0.5	17.6	0.5						
1,1,2-Trichlorotrifluoroethane	2.2	0.5	34.3	0.5						
Vinyl Chloride	ND	0.5	ND	0.5						
Total Xylenes	ND	0.5	ND	0.5						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	104	103			
1,2-Dichloroethane-d4	110	109			
Toluene-D8	96	98			
4-Bromofluorobenzene	101	98			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- SM 4500-CN E (Cyanide) ---

Client Name:	Astech Environmental	Date Sampled:	09/16/13
Project Manager:	Andy Schmitt	Date Analyzed:	09/20/13
Project Name:	Former Foss Plating	Date Reported:	09/26/13
Sample Matrix:	Water	Unit Reported:	mg/L

C&E LAB ID	SAMPLE ID	DF	RESULT	RL
130916A-1	FMW-1	1	ND	0.020
130916A-2	FMW-2	1	ND	0.020

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA150.1 (PH) ---

Client Name:	Astech Environmental	Date Sampled:	09/16/13
Project Manager:	Andy Schmitt	Date Analyzed:	09/16/13
Project Name:	Former Foss Plating	Date Reported:	09/20/13
Sample Matrix:	Water	Unit Reported:	1 - 14

C&E LAB ID	SAMPLE ID	RESULT
130916A-1	FMW-1	6.78
130916A-2	FMW-2	6.82

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 7199 (Chromium VI) ---

I. Laboratory Control Sample

Date Analyzed: 09/16/13
LCS ID: Cr130916LC

ANALYTE	LCS %	ACP %CL
Chromium VI	103	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/16/13
QC Batch : Cr130916MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Chromium VI	103	104	1	70-130	20

III. Method Blank

Date Analyzed: 09/16/13 Unit: ug/L

COMPOUND	REPORTING LIMIT	RESULT
Chromium VI	1.0	ND

ND = Not detected at the indicated reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- 8015M (Diesel) ---

I. Laboratory Control Sample

Date Analyzed: 09/16/13
LCS ID: TPH130916LC

ANALYTE	LCS %	ACP %CL
Diesel	84	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/16/13
QC Batch : TPH130916MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Diesel	118	111	6	70-130	20

III. Method Blank

Date Analyzed: 09/16/13 Unit: mg/L

COMPOUND	REPORTING LIMIT	RESULT
Diesel	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
BFB	129

ND = Not detected at the indicated reporting limit.

13824 Bentley Place, Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Metals in Water) ---

I. Laboratory Control Sample

Date Analyzed: 09/17/13
LCS ID: MET130917LCW

ANALYTE	LCS %	ACP %CL
Arsenic	112	70-130
Selenium	110	70-130
Cadmium	112	70-130
Lead	114	70-130
Barium	114	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/17/13
QC Batch #: MET130917MS

ANALYTE	MS %	MSD %	RPD	ACP %CL	ACP RPD
Arsenic	110	107	3	70-130	20
Selenium	103	102	1	70-130	20
Cadmium	119	105	13	70-130	20
Lead	112	108	4	70-130	20
Barium	112	107	5	70-130	20

III. Method Blank

Date Analyzed: 09/17/13

Unit: µg/L

COMPOUND	REPORTING LIMIT	RESULT
Antimony (Sb)	10	ND
Arsenic (As)	10	ND
Barium (Ba)	10	ND
Berryllium (Be)	2	ND
Cadmium (Cd)	5	ND
Chromium (Cr)	5	ND
Cobalt (Co)	5	ND
Copper (Cu)	5	ND
Lead (Pb)	5	ND

COMPOUND	REPORTING LIMIT	RESULT
Molybdenum (Mo)	5	ND
Nickel (Ni)	5	ND
Selenium (Se)	10	ND
Silver (Ag)	5	ND
Thallium (Tl)	10	ND
Vanadium (V)	5	ND
Zinc (Zn)	10	ND

ND = Not detected at the indicated reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC) ---

I. Laboratory Control Sample

Date Analyzed: 09/17/13
LCS ID: VOC130917LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	110	70-130
Benzene	95	70-130
Trichloroethene	90	70-130
Toluene	90	70-130
Chlorobenzene	95	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/17/13
QC Batch: VOC130917MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	115	120	4	70-130	20
Benzene	95	95	0	70-130	20
Trichloroethene	90	95	5	70-130	20
Toluene	90	95	5	70-130	20
Chlorobenzene	95	95	0	70-130	20

III. Method Blank

Date Analyzed: 09/17/13

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	98
1,2-Dichloroethane-d4	107
Toluene-D8	97
4-Bromofluorobenzene	103

ND = Not detected at the indicated reporting limit.

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CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

13824 Bentley Place, Cerritos CA 90703 Tel: (562) 926-8091 Fax: (562) 926-5940

C&E ID: 130916A

Company Name: Astech Environmental
Project Manager: Andy Schmitt
Project No./Name: Former Foss Plating
Tel: 949 338 4557 Fax: 9 521 7707

Site Address: 8140 Secura Way, Santa Fe Springs CA
Sampled By: A. Schmitt

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
Normal / Same Day / 24hr / 4

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M ~~TPH-G~~ HC Range	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B ~~LEAD~~ CN	PH	C
FMW-1	9/16/13	0935	water	(1)L (3) VOA	✓					✓	✓		✓	✓	✓
FMW-2	9/16/13	1040	water	(1)L (3) VOA	✓					✓	✓		✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time	EDF Required: (circle) Yes / No
[signature]	9/16/13 1120	[signature]	9/16/13	EDF Global ID No.: T
Relinquished By	Date/Time	Received By	Date/Time	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

December 31, 2013 ELAP Certificate No: 2268

Mr. Randy Foss
ASTECH Environmental
24582 Acropolis Dr.
Mission Viejo, CA 92691

Project: Former Foss Plating
C&E ID: 131213K

Dear Mr. Foss,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on December 13, 2013, and analyzed as indicated in the attached chain-of-custody.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please contact me at (562) 926-8091 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

13824 Bentley Place, Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech	Date Sampled:	12/13/13
Project Manager:	Randy Foss	Date Analyzed:	12/20/13
Project Name:	Former Foss Plating	Date Reported:	12/27/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	131213K-1	131213K-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	10	326	10						
Arsenic (As)	6010B	ND	10	ND	10						
Barium (Ba)	6010B	53	10	63	10						
Beryllium (Be)	6010B	ND	2	ND	2						
Cadmium (Cd)	6010B	ND	5	ND	5						
Chromium (Cr)	6010B	21	5	15447	5						
Cobalt (Co)	6010B	ND	5	ND	5						
Copper (Cu)	6010B	ND	5	ND	5						
Lead (Pb)	6010B	ND	5	ND	5						
Mercury (Hg)	7470A	ND	1	ND	1						
Molybdenum (Mo)	6010B	ND	5	ND	5						
Nickel (Ni)	6010B	ND	5	12	5						
Selenium (Se)	6010B	52	10	29	10						
Silver (Ag)	6010B	ND	5	ND	5						
Thallium (Tl)	6010B	ND	10	ND	10						
Vanadium (V)	6010B	ND	5	ND	5						
Zinc (Zn)	6010B	ND	10	ND	10						

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- 8015M (Hydrocarbon Characterization) ---

Client Name:	Astech Environmental Services	Date Sampled:	12/13/13
Project Manager:	Randy Foss	Date Analyzed:	12/18/13
Project Name:	Former Foss Plating	Date Reported:	12/19/13
Sample Matrix:	Water	Unit Reported:	mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	C_4-C_{12}		C_{13}-C_{22}		C_{23}-C_{40}		%Surrogate
			Result	RL	Result	RL	Result	RL	(70-130)
131213K-1	FMW-1	1	ND	0.1	ND	0.5	ND	1	106
131213K-2	FMW-2	1	ND	0.1	ND	0.5	ND	1	95

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Environmental Services	Date Sampled:	12/13/13
Project Manager:	Randy Foss	Date Analyzed:	12/16/13
Project Name:	Former Foss Plating	Date Reported:	12/18/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	131213K-1	131213K-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	2.0	ND	2.0						
Benzene	ND	0.5	ND	0.5						
Bromodichloromethane	ND	1.0	ND	1.0						
Bromoform	ND	1.0	ND	1.0						
Bromomethane	ND	1.0	ND	1.0						
2-Butanone (MEK)	ND	2.0	ND	2.0						
Carbon Disulfide	ND	1.0	ND	1.0						
Carbon Tetrachloride	ND	0.5	ND	0.5						
Chlorobenzene	ND	0.5	ND	0.5						
Chloroethane	ND	1.0	ND	1.0						
Chloroform	29.0	1.0	35.5	1.0						
Chloromethane	ND	1.0	ND	1.0						
Cyclohexane	ND	0.5	ND	0.5						
Dibromochloromethane	ND	1.0	ND	1.0						
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0						
1,2-Dibromoethane	ND	1.0	ND	1.0						
1,2-Dichlorobenzene	ND	0.5	ND	0.5						
1,3-Dichlorobenzene	ND	0.5	ND	0.5						
1,4-Dichlorobenzene	ND	0.5	ND	0.5						
Dichlorodifluoromethane	ND	1.0	ND	1.0						
1,1-Dichloroethane	ND	0.5	ND	0.5						
1,2-Dichloroethane	3.4	0.5	5.6	0.5						
1,1-Dichloroethene	264.3	0.5	180.2	0.5						
cis-1,2-Dichloroethene	9.5	0.5	4.1	0.5						
trans-1,2-Dichloroethene	ND	0.5	ND	0.5						
1,2-Dichloropropane	ND	0.5	ND	0.5						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech Environmental Services	Date Sampled:	12/13/13
Project Manager:	Randy Foss	Date Analyzed:	12/16/13
Project Name:	Former Foss Plating	Date Reported:	12/18/13
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	131213K-1	131213K-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.5	ND	0.5						
cis-1,3-Dichloropropene	ND	0.5	ND	0.5						
Ethylbenzene	ND	0.5	ND	0.5						
2-Hexanone	ND	0.5	ND	0.5						
Methyl Acetate	ND	0.5	ND	0.5						
Methylcyclohexane	ND	0.5	ND	0.5						
Methylene Chloride	ND	0.5	ND	0.5						
4-Methyl-2-Pentanone	ND	0.5	ND	0.5						
Styrene	ND	0.5	ND	0.5						
Isopropylbenzene	ND	0.5	ND	0.5						
4-Isopropyltoluene	ND	0.5	ND	0.5						
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5						
Tetrachloroethene	716.3	0.5	525.0	0.5						
Toluene	ND	0.5	ND	0.5						
1,2,4-Trichlorobenzene	ND	0.5	ND	0.5						
1,1,1-Trichloroethane	ND	0.5	ND	0.5						
1,1,2-Trichloroethane	ND	0.5	ND	0.5						
Trichloroethene	129.2	0.5	109.7	0.5						
Trichlorofluoromethane	44.7	0.5	27.8	0.5						
1,1,2-Trichlorotrifluoroethane	9.5	0.5	62.6	0.5						
Vinyl Chloride	ND	0.5	ND	0.5						
Total Xylenes	ND	0.5	ND	0.5						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	103	115			
1,2-Dichloroethane-d4	94	114			
Toluene-D8	108	106			
4-Bromofluorobenzene	97	99			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

Client Name: Astech
Project Manager: Randy Foss
Project Name: Former Foss Plating

Sample Matrix: Water
Date Sampled: 12/13/13
Date Reported: 12/27/13

Constituents	Method	Units	Reporting Limit	Date Analyzed	RESULT	
					C&E ID	C&E ID
					131213K-1	131213K-2
					Sample ID	Sample ID
					FMW-1	FMW-2
pH	EPA 150.1	Units	1-14	12/13/13	6.82	6.89
Syanide, Total	SM 4500-CN E	mg/L	0.020	12/20/13	ND	ND
Cr +6	EPA 7196	ug/L	500	12/13/13	ND	13095

Larry Zhang, Ph.D., Laboratory Director
ELAP Certificate No.: 2268

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- 8015M (Diesel) ---

I. Laboratory Control Sample

Date Analyzed: 12/18/13
LCS ID: TPH131218LC

ANALYTE	LCS %	ACP %CL
Diesel	78	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 12/18/13
QC Batch : TPH131218MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Diesel	70	71	1	70-130	20

III. Method Blank

Date Analyzed: 12/18/13 Unit: mg/L

COMPOUND	REPORTING LIMIT	RESULT
Diesel	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
BFB	77

ND = Not detected at the indicated reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Metals in Water) ---

I. Laboratory Control Sample

Date Analyzed: 12/20/13
LCS ID: MET131220LCW

ANALYTE	LCS %	ACP %CL
Arsenic	111	70-130
Zinc	120	70-130
Lead	112	70-130
Cadmium	112	70-130
Copper	106	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 12/20/13
QC Batch #: MET131220MS

ANALYTE	MS %	MSD %	RPD	ACP %CL	ACP RPD
Arsenic	104	103	1	70-130	20
Zinc	111	112	1	70-130	20
Lead	106	106	0	70-130	20
Cadmium	103	104	1	70-130	20
Copper	100	101	1	70-130	20

III. Method Blank

Date Analyzed: 12/20/13

Unit: µg/L

COMPOUND	REPORTING LIMIT	RESULT
Arsenic (As)	10	ND
Cadmium (Cd)	10	ND
Copper (Cu)	10	ND
Lead (Pb)	10	ND

COMPOUND	REPORTING LIMIT	RESULT
Nickel (Ni)	1	ND
Silver (Ag)	10	ND
Chromium(Cr)	10	ND
Zinc (Zn)	10	ND

ND = Not detected at the indicated reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC) ---

I. Laboratory Control Sample

Date Analyzed: 12/16/13
LCS ID: VOC131216LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	115	70-130
Benzene	105	70-130
Trichloroethene	105	70-130
Toluene	100	70-130
Chlorobenzene	105	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 12/16/13
QC Batch: VOC131216MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	125	125	0	70-130	20
Benzene	110	105	5	70-130	20
Trichloroethene	105	105	0	70-130	20
Toluene	110	105	5	70-130	20
Chlorobenzene	105	105	0	70-130	20

III. Method Blank

Date Analyzed: 12/16/13

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	98
1,2-Dichloroethane-d4	90
Toluene-D8	102
4-Bromofluorobenzene	98

ND = Not detected at the indicated reporting limit.

13824 Bentley Place Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
13824 Bentley Place, Cerritos, CA 90703 Tel: (562) 926-8091 Fax: (562) 926-5940

CHEMTAT 131213K

Company Name: Astech Environmental Services
Project Manager: RANDY FOSS
Project No./Name: Former Foss Plating
Tel: 949 338 4557 Fax: 9 521 7707

Site Address: 8140 Secura Way
Santa Fe Springs
CA
Sampled By: A. Schmitt

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	~~8270C~~ ~~2NOC~~ PH	6010B ~~LEAD~~ CN	Cr6+	8015M H-C range
FMW-1	12/13/13	1330	AQ	(4)VOA(2) LA.											
FMW-2	12/13/13	1541	AQ	(4)VOA(2) LA.											

Relinquished By:	Date/Time	By:	Date/Time:	EDF Required: (circle) Yes No
Andy Sch	12/13/13 1700	[signature]	12/13/13 1700	EDF Global ID No.: T
Relinquished By:	Date/Time:	By:	Date/Time	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

April 10, 2014 ELAP Certificate No: 2268

Mr. Andy Schmitt
ASTECH Environmental
24582 Acropolis Dr.
Mission Viejo, CA 92691

Project: Former Foss Planting
C&E ID: 140403E

Dear Mr. Schmitt,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on April 03, 2014, and analyzed as indicated in the attached chain-of-custody.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please contact me at (562) 926-8091 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

13824 Bentley Place, Cerritos, CA 90703 Tel: 562 926-8091, Fax: 562 926-5940

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- CA Title 22 Metals (17) ---

Client Name:	Astech	Date Sampled:	04/02/14
Project Manager:	Andy Schmitt	Date Analyzed:	04/04/14
Project Name:	Former Foss Planting	Date Reported:	04/07/14
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	140402A-1	140402A-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Method	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Antimony (Sb)	6010B	ND	10	ND	10						
Arsenic (As)	6010B	ND	10	ND	10						
Barium (Ba)	6010B	ND	10	ND	10						
Beryllium (Be)	6010B	ND	2	ND	2						
Cadmium (Cd)	6010B	ND	5	ND	5						
Chromium (Cr)	6010B	ND	5	ND	5						
Cobalt (Co)	6010B	ND	5	ND	5						
Copper (Cu)	6010B	8	5	6	5						
Lead (Pb)	6010B	ND	5	ND	5						
Mercury (Hg)	7470A	ND	1	ND	1						
Molybdenum (Mo)	6010B	ND	5	ND	5						
Nickel (Ni)	6010B	ND	5	ND	5						
Selenium (Se)	6010B	ND	10	ND	10						
Silver (Ag)	6010B	ND	5	ND	5						
Thallium (Tl)	6010B	ND	10	ND	10						
Vanadium (V)	6010B	ND	5	ND	5						
Zinc (Zn)	6010B	ND	10	ND	10						

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- 8015M (Hydrocarbon Characterization) ---

Client Name:	Astech	Date Sampled:	04/02/14
Project Manager:	Andy Schmitt	Date Analyzed:	04/03/14
Project Name:	Former Foss Planting	Date Reported:	04/07/14
Sample Matrix:	Water	Unit Reported:	mg/L or ppm

C&E LAB ID	SAMPLE ID	DF	C_4-C_{12}		C_{13}-C_{22}		C_{23}-C_{40}		%Surrogate
			Result	RL	Result	RL	Result	RL	(70-130)
140402A-1	FMW-1	1	ND	0.1	ND	0.5	ND	1	93
140402A-2	FMW-2	1	ND	0.1	ND	0.5	ND	1	82

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech	Date Sampled:	04/02/14
Project Manager:	Andy Schmitt	Date Analyzed:	04/02/14
Project Name:	Former Foss Planting	Date Reported:	04/04/14
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	140402A-1	140402A-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	2.0	ND	2.0						
Benzene	ND	0.5	ND	0.5						
Bromodichloromethane	ND	1.0	ND	1.0						
Bromoform	ND	1.0	ND	1.0						
Bromomethane	ND	1.0	ND	1.0						
2-Butanone (MEK)	ND	2.0	ND	2.0						
Carbon Disulfide	ND	1.0	ND	1.0						
Carbon Tetrachloride	ND	0.5	ND	0.5						
Chlorobenzene	ND	0.5	ND	0.5						
Chloroethane	ND	1.0	ND	1.0						
Chloroform	20.1	1.0	13.2	1.0						
Chloromethane	ND	1.0	ND	1.0						
Cyclohexane	ND	0.5	ND	0.5						
Dibromochloromethane	ND	1.0	ND	1.0						
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0						
1,2-Dibromoethane	ND	1.0	ND	1.0						
1,2-Dichlorobenzene	ND	0.5	ND	0.5						
1,3-Dichlorobenzene	ND	0.5	ND	0.5						
1,4-Dichlorobenzene	ND	0.5	ND	0.5						
Dichlorodifluoromethane	ND	1.0	ND	1.0						
1,1-Dichloroethane	ND	0.5	ND	0.5						
1,2-Dichloroethane	1.2	0.5	1.0	0.5						
1,1-Dichloroethene	42.0	0.5	23.4	0.5						
cis-1,2-Dichloroethene	5.6	0.5	4.0	0.5						
trans-1,2-Dichloroethene	ND	0.5	ND	0.5						
1,2-Dichloropropane	ND	0.5	ND	0.5						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	Astech	Date Sampled:	04/02/14
Project Manager:	Andy Schmitt	Date Analyzed:	04/02/14
Project Name:	Former Foss Planting	Date Reported:	04/04/14
Sample Matrix:	Water	Unit Reported:	µg/L or ppb

C&E LAB ID	140402A-1	140402A-2			
SAMPLE ID	FMW-1	FMW-2			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.5	ND	0.5						
cis-1,3-Dichloropropene	ND	0.5	ND	0.5						
Ethylbenzene	ND	0.5	ND	0.5						
2-Hexanone	ND	0.5	ND	0.5						
Methyl Acetate	ND	0.5	ND	0.5						
Methylcyclohexane	ND	0.5	ND	0.5						
Methylene Chloride	ND	0.5	ND	0.5						
4-Methyl-2-Pentanone	ND	0.5	ND	0.5						
Styrene	ND	0.5	ND	0.5						
Isopropylbenzene	ND	0.5	ND	0.5						
4-Isopropyltoluene	ND	0.5	ND	0.5						
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5						
Tetrachloroethene	295.6	0.5	148.3	0.5						
Toluene	ND	0.5	ND	0.5						
1,2,4-Trichlorobenzene	ND	0.5	ND	0.5						
1,1,1-Trichloroethane	ND	0.5	ND	0.5						
1,1,2-Trichloroethane	ND	0.5	ND	0.5						
Trichloroethene	63.1	0.5	37.9	0.5						
Trichlorofluoromethane	21.4	0.5	12.7	0.5						
1,1,2-Trichlorotrifluoroethane	10.8	0.5	5.9	0.5						
Vinyl Chloride	ND	0.5	ND	0.5						
Total Xylenes	ND	0.5	ND	0.5						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	97	97			
1,2-Dichloroethane-d4	90	89			
Toluene-D8	106	104			
4-Bromofluorobenzene	100	101			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL& ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

Client Name: Astech
Project Manager: Andy Schmitt
Project Name: Former Foss Planting

Sample Matrix: Water
Date Sampled: 04/02/14
Date Reported: 04/07/14

Constituents	Method	Units	Reporting Limit	Date Analyzed	RESULT			
					C&E ID	C&E ID	C&E ID	C&E ID
					140402A-1	140402A-2		
					Sample ID	Sample ID	Sample ID	Sample ID
					FMW-1	FMW-2		
Cyanide(Total)	SM 4500-CN E	mg/L	0.020	04/04/14	ND	ND		
PH	EPA 150.1	unit	1-14	04/02/14	6.85	6.73		
Cr +6	EPA 7196	ug/L	50.0	04/02/14	ND	ND		

ND = Not detected at the indicated detection limit.

Larry Zhang, Ph.D., Laboratory Director
ELAP Certificate No.: 2268

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- 8015M (Diesel) ---

I. Laboratory Control Sample

Date Analyzed: 04/03/14
LCS ID: TPH140403LC

ANALYTE	LCS %	ACP %CL
Diesel	105	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 04/03/14
QC Batch : TPH140403MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Diesel	113	116	3	70-130	20

III. Method Blank

Date Analyzed: 04/03/14 Unit: mg/L

COMPOUND	REPORTING LIMIT	RESULT
Diesel	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
BFB	121

ND = Not detected at the indicated reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 6010B (Metals) ---

I. Laboratory Control Sample

Date Analyzed: 04/04/14
LCS ID: MET140404CLCW

ANALYTE	LCS %	ACP %CL
Arsenic	96	70-130
Selenium	98	70-130
Cadmium	98	70-130
Lead	98	70-130
Barium	96	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 04/04/14
QC Batch #: MET140404CMS

ANALYTE	MS %	MSD %	RPD	ACP %CL	ACP RPD
Arsenic	102	101	1	70-130	20
Selenium	104	103	1	70-130	20
Cadmium	103	102	1	70-130	20
Lead	104	103	1	70-130	20
Barium	104	102	2	70-130	20

III. Method Blank

Date Analyzed: 04/04/14

Unit: µg/L

COMPOUND	REPORTING LIMIT	RESULT
Antimony (Sb)	10	ND
Arsenic (As)	10	ND
Barium (Ba)	10	ND
Berryllium (Be)	2	ND
Cadmium (Cd)	5	ND
Chromium (Cr)	5	ND
Cobalt (Co)	5	ND
Copper (Cu)	5	ND
Lead (Pb)	5	ND

COMPOUND	REPORTING LIMIT	RESULT
Molybdenum (Mo)	5	ND
Nickel (Ni)	5	ND
Selenium (Se)	10	ND
Silver (Ag)	5	ND
Thallium (Tl)	10	ND
Vanadium (V)	5	ND
Zinc (Zn)	10	ND

ND = Not detected at the indicated reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC) ---

I. Laboratory Control Sample

Date Analyzed: 04/02/14
LCS ID: VOC140402LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	75	70-130
Benzene	80	70-130
Trichloroethene	85	70-130
Toluene	90	70-130
Chlorobenzene	95	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 04/02/14
QC Batch: VOC140402MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	75	80	6	70-130	20
Benzene	80	85	6	70-130	20
Trichloroethene	85	85	0	70-130	20
Toluene	90	85	6	70-130	20
Chlorobenzene	90	90	0	70-130	20

III. Method Blank

Date Analyzed: 04/02/14

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	102
1,2-Dichloroethane-d4	92
Toluene-D8	106
4-Bromofluorobenzene	107

ND = Not detected at the indicated reporting limit.

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CHAIN OF CUSTODY RECORD

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.
13824 Bradley Place, Cerritos, CA 90703 Tel. (562) 926-8091 Fax. (562) 926-9930

C&E LAB ID: 140402A

Page 1 of 1

Company Name: Astech Environmental
Project Manager: Andy Schmitt
Project No./Name: Former Foss Plating
Tel: 949 338 4557 Fax: 949 521-7207
Site Address: 8140 Secura Way, Santa Fe Springs
Sampled By: A. Schmitt

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M ~~METALS~~ Fuel	8015M TPH-D	8021B BTEX MTBE	~~8015M~~ PH	8260B BTEX OXY	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD	Cyanide	Cr 6+
FMW-1	4/2/14	0945	AQ	(2)VOA(2)1L	/			/		/	/			/	/
FMW-2	4/2/14	1017	AQ	(1)VOA(2)1L	/			/		/	/			/	/

Relinquished By	Date/Time	Received By	Date/Time	Con
Andy Schmitt	4/2/14 1125	[illegible]	4/2/14 11:30	
Relinquished By	Date/Time	Received By	Date/Time	

N Hazardous Waste
Reports & Form R

OMB# 2050-0024 Expires 3-31-92

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME Foss Plating Company, Inc.
8140 Secura Way
Santa Fe Springs, CA 90670

EPA ID NO. CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM **IC**

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed Instructions beginning on page 7 of the 1989 Hazardous Waste Report booklet before completing this form

SEC. I Site name and location address. Complete items A through H. Check the box ☒ in items A, B, D, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 7.

A. EPA ID No. Same as label ☒ or →
B. Site/company name Same as label ☒ or →
C. Has the site name associated with this EPA ID changed since 1987? ☐ 1 Yes ☒ 2 No
D. Street name and number. If not applicable, enter industrial park, building name or other physical location description. Same as label ☒ or →
E. City, town, village, etc. Same as label ☒ or →
F. County: Los Angeles
G. State Same as label ☒
H. Zip Code Same as label ☒

SEC. II Mailing address of site. Instruction page 7.

A. Is the mailing address the same as the location address? ☒ 1 Yes (SKIP TO SEC. III) ☐ 2 No (COMPLETE SEC. II)
B. Number and street name of mailing address
C. City, town, village, etc.
D. State
E. Zip Code

SEC. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 7.

A. Please print: Last name	First name	M.I.	B. Title	C. Telephone
Foss,	Larry D.		Vice President Finance	213 945-3451 Extension NA

SEC. IV Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. Instruction page 8.

A.	B.	C.	D.
3471	NA	NA	NA

SEC. V I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. Number of form pages submitted
Form IC 2 Form GM Form WR Form PS

B. Please print: Last name	First name	M.I.	C. Title
Foss,	Larry D.		Vice President-Finance

D. Signature
E. Date of signature 06 27 91 (MO. DAY YR.)

EPA Form 8700-13A/B (5-80) (Revised 11-85) (Revised 12-87) (Revised 11-89) OVER →

VI Generator Status

A. 1989 generation (CHECK ONE BOX BELOW)
Instruction page 8

- ☐ 1 No (CONTINUE TO BOX B)
- ☒ 2 LQG
- ☐ 3 SQG
- ☐ 4 CESQG

(SKIP TO SEC. VII)

B. Reason for not generating (CHECK ALL THAT APPLY)
Page 10

- ☐ 1 Never generated
- ☐ 2 Out of business
- ☐ 3 Only excluded or delisted waste
- ☐ 4 Only non-hazardous waste
- ☐ 5 Periodic or occasional generator
- ☐ 6 Waste minimization activity
- ☐ 7 Other (SPECIFY IN COMMENTS)

Sec. VII On-Site Waste Management Status

A. Storage Instruction page 11	B. RCRA treatment, recycling, or disposal Page 11	C. RCRA-exempt treatment, recycling, or disposal Page 12
1	1	3

Sec. VIII Waste Minimization Activity during 1988 or 1989

A. Did this site begin or expand a source reduction activity during 1988 or 1989?
Instruction page 12

- ☒ 1 Yes
- ☐ 2 No

B. Did this site begin or expand a recycling activity during 1988 or 1989?
Page 13

- ☒ 1 Yes
- ☐ 2 No

C. Did this site conduct a source reduction or recycling opportunity assessment during 1988 or 1989?
Page 13

- ☒ 1 Yes
- ☐ 2 No

D. What factors have limited this site from initiating new source reduction activities during 1988 or 1989?
(CHECK ALL THAT APPLY)
Page 13

- ☐ 01 No factors have limited new source reduction activities.
- ☒ 02 Insufficient capital to install new source reduction equipment or implement new source reduction practices.
- ☒ 03 Lack of technical information on source reduction techniques applicable to the specific production processes.
- ☒ 04 Source reduction is not economically feasible: cost savings in waste management or production will not recover the capital investment.
- ☒ 05 Concern that product quality may decline as a result of source reduction.
- ☒ 06 Technical limitations of the production processes.
- ☒ 07 Permitting burdens.
- ☒ 08 Other (SPECIFY IN COMMENTS)

E. What factors have limited this site from initiating new on-site or off-site recycling activities during 1988 or 1989?
(CHECK ALL THAT APPLY)
Page 13

- ☐ 01 No factors have limited new recycling activities.
- ☒ 02 Insufficient capital to install new recycling equipment or implement new recycling practices.
- ☒ 03 Lack of technical information on recycling techniques applicable to this site's specific production processes.
- ☒ 04 Recycling not economically feasible: cost savings in waste management or production will not recover the capital investment.
- ☐ 05 Concern that product quality may decline as a result of recycling.
- ☐ 06 Requirements to manifest wastes inhibit shipments off site for recycling.
- ☐ 07 Financial liability provisions inhibit shipments off site for recycling.
- ☐ 08 Technical limitations of product processes inhibit shipments off site for recycling.
- ☒ 09 Techical limitations of production processes inhibit on-site recycling.
- ☒ 10 Permitting burdens inhibit recycling.
- ☐ 11 Lack of permitted off-site recycling facilities.
- ☐ 12 Unable to identify a market for recyclable materials.
- ☐ 13 Other (SPECIFY IN COMMENTS)

Comments: D08: We are a small business. We take 1 project at a time - putting all our efforts into making it work. A limiting factor is the time it takes to make new equipment/procedures really work.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME Foss Plating Company, Inc.

EPA ID NO. CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1989 Hazardous Waste Report booklet before completing this form

Sec. I

A. Waste description Instruction Page 15: Spent Halogenated solvent generated from degreasing operations

B. EPA hazardous waste code Page 15: F001 NA NA NA

C. State hazardous waste code Page 16: 211 NA

D. SIC code Page 16: 3471

E. Source code Page 16: A07

F. Form code Page 16: B202

G. Origin Page 16: Code 1; System type M NA

H. TRI constituent Page 17: 3

I. CAS numbers Page 17: 1. 71-55-6 2. - - 3. - - 4. - - 5. - -

Sec. II

A. Quantity generated in 1988 Instruction Page 17: 450

B. Quantity generated in 1989 Page 17: 645

C. UOM Page 18: 5

D. Density Page 18: 10.97 [X] 1 lbs/gal [ ] 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? Page 18: [ ] 1 Yes (CONTINUE TO SYSTEM 1) [X] 2 No (SKIP TO SEC. III)

SYSTEM 1: System type Page 18: M; Quantity treated, disposed or recycled in 1989 Page 18:

SYSTEM 2: System type Page 18: M; Quantity treated, disposed or recycled in 1989 Page 18:

Sec. III

A. Was this waste shipped off site? Instruction Page 19: [X] 1 Yes (CONTINUE TO BOX B) [ ] 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped Instruction Page 19	C. System type Page 19	D. Total quantity shipped in 1989 Page 19
Site 1	CAD008364432	M022	645
Site 2		M	

Sec. IV

A. Waste minimization results in 1989 Instruction Page 20: [ ] 1 Yes (CONTINUE TO BOX B) [X] 2 No (THIS FORM IS COMPLETE)

B. Activity Page 21	C. Other effects Page 21	D. Quantity recycled in 1989 due to new activities Page 21	E. Activity/Production Index Page 21	F. Source Reduction Quantity Page 22
W	[ ] 1 Yes		.	
W	[ ] 2 No			

Comments: Internal Opportunity Assessment - phase out degreaser during 1989
Reduction of app. 1/3 in 1990

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc.

EPA ID NO.: CIA|D|0|0|8|2|7|8|2|3|6|

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1989 Hazardous Waste Report booklet before completing this form

Sec. I

A. Waste description (Instruction Page 15): Rinse waters from cleaning operations characteristically Hazardous for Sodium Hydroxide; spent cleaners

B. EPA hazardous waste code (Page 15): D002 | NA | NA | NA

C. State hazardous waste code (Page 16): 122 | NA

D. SIC code (Page 16): 3471

E. Source code (Page 16): A03

F. Form code (Page 16): B109

G. Origin (Page 16): Code 1; System type M | NA

H. TRI constituent (Page 17): 3

I. CAS numbers (Page 17): 1. 1310-73-2 2. ___ 3. ___ 4. ___ 5. ___

Sec. II

A. Quantity generated in 1988 (Instruction Page 17): 71448.4

B. Quantity generated in 1989 (Page 17): 8029.98

C. UOM (Page 18): 5

D. Density (Page 18): 8.64 ☒ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? (Page 18)
☒ 1 Yes (CONTINUE TO SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

SYSTEM 1

System type (Page 18): M05

Quantity treated, disposed or recycled in 1989 (Page 18): 8029.98

SYSTEM 2

System type (Page 18): M

Quantity treated, disposed or recycled in 1989 (Page 18): NA

Sec. III

A. Was this waste shipped off site? (Instruction Page 19)
☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped (Instruction Page 19)	C. System type (Page 19)	D. Total quantity shipped in 1989 (Page 19)
Site 1		M	
Site 2		M	

Sec. IV

A. Waste minimization results in 1989 (Instruction Page 20)
☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (THIS FORM IS COMPLETE)

B. Activity (Page 21)	C. Other effects (Page 21)	D. Quantity recycled in 1989 due to new activities (Page 21)	E. Activity/Production index (Page 21)	F. Source Reduction Quantity (Page 22)
W	☐ 1 Yes		.	
W	☐ 2 No			

Comments: Neutralize, settling/clarification, dewatering (System 1)
Sec IV, B containment storage installed 1-90, opportunity assessment during 1989.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc.

EPA ID NO.: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1989 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description Instruction Page 15: Rinse waters from electroplating, characteristically hazardous for chrome (Hexavalent chrome, Hexavalent reduced to Trichrome, and Trivalent Chrome)

B. EPA hazardous waste code Page 15: D007 NA NA NA

C. State hazardous waste code Page 16: 723 132

D. SIC code Page 16: 3471

E. Source code Page 16: A22

F. Form code Page 16: B113

G. Origin Page 16: Code 1; System type M NA

H. TRI constituent Page 17: 3

I. CAS numbers Page 17: 1. 1333-82-0 2. "in TSCA" 3. 4. 5.

Sec. II

A. Quantity generated in 1988 Instruction Page 17: 160759

B. Quantity generated in 1989 Page 17: 180900

C. UOM Page 18: 5

D. Density Page 18: DK ☐ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? Page 18: ☒ 1 Yes (CONTINUE TO SYSTEM 1) ☐ 2 No (SKIP TO SEC. III)

SYSTEM 1: System type Page 18: M071; Quantity treated, disposed or recycled in 1989 Page 18: 180900

SYSTEM 2: System type Page 18: M; Quantity treated, disposed or recycled in 1989 Page 18: NA

Sec. III

A. Was this waste shipped off site? Instruction Page 19: ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped Instruction Page 19	C. System type Page 19	D. Total quantity shipped in 1989 Page 19
Site 1		M	
Site 2		M	

Sec. IV

A. Waste minimization results in 1989 Instruction Page 20: ☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 21	C. Other effects Page 21	D. Quantity recycled in 1989 due to new activities Page 21	E. Activity/Production Index Page 21	F. Source Reduction Quantity Page 22
W42 W	☐ 1 Yes			
W	☒ 2 No			

Comments: Our biggest environmental effort started in March, 1989, when we switc from Hexavalent Chrome to Tri-valent Chrome. To make the Tri-chrome wo we eased back on our "closed loop" rinsing, resulting in increased volumn of chrome in our sludge during 1989.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME Foss Plating Company Inc.

EPA ID NO. CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1989 Hazardous Waste Report booklet before completing this fo

Sec. I

A. Waste description Instruction Page 15: Spent acids; rinse waters from acid tanks characteristicall hazardous for Hydrochloric Acid

B. EPA hazardous waste code Page 15: D002 NA NA NA

C. State hazardous waste code Page 16: 791 NA

D. SIC code Page 16: 3471

E. Source code Page 16: A26

F. Form code Page 16: B104

G. Origin Page 16: Code 1; System type M NA

H. TRI constituent Page 17: 3

I. CAS numbers Page 17: 1. 7647-01-0 2. NA- - 3. NA- - 4. NA- - 5. NA- -

Sec. II

A. Quantity generated in 1988 Instruction Page 17: 625174

B. Quantity generated in 1989 Page 17: 699798

C. UOM Page 18: 5

D. Density Page 18: 8.64 ☐ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? Page 18: ☒ 1 Yes (CONTINUE TO SYSTEM 1) ☐ 2 No (SKIP TO SEC. III)

SYSTEM 1

System type Page 18: M125

Quantity treated, disposed or recycled in 1989 Page 18: 699798

SYSTEM 2

System type Page 18: M

Quantity treated, disposed or recycled in 1989 Page 18: NA

Sec. III

A. Was this waste shipped off site? Instruction Page 19: ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped Instruction Page 19	C. System type Page 19	D. Total quantity shipped in 1989 Page 19
Site 1		M	
Site 2		M	

Sec. IV

A. Waste minimization results in 1989 Instruction Page 20: ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 21	C. Other effects Page 21	D. Quantity recycled in 1989 due to new activities Page 21	E. Activity/Production Index Page 21	F. Source Reduction Quantity Page 22
W W W	☐ 1 Yes ☐ 2 No		.	

Comments: System 1: Neutralize, settling/clarification, dewatering

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc.

EPA ID NO.: CIAID010812718213 16

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM **GM**

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1989 Hazardous Waste Report booklet before completing this form

Sec. I

A. Waste description (Instruction Page 15): Rinse water from electroplating characteristically hazardous for Nickel

B. EPA hazardous waste code (Page 15): F006 | NA | NA | NA

C. State hazardous waste code (Page 16): 171 | NA

D. SIC code (Page 16): 3471

E. Source code (Page 16): A22

F. Form code (Page 16): B113

G. Origin (Page 16): Code 1; System type M | NA

H. TRI constituent (Page 17): 3

I. CAS numbers (Page 17): 1. 7440-02-0 2. NA-- 3. NA-- 4. NA-- 5. NA--

Sec. II

A. Quantity generated in 1988 (Instruction Page 17): 285794

B. Quantity generated in 1989 (Page 17): 324000

C. UOM (Page 18): 5

D. Density (Page 18): DK ☐ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? (Page 18)
☒ 1 Yes (CONTINUE TO SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

SYSTEM 1
System type (Page 18): M07
Quantity treated, disposed or recycled in 1989 (Page 18): 324000

SYSTEM 2
System type (Page 18): M
Quantity treated, disposed or recycled in 1989 (Page 18): NA

Sec. III

A. Was this waste shipped off site? (Instruction Page 19)
☐ 1 Yes (CONTINUE TO BOX B)
☑ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped (Instruction Page 19)	C. System type (Page 19)	D. Total quantity shipped in 1989 (Page 19)
Site 1		M	
Site 2		M	

Sec. IV

A. Waste minimization results in 1989 (Instruction Page 20)
☐ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (THIS FORM IS COMPLETE)

B. Activity (Page 21)	C. Other effects (Page 21)	D. Quantity recycled in 1989 due to new activities (Page 21)	E. Activity/Production Index (Page 21)	F. Source Reduction Quantity (Page 22)
89 W / W W	☐ 1 Yes ☐ 2 No		.	

Comments: Eliminated 1 semi-bright plating tank and 1 Durni plating tank, reduci nickel usage by a factor of .77. We are disappoonted that this reduction does not show in waste stream

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME Foss Plating Company, Inc.

EPA ID NO. CAD008278236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1989 Hazardous Waste Report booklet before completing this form

Sec. I

A. Waste description Instruction Page 15: Wastewater treatment sludge

B. EPA hazardous waste code Page 15: F006 NA NA NA

C. State hazardous waste code Page 16: 171 NA

D. SIC code Page 16: 3471

E. Source code Page 16: A75

F. Form code Page 16: B519

G. Origin Page 16: Code 3; System type M125

H. TRI constituent Page 17: 1

I. CAS numbers Page 17: 1. ___-__-__ 2. ___-__-__ 3. ___-__-__ 4. ___-__-__ 5. ___-__-__

Sec. II

A. Quantity generated in 1988 Instruction Page 17: 44280

B. Quantity generated in 1989 Page 17: 48810

C. UOM Page 18: 1

D. Density Page 18: NA ☐ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? Page 18: ☐ 1 Yes (CONTINUE TO SYSTEM 1) ☒ 2 No (SKIP TO SEC. III)

SYSTEM 1: System type Page 18: M; Quantity treated, disposed or recycled in 1989 Page 18:

SYSTEM 2: System type Page 18: M; Quantity treated, disposed or recycled in 1989 Page 18:

Sec. III

A. Was this waste shipped off site? Instruction Page 19: ☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped Instruction Page 19	C. System type Page 19	D. Total quantity shipped in 1989 Page 19
Site 1	AZD980735500	M014	48810
Site 2		M	

Sec. IV

A. Waste minimization results in 1989 Instruction Page 20: ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 21	C. Other effects Page 21	D. Quantity recycled in 1989 due to new activities Page 21	E. Activity/Production index Page 21	F. Source Reduction Quantity Page 22
W	☐ 1 Yes		.	
W	☐ 2 No			

Comments: Sec 1 F - Metal hydroxide sludge, no lime Sec 1 G M071, M121, M123, M101
Sec 111, C - solar

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME Foss Plating Company, Inc.

EPA ID NO. CAD008218236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1989 Hazardous Waste Report booklet before completing this form

Sec. I

A. Waste description (Instruction Page 15): Contaminated filter cartridges, characteristically hazardous for nickel

B. EPA hazardous waste code (Page 15): F006 | NA | NA | NA

C. State hazardous waste code (Page 16): 181 | NA

D. SIC code (Page 16): 3471

E. Source code (Page 16): A32

F. Form code (Page 16): B310

G. Origin (Page 16): Code 3; System type M125

H. TRI constituent (Page 17): 2

I. CAS numbers (Page 17): 1. NA-\-\ 2. NA-\-\ 3. NA-\-\ 4. NA-\-\ 5. NA-\-\

Sec. II

A. Quantity generated in 1988 (Instruction Page 17): NA

B. Quantity generated in 1989 (Page 17): 450

C. UOM (Page 18): 1

D. Density (Page 18): \.\ ☐ 1 lbs/gal ☒ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? (Page 18)
☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

SYSTEM 1
System type (Page 18): M
Quantity treated, disposed or recycled in 1989 (Page 18):

SYSTEM 2
System type (Page 18): M
Quantity treated, disposed or recycled in 1989 (Page 18):

Sec. III

A. Was this waste shipped off site? (Instruction Page 19)
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped (Instruction Page 19)	C. System type (Page 19)	D. Total quantity shipped in 1989 (Page 19)
Site 1	CAT000646117	M132	350
Site 2		M	

Sec. IV

A. Waste minimization results in 1989 (Instruction Page 20)
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (THIS FORM IS COMPLETE)

B. Activity (Page 21)	C. Other effects (Page 21)	D. Quantity recycled in 1989 due to new activities (Page 21)	E. Activity/Production Index (Page 21)	F. Source Reduction Quantity (Page 22)
01 W / W W	☐ 1 Yes ☒ 2 No	100	\.\	

Comments: Sec 1, G Soak, wash in washing machine (drains to clarifier), spun, air dry.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc.

EPA ID NO.: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM **PS**

WASTE TREATMENT, DISPOSAL, OR RECYCLING PROCESS SYSTEMS

INSTRUCTIONS: Read the detailed instructions beginning on page 30 of the 1989 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste treatment, disposal or recycling system description
Instruction Page 38

Wastewater treatment system for treating rinse waters and spent acids or caustics from nickel-chrome plating operations.

B. System type Page 38	C. Regulatory status Page 38	D. Operational status Page 37	E. Unit types Page 37
M125	03	01	01 NA

Sec. II

A. 1989 Influent quantity
Instruction Page 38

		UOM	Density
Total	3240000	5	DK
RCRA	3240000		☐ 1 lbs/gal ☐ 2 sg

B. Maximum operational capacity
Page 39

Total	650000
RCRA	650000

39 liquid effluent quantity
Page 40

		UOM	Density
Total	304560	5	7.48
RCRA	NA		☒ 1 lbs/gal ☐ 2 sg

D. 1989 solid/sludge residual quantity
Page 41

		UOM	Density
Total	48810	1	NA
RCRA	48810		☐ 1 lbs/gal 2 ☐ sg

E. Limitations on capacity Page 41	F. Commercial availability code Page 41	G. Percent capacity commercially available Page 42
1. 05 2. 09 3. NA	1	NA %

Sec. III

A. Planned change in maximum operational capacity
Instruction Page 42

☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (THIS FORM IS COMPLETE)

B. New maximum operational capacity
Page 42

		UOM
Total		
RCRA		

C. Planned year of change Page 43	D. Future commercial availability code Page 43	E. Percent future capacity commercially available Page 43
19		%

Comments: Sec 1,B.
1. M07 Chrome reduction Jan-Mar 89
2. M077 Chemical precipitation
3. M121 Neutralization
4. M123 Settling/clarification
5. M101 Sludge dewatering

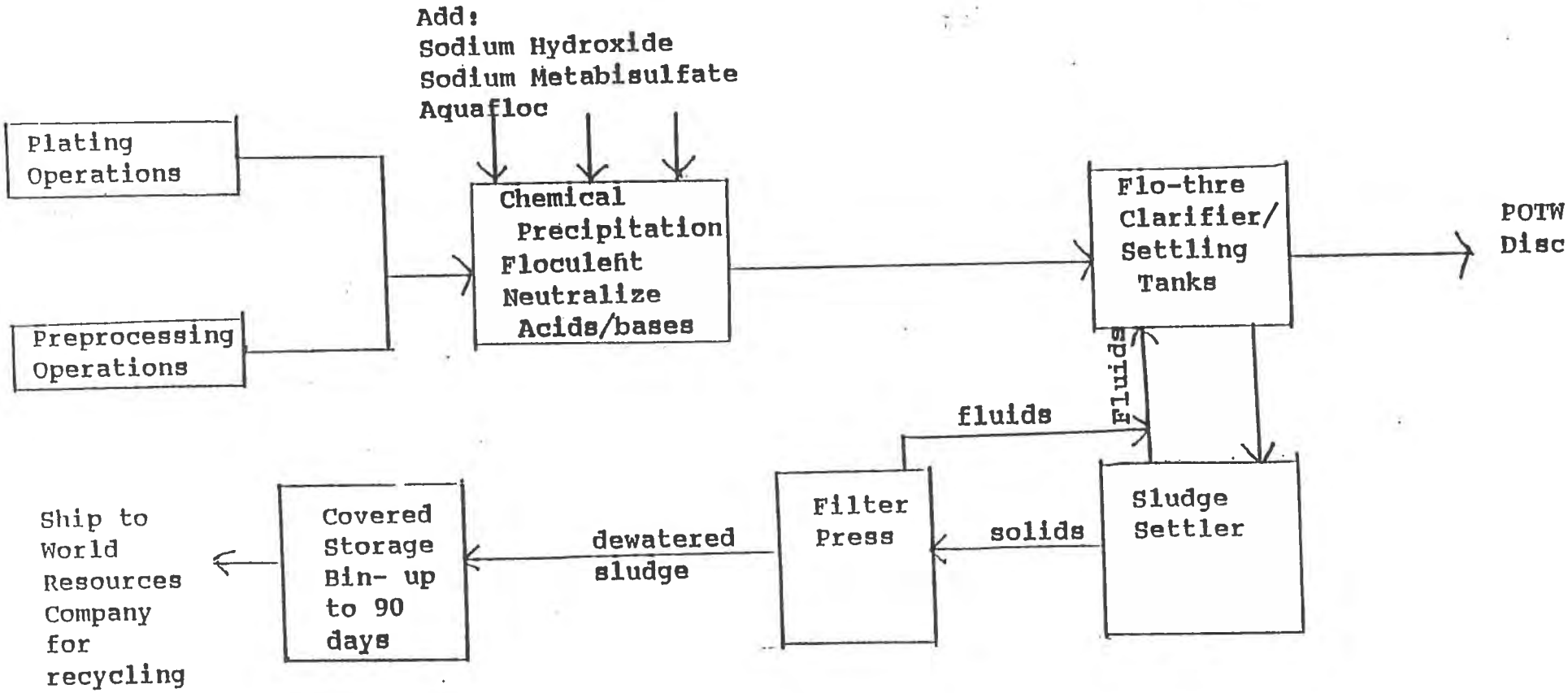

FIGURE 1
Plating Operations-
Wastewater Treatment

FOSS PLATING CO

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc.

EPA ID NO.: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM **PS**

WASTE TREATMENT, DISPOSA OR RECYCLING PROCESS SYSTEMS

INSTRUCTIONS: Read the detailed instructions beginning on page 30 of the 1989 Hazardous Waste Report booklet before completing this fo

Sec. I

A. Waste treatment, disposal or recycling system description (Instruction Page 38): Cleaning contaminated filter cartriges from electroplating characteristically hazardous for nickel

B. System type (Page 38)	C. Regulatory status (Page 38)	D. Operational status (Page 37)	E. Unit types (Page 37)
M126	03	01	01 10

Sec. II

A. 1989 influent quantity (Instruction Page 38)

		UOM	Density
Total	450	5	.
RCRA	450		☐ 1 lbs/gal ☒ 2 sg

B. Maximum operational capacity (Page 39)

Total	DK
RCRA	DK

C. 1989 liquid effluent quantity (Page 40)

		UOM	Density
Total	DK		.
RCRA	DK		☐ 1 lbs/gal ☐ 2 sg

D. 1989 solid/sludge residual quantity (Page 41)

		UOM	Density
Total	NA		.
RCRA	NA		☐ 1 lbs/gal 2 ☐

E. Limitations on capacity (Page 41): 1. 09 2. 3.

F. Commercial availability code (Page 41): 1

G. Percent capacity commercially available (Page 42): NA %

Sec. III

A. Planned change in maximum operational capacity (Instruction Page 42)

☐ 1 Yes (CONTINUE TO BOX B)

☒ 2 No (THIS FORM IS COMPLETE)

B. New maximum operational capacity (Page 42)

		UOM
Total		
RCRA		

C. Planned year of change (Page 43): 19

D. Future commercial availability code (Page 43):

E. Percent future capacity commercially available (Page 43): . %

Comments: Sec 1 B
1. Soak in a barrel, in water
2. Wash in washing machine, which drains to clarifier
3. Spun, then air dry

Sec 1 E Kenmore washing machine.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc.

EPA ID NO.: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Hazardous Waste Report

FORM 01

OFF-SITE IDENTIFICATION

INSTRUCTIONS: Read the detailed instructions on the back of this page before completing this form.

Site 1

A. EPA ID No. of off-site installation or transporter: CAD000049834

B. Name of off-site installation or transporter: Falcon Disposal

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☒ Transporter
- ☐ TSDR

D. Address of off-site installation:
Street: 3031 East T Street
City: Wilmington State: CA Zip Code: 90744-

Site 2

A. EPA ID No. of off-site installation or transporter: AZD980735500

B. Name of off-site installation or transporter: World Resources Co

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☐ Transporter
- ☒ TSDR

D. Address of off-site installation:
Street: 8113 W. Sherman Way
City: Phoenix State: AZ Zip Code: 85043-

Site 3

A. EPA ID No. of off-site installation or transporter: CAD008364432

B. Name of off-site installation or transporter: Rho Chem Corporation

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☒ Transporter
- ☒ TSDR

D. Address of off-site installation:
Street: 425 Isis Ave
City: Inglewood State: CA Zip Code: 90301-

Site 4

A. EPA ID No. of off-site installation or transporter: CAT000646117

B. Name of off-site installation or transporter: Chemical Waste Management

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☐ Transporter
- ☒ TSDR

D. Address of off-site installation:
Street: 35251 Old Skyline Road
City: Kettleman City State: CA Zip Code: 93239-

Site 5

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation:
Street:
City: State: Zip Code: -

Comments:

OMB#: 2050-0024 Expires 9/30/92

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

FOSS PLATING COMPANY INC
CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1991 Hazardous Waste Report

FORM IC

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 6 of the 1991 Hazardous Waste Report booklet before completing this form.

SEC. I Site name and location address. Complete items A through H. Check the box ☒ in items A, C, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 6

A. EPA ID No. Same as label ☒ or →	B. County: Los Angeles
C. Site/company name Same as label ☒ or →	D. Has the site name associated with this EPA ID changed since 1989? ☐ 1 Yes ☐ 2 No
E. Street name and number. If not applicable, enter industrial park, building name or other physical location description. Same as label ☒ or →	
F. City, town, village, etc. Same as label ☒ or →	G. State Same as label ☒ / H. Zip Code Same as label ☒

SEC. II Mailing address of site. Instruction page 6

A. Is the mailing address the same as the location address? ☒ 1 Yes (SKIP TO SEC. III) ☐ 2 No (GO TO BOX B)

B. Number and street name of mailing address

C. City, town, village, etc. | D. State | E. Zip Code

SEC. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 6

A. Please print: Last name, First name, M.I.	B. Title	C. Telephone
Foss, Larry D.	Vice President Finance	310 945-3451 Extension NA

SEC. IV Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. Instruction page 7

A.	B.	C.	D.
3471	NA	NA	NA

SEC. V "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for knowing violations."

A. Please print: Last name, First name, M.I.	B. Title
Foss, Larry D.	Vice President-Finance
C. Signature	D. Date of signature: 02 (MO.) 28 (DAY) 92 (YR.)

EPA Form 8700-13A/B (Revised 8-91) OVER -->

Sec. VI - Generator Status

EPA ID NO. CAD 008 278 236

A. 1991 RCRA generator status
Instruction page 7
(CHECK ONE BOX BELOW)

- [x] 1 LQG
- [ ] 2 SQG
- [ ] 3 CESQG
- [ ] 4 Non generator (CONTINUE TO BOX B)

(SKIP TO SEC. VII)

B. Reason for not generating
Page 9
(CHECK ALL THAT APPLY)

- [ ] 1 Never generated
- [ ] 2 Out of business
- [ ] 3 Only excluded or delisted waste
- [ ] 4 Only non-hazardous waste
- [ ] 5 Periodic or occasional generator
- [ ] 6 Waste minimization activity
- [ ] 7 Other (SPECIFY COMMENTS IN BOX BELOW)

Sec. VII - On-Site Waste Management Status

A. RCRA permitted or interim status storage Instruction page 10	B. RCRA permitted or interim status treatment, disposal, or recycling Page 10	C. RCRA-exempt treatment, disposal, or recycling Page 11
1	1	3

Sec. VIII - Waste Minimization Activity during 1990 or 1991

A. Did this site begin or expand a source reduction activity during 1990 or 1991?
Instruction page 11

- [x] 1 Yes
- [ ] 2 No

B. Did this site begin or expand a recycling activity during 1990 or 1991?
Page 12

- [x] 1 Yes
- [ ] 2 No

C. Did this site systematically investigate opportunities for source reduction or recycling during 1990 or 1991?
Page 12

- [x] 1 Yes
- [ ] 2 No

D. Did any of the factors listed below delay or limit this site's ability to initiate new or additional source reduction activities in 1990 or 1991?
Page 12
(CHECK YES OR NO FOR EACH ITEM)

Yes	No		
[x] 1	[ ] 2	a.	Insufficient capital to install new source reduction equipment or implement new source reduction practices
[x] 1	[ ] 2	b.	Lack of technical information on source reduction techniques applicable to the specific production processes
[x] 1	[ ] 2	c.	Source reduction is not economically feasible: cost savings in waste management or production will not recover the capital investment
[x] 1	[ ] 2	d.	Concern that product quality may decline as a result of source reduction
[x] 1	[ ] 2	e.	Technical limitations of the production processes
[x] 1	[ ] 2	f.	Permitting burdens
[ ] 1	[x] 2	g.	Source reduction previously implemented -- additional reduction does not appear to be technically feasible
[ ] 1	[x] 2	h.	Source reduction previously implemented - additional reduction does not appear to be economically feasible
[ ] 1	[x] 2	i.	Source reduction previously implemented - additional reduction does not appear to be feasible due to permitting requirements
[x] 1	[ ] 2	j.	Other (SPECIFY COMMENTS IN BOX BELOW)

E. Did any of the factors listed below delay or limit this site's ability to initiate new or additional on-site or off-site recycling activities during 1990 or 1991?
Page 12
(CHECK YES OR NO FOR EACH ITEM)

Yes	No		
[x] 1	[ ] 2	a.	Insufficient capital to install new recycling equipment or implement new recycling practice
[x] 1	[ ] 2	b.	Lack of technical information on recycling techniques applicable to this site's specific production processes
[x] 1	[ ] 2	c.	Recycling is not economically feasible: cost savings in waste management or production will not recover the capital investment
[x] 1	[ ] 2	d.	Concern that product quality may decline as a result of recycling
[ ] 1	[x] 2	e.	Requirements to manifest wastes inhibit shipments off site for recycling
[x] 1	[ ] 2	f.	Financial liability provisions inhibit shipments off site for recycling
[x] 1	[ ] 2	g.	Technical limitations of production processes inhibit shipments off site for recycling
[x] 1	[ ] 2	h.	Technical limitations of production processes inhibit on-site recycling
[x] 1	[ ] 2	i.	Permitting burdens inhibit recycling
[ ] 1	[x] 2	j.	Lack of permitted off-site recycling facilities
[x] 1	[ ] 2	k.	Unable to identify a market for recyclable materials
[ ] 1	[x] 2	l.	Recycling previously implemented -- additional recycling does not appear to be technically feasible
[ ] 1	[x] 2	m.	Recycling previously implemented -- additional recycling does not appear to be economically feasible
[ ] 1	[x] 2	n.	Recycling previously implemented - additional recycling does not appear to be feasible due to permitting requirements
[ ] 1	[ ] 2	o.	Other (SPECIFY COMMENTS IN BOX BELOW)

Comments: As a small business, we do it one project at a time, putting all our efforts into making it work. Time is a limiting factor

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

FOSS PLATING COMPANY INC
CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1991 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 13 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description (Instruction Page 15): Spent Halogenated Solvent generated from degreaser operation.

B. EPA hazardous waste code (Page 15): F001 NA NA NA NA

C. State hazardous waste code (Page 15): 211 NA

D. SIC code (Page 16): 3471

E. Origin code (Page 16): 1 System type: M Na

F. Source code (Page 17): A07

G. Point of measurement (Page 17): 1

H. Form code (Page 17): B202

I. RCRA-radioactive mixed (Page 17): 2

J. Reported TRI constituent (Page 18): 3

K. CAS numbers (Page 18): 1. 71-55-6 2. NA-NA-NA 3. NA-NA-NA 4. NA-NA-NA 5. NA-NA-NA

Sec. II

A. Quantity generated in 1990 (instruction Page 18): 356.

B. Quantity generated in 1991 (Page 18): 200.

C. UOM (Page 19): 5 Density: 10.97 ☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (Page 19)
☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

ON-SITE SYSTEM 1
On-site system type (Page 19): M
Quantity treated, disposed or recycled on site in 1991:

ON-SITE SYSTEM 2
On-site system type (Page 19): M
Quantity treated, disposed or recycled on site in 1991:

Sec. III

A. Was any of this waste shipped off site in 1991? (Instruction Page 20)
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility waste was shipped to (Page 20)	C. System type shipped to (Page 20)	D. Off-site availability code (Page 21)	E. Total quantity shipped in 1991 (Page 21)
Site 1	CAD 008 364 432	M022	1	200.
Site 2		M		

Sec. IV

A. Did new activities in 1991 result in minimization of this waste? (Instruction Page 22)
☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (THIS FORM IS COMPLETE)

B. Activity (Page 22)	C. Other effects (Page 22)	D. Quantity recycled in 1991 due to new activities (Page 23)	E. Activity/production index (Page 23)	F. 1991 Source reduction quantity (Page 24)
W W W W	☐ 1 Yes ☐ 2 No			

Comments: Reduction: continuing efforts to reduce use of Halog. solvents. Continuing better work practices to reduce waste volumn

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CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1991 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 13 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description Instruction Page 15: Rinse water from electroplating characteristically hazardous for Nickel; Residue from Nickel filter

B. EPA hazardous waste code Page 15: F006 NA NA NA NA

C. State hazardous waste code Page 15: 726

D. SIC code Page 16: 3471

E. Origin code Page 16: 1 System type: M NA

F. Source code Page 17: A22

G. Point of measurement Page 17: 1

H. Form code Page 17: B113

I. RCRA-radioactive mixed Page 17: 2

J. Reported TRI constituent Page 18: 3

K. CAS numbers Page 18: 1. 7440-02-0 2. NA 3. NA 4. NA 5. NA

Sec. II

A. Quantity generated in 1990 Instruction Page 18: 285760.

B. Quantity generated in 1991 Page 18: 147200.

C. UOM Page 19: 5 Density: DK ☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 19
☒ 1 Yes (CONTINUE TO SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE SYSTEM 1
On-site system type Page 19: M077
Quantity treated, disposed or recycled on site in 1991:

ON-SITE SYSTEM 2
On-site system type Page 19: M
Quantity treated, disposed or recycled on site in 1991:

Sec. III

A. Was any of this waste shipped off site in 1991? Instruction Page 20
☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility waste was shipped to Page 20	C. System type shipped to Page 20	D. Off-site availability code Page 21	E. Total quantity shipped in 1991 Page 21
Site 1		M		
Site 2		M		

Sec. IV

A. Did new activities in 1991 result in minimization of this waste? Instruction Page 22
☐ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 22	C. Other effects Page 22	D. Quantity recycled in 1991 due to new activities Page 23	E. Activity/production index Page 23	F. 1991 Source reduction quantity Page 24
W W W W	☐ 1 Yes ☐ 2 No			

Comments:

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FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 13 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description (Instruction Page 15): Rinse waters for electroplating, Characteristically hazardous for chrome (Trivalent, or Hexavalent chrome)

B. EPA hazardous waste code (Page 15): D007 NA NA NA NA

C. State hazardous waste code (Page 15): 723 132

D. SIC code (Page 16): 3471

E. Origin code (Page 16): 1 System type: M NA

F. Source code (Page 17): A22

G. Point of measurement (Page 17): 1

H. Form code (Page 17): B113

I. RCRA-radioactive mixed (Page 17): 2

J. Reported TRI constituent (Page 18): 2

K. CAS numbers (Page 18): 1. 1333-82-0 2. "in TSCA" 3. 4. 5.

Sec. II

A. Quantity generated in 1990 (Instruction Page 18): 1607400.

B. Quantity generated in 1991 (Page 18): 81600.

C. UOM (Page 19): 5 Density: DK ☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (Page 19)
☒ 1 Yes (CONTINUE TO SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE SYSTEM 1
On-site system type (Page 19): M071
Quantity treated, disposed or recycled on site in 1991: 81600.

ON-SITE SYSTEM 2
On-site system type (Page 19): M
Quantity treated, disposed or recycled on site in 1991:

Sec. III

A. Was any of this waste shipped off site in 1991? (Instruction Page 20)
☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility waste was shipped to (Page 20)	C. System type shipped to (Page 20)	D. Off-site availability code (Page 21)	E. Total quantity shipped in 1991 (Page 21)
Site 1		M		
Site 2		M		

Sec. IV

A. Did new activities in 1991 result in minimization of this waste? (Instruction Page 22)
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (THIS FORM IS COMPLETE)

B. Activity (Page 22)	C. Other effects (Page 22)	D. Quantity recycled in 1991 due to new activities (Page 23)	E. Activity/production index (Page 23)	F. 1991 Source reduction quantity (Page 24)
W58 W49 W68 W99	☐ 1 Yes ☒ 2 No		.8	46992.

Comments: W58: Installed Chrome bath purification system (Ion Exchange)
W49: Eliminated use of Sodium Ferrocyanide. W99 Shorter working hours

Code: 10137
Date: 04/22/89

M & T HARSHAW

MATERIAL SAFETY DATA SHEET

Product: TC CHROME ADJUSTER

SECTION I SUPPLIER INFORMATION

Common Name : TC CHROME ADJUSTER
Chemical Name : CHEMICAL MIXTURE
Formula : CHEMICAL MIXTURE
Product CAS # : IN TSCA INVENTORY
Supplier : M & T HARSHAW

Address : 1000 HARVARD AVENUE
City, St, Zip : CLEVELAND, OH 44109
Phone : 1-800-752-8464

EMERGENCY PHONE #: 1-800-424-9300

SECTION II HAZARDOUS INGREDIENT INFORMATION

INGREDIENT	% Wt.	PEL-OSHA	TLV-ACGIH
CHROMIUM (3+) SALT CAS #: IN TSCA	60-100	0.5 mg/m^3	0.5 mg/m^3
AMMONIUM CHLORIDE CAS #: 12125-02-9	1-5	10 mg/m^3, fume 20 mg/m^3 STEL	10 mg/m^3, fume 20 mg/m^3 STEL
MIXED HALIDE SALTS CAS #: IN TSCA	1-5	None established	None established

INGREDIENT HAZARD STATEMENT

May cause eye and skin burns.
Causes eye, skin and respiratory tract irritation.
Harmful if swallowed.
Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 1989-90 Standards. All OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January 19, 1989.

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1991 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 13 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description, Instruction Page 15: Rinse waters from cleaning operations characteristically hazardous for Sodium Hydroxide; also, spent cleaners

B. EPA hazardous waste code, Page 15: D002 NA NA NA NA

C. State hazardous waste code, Page 15: 122 NA

D. SIC code, Page 16: 3471

E. Origin code, Page 16: 1 System type: M NA

F. Source code, Page 17: A03

G. Point of measurement, Page 17: 1

H. Form code, Page 17: B109

I. RCRA-radioactive mixed, Page 17: 2

J. Reported TRI constituent, Page 18: 3

K. CAS numbers, Page 18: 1. 1310-73-2 2. NA-NA 3. NA-NA 4. NA-NA 5. NA-NA

Sec. II

A. Quantity generated in 1990, instruction Page 18: 714330.

B. Quantity generated in 1991, Page 18: 443663.

C. UOM, Page 19: 5 Density: 8.64 [X] 1 lbs/gal [ ] 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 19
[X] 1 Yes (CONTINUE TO SYSTEM 1)
[ ] 2 No (SKIP TO SEC. III)

ON-SITE SYSTEM 1
On-site system type, Page 19: M125
Quantity treated, disposed or recycled on site in 1991: 443663.

ON-SITE SYSTEM 2
On-site system type, Page 19: M
Quantity treated, disposed or recycled on site in 1991:

Sec. III

A. Was any of this waste shipped off site in 1991? Instruction Page 20
[ ] 1 Yes (CONTINUE TO BOX B)
[X] 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility waste was shipped to, Page 20	C. System type shipped to, Page 20	D. Off-site availability code, Page 21	E. Total quantity shipped in 1991, Page 21
Site 1		M		
Site 2		M		

Sec. IV

A. Did new activities in 1991 result in minimization of this waste? Instruction Page 22
[ ] 1 Yes (CONTINUE TO BOX B)
[ ] 2 No (THIS FORM IS COMPLETE)

B. Activity, Page 22: W19 W14 W W

C. Other effects, Page 22: [ ] 1 Yes [ ] 2 No

D. Quantity recycled in 1991 due to new activities, Page 23: NA.

E. Activity/production index, Page 23: .8

F. 1991 Source reduction quantity, Page 24: 127801.

Comments: System 1:Neutralize, settling/dewatering.
Sec IV,B: Water conservation measures.

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1991 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed Instructions beginning on page 13 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description, Instruction Page 15: Spent acids; rinse waters from acid tanks, characheristically hazardous for Hydrochloric Acid

B. EPA hazardous waste code, Page 15: D002 NA NA NA NA

C. State hazardous waste code, Page 15: 791

D. SIC code, Page 16: 3471

E. Origin code, Page 16: 1 System type: M NA

F. Source code, Page 17: A26

G. Point of measurement, Page 17: 1

H. Form code, Page 17: B104

I. RCRA-radioactive mixed, Page 17: 2

J. Reported TRI constituent, Page 18: 3

K. CAS numbers, Page 18: 1. 7647-01-0 2. NA 3. NA 4. NA 5. NA

Sec. II

A. Quantity generated in 1990, Instruction Page 18: 625170.

B. Quantity generated in 1991, Page 18: 247537.

C. UOM, Page 19: 5 Density: 8.64 [X] 1 lbs/gal [ ] 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 19
[X] 1 Yes (CONTINUE TO SYSTEM 1)
[ ] 2 No (SKIP TO SEC. III)

ON-SITE SYSTEM 1
On-site system type, Page 19: M125
Quantity treated, disposed or recycled on site in 1991: 247537.

ON-SITE SYSTEM 2
On-site system type, Page 19: M
Quantity treated, disposed or recycled on site in 1991:

Sec. III

A. Was any of this waste shipped off site in 1991? Instruction Page 20
[ ] 1 Yes (CONTINUE TO BOX B)
[X] 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility waste was shipped to, Page 20	C. System type shipped to, Page 20	D. Off-site availability code, Page 21	E. Total quantity shipped in 1991, Page 21
Site 1		M		
Site 2		M		

Sec. IV

A. Did new activities in 1991 result in minimization of this waste? Instruction Page 22
[X] 1 Yes (CONTINUE TO BOX B)
[ ] 2 No (THIS FORM IS COMPLETE)

B. Activity, Page 22	C. Other effects, Page 22	D. Quantity recycled in 1991 due to new activities, Page 23	E. Activity/production index, Page 23	F. 1991 Source reduction quantity, Page 24
W14 W19	[ ] 1 Yes [ ] 2 No	NA.	.8	252519.

Comments: System 1: Neutralization, settling, dewatering
Sec IV, water conservation efforts

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1991 Hazardous Waste Report

FORM **GM**

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed Instructions beginning on page 13 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description, Instruction Page 15: Wastewater treatment sludge

B. EPA hazardous waste code, Page 15: F006 NA NA NA NA

C. State hazardous waste code, Page 15: 171 NA

D. SIC code, Page 16	E. Origin code, Page 16	F. Source code, Page 17	G. Point of measurement, Page 17	H. Form code, Page 17	I. RCRA-radioactive mixed, Page 17
3471	5 System type M125	A75	4	B504	2

J. Reported TRI constituent, Page 18: 2

K. CAS numbers, Page 18: 1. ___ 2. ___ 3. ___ 4. ___ 5. ___

Sec. II

A. Quantity generated in 1990, Instruction Page 18: 42720.

B. Quantity generated in 1991, Page 18: 29040.

C. UOM, Page 19: 1 Density ___ ☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 19
☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

ON-SITE SYSTEM 1
On-site system type, Page 19: M
Quantity treated, disposed or recycled on site in 1991: ___

ON-SITE SYSTEM 2
On-site system type, Page 19: M
Quantity treated, disposed or recycled on site in 1991: ___

Sec. III

A. Was any of this waste shipped off site in 1991? Instruction Page 20
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility waste was shipped to, Page 20	C. System type shipped to, Page 20	D. Off-site availability code, Page 21	E. Total quantity shipped in 1991, Page 21
Site 1	AZD 980 735 500	M014	1	29040.
Site 2		M		

Sec. IV

A. Did new activities in 1991 result in minimization of this waste? Instruction Page 22
☐ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (THIS FORM IS COMPLETE)

B. Activity, Page 22	C. Other effects, Page 22	D. Quantity recycled in 1991 due to new activities, Page 23	E. Activity/production index, Page 23	F. 1991 Source reduction quantity, Page 24
W W W W	☐ 1 Yes ☐ 2 No			

Comments: Sec 1E: Neutralize, percipitation, clarify, settle, filter press

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1991 Hazardous Waste Report

FORM **GM**

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 13 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description, Instruction Page 15: Contaminated filter cartridges, characteristically hazardous for nickel

B. EPA hazardous waste code, Page 15: F006 NA NA NA NA

C. State hazardous waste code, Page 15: 181

D. SIC code, Page 16: 3471

E. Origin code, Page 16: 1 — System type: M NA

F. Source code, Page 17: A32

G. Point of measurement, Page 17: 1

H. Form code, Page 17: B310

I. RCRA-radioactive mixed, Page 17: 2

J. Reported TRI constituent, Page 18: 2

K. CAS numbers, Page 18: 1. ___-__-__ 2. ___-__-__ 3. ___-__-__ 4. ___-__-__ 5. ___-__-__

Sec. II

A. Quantity generated in 1990, Instruction Page 18: 875.

B. Quantity generated in 1991, Page 18: 750.

C. UOM, Page 19: 1 — Density: ___.___ ☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 19
☒ 1 Yes (CONTINUE TO SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE SYSTEM 1
On-site system type, Page 19: M032
Quantity treated, disposed or recycled on site in 1991: ____.

ON-SITE SYSTEM 2
On-site system type, Page 19: M
Quantity treated, disposed or recycled on site in 1991: ____.

Sec. III

A. Was any of this waste shipped off site in 1991? Instruction Page 20
☐ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility waste was shipped to, Page 20	C. System type shipped to, Page 20	D. Off-site availability code, Page 21	E. Total quantity shipped in 1991, Page 21
Site 1		M		____.
Site 2		M		____.

Sec. IV

A. Did new activities in 1991 result in minimization of this waste? Instruction Page 22
☐ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (THIS FORM IS COMPLETE)

B. Activity, Page 22	C. Other effects, Page 22	D. Quantity recycled in 1991 due to new activities, Page 23	E. Activity/production index, Page 23	F. 1991 Source reduction quantity, Page 24
W W W W	☐ 1 Yes ☐ 2 No	____.	___.___	____.

Comments: System 1: Soak, wash in washing machine (drains to clarifier) spun, air dry. Clean enough for reuse!

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1991 Hazardous Waste Report

FORM PS

WASTE TREATMENT, DISPOSAL, OR RECYCLING PROCESS SYSTEMS

INSTRUCTIONS: Read the detailed instructions beginning on page 32 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste treatment, disposal or recycling system description
Instruction Page 38

Wastewater treatment system for treating rinse waters, spent acids or caustics from nickel and chrome plating operations

B. System type Page 38	C. Regulatory status Page 38	D. Operational status Page 39	E. Unit types Page 39
M125	03	01	01

Sec. II

A. 1991 Influent quantity
Instruction Page 40

		UOM	Density
Total	920000.	5	DK
RCRA	920000.		☐ 1 lbs/gal ☐ 2 sg

B. Maximum operational capacity
Page 41

Total	30000000.
RCRA	30000000.

C. 1991 liquid effluent quantity
Page 42

		UOM	Density
Total	917096.	5	DK
RCRA	917096.		☐ 1 lbs/gal ☐ 2 sg

D. 1991 solid/sludge residual quantity
Page 43

		UOM	Density
Total	29040.	1	DK
RCRA	29040.		☐ 1 lbs/gal 2 ☐ sg

E. Limitations on maximum operational capacity Page 44	F. Commercial capacity availability code Page 44	G. Percent capacity commercially available Page 45
1. 05 2. 09 3. NA	1	NA %

Sec. III

A. Planned change in maximum operational capacity
Instruction Page 45

☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (THIS FORM IS COMPLETE)

B. New maximum operational capacity
Page 45

		UOM
Total	.	
RCRA	.	

C. Planned year of change Page 46	D. Future commercial capacity availability code Page 46	E. Percent future capacity commercially available Page 46
19		%

Comments: Sec 1B

1. M071 Chrome reduction followed by precipitation
2. Mo77 Chemical precipitation
3. M121 Neutralization
4. M123 Settling/clarification
5. M101 Sludge Dewatering

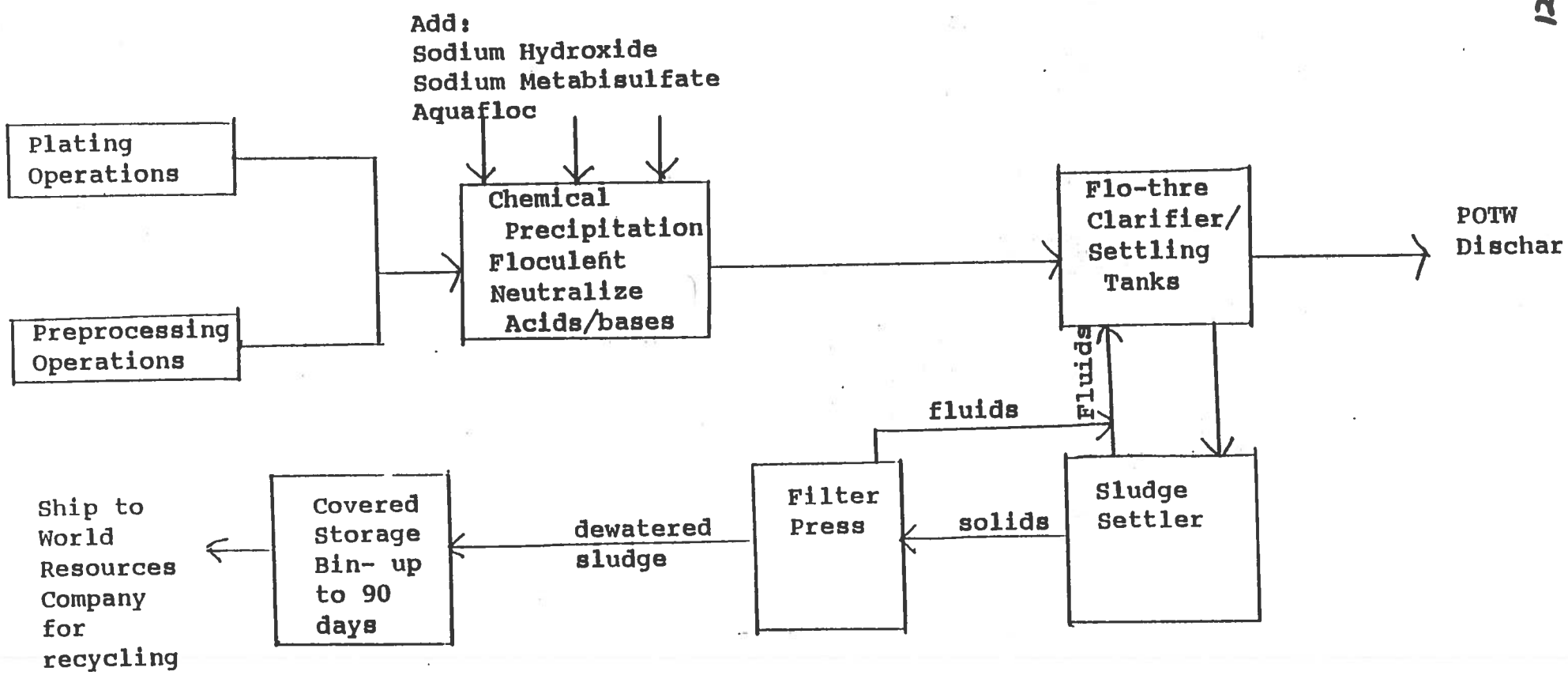

FIGURE 1
Plating Operations-
Wastewater Treatment

FOSS PLATING CO

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1991 Hazardous Waste Report

FORM PS

WASTE TREATMENT, DISPOSAL, OR RECYCLING PROCESS SYSTEMS

INSTRUCTIONS: Read the detailed instructions beginning on page 32 of the 1991 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste treatment, disposal or recycling system description
Instruction Page 38

Washing contaminated filter cartridges from electroplating, characteristically hazardous for nickel

B. System type Page 38	C. Regulatory status Page 38	D. Operational status Page 39	E. Unit types Page 39
M125	03	01	01

Sec. II

A. 1991 influent quantity
Instruction Page 40

		UOM	Density
Total	750	1	
RCRA	750		☐ 1 lbs/gal ☐ 2 sg

B. Maximum operational capacity
Page 41

Total	NA
RCRA	NA

C. 1991 liquid effluent quantity
Page 42

		UOM	Density
Total			
RCRA			☐ 1 lbs/gal ☐ 2 sg

D. 1991 solid/sludge residual quantity
Page 43

		UOM	Density
Total	750	1	
RCRA	750		☐ 1 lbs/gal 2 ☐ sg

E. Limitations on maximum operational capacity
Page 44

1. 05 2. 09 3. NA

F. Commercial capacity availability code
Page 44

1

G. Percent capacity commercially available
Page 45

%

Sec. III

A. Planned change in maximum operational capacity
Instruction Page 45

☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (THIS FORM IS COMPLETE)

B. New maximum operational capacity
Page 45

		UOM
Total		
RCRA		

C. Planned year of change
Page 46

19

D. Future commercial capacity availability code
Page 46

E. Percent future capacity commercially available
Page 46

%

Comments: Sec 1 B
1. Soak in barrel, with water
2. Wash in washingmachine, which drains to clarifier
3. Spun, then air dry

Sec 1E Kenmore washing machine

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1991 Hazardous Waste Report

FORM OI

OFF-SITE IDENTIFICATION

INSTRUCTIONS: Read the detailed instructions on the back of this page before completing this form.

Site 1

A. EPA ID No. of off-site installation or transporter: CAD 000 049 834

B. Name of off-site installation or transporter: Falcon Disposal

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☒ Transporter
- ☐ TSDR

D. Address of off-site installation
Street: 3031 East I Street
City: Wilmington State: CA Zip Code: 90744 -

Site 2

A. EPA ID No. of off-site installation or transporter: AZD 980 735 500

B. Name of off-site installation or transporter: World Resources Co

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☒ TSDR

D. Address of off-site installation
Street: 8113 W. Sherman Way
City: Phoenix State: AZ Zip Code: 85043 -

Site 3

A. EPA ID No. of off-site installation or transporter: CAD 008 364 432

B. Name of off-site installation or transporter: Rho Chem Corporation

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☒ TSDR

D. Address of off-site installation
Street: 425 Isis Ave
City: Inglewood State: CA Zip Code: 90301 -

Site 4

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation
Street:
City: State: Zip Code: -

Site 5

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation
Street:
City: State: Zip Code: -

Comments:

INSTRUCTIONS FOR COMPLETING

FORM OI - OFF-SITE IDENTIFICATION

WHO MUST COMPLETE THIS FORM?

Sites required to file the 1991 Hazardous Waste Report must complete Form OI if:

- Form OI is required by your State AND
- The site received hazardous waste from off-site or shipped hazardous waste off site during 1991.

PURPOSE OF THIS FORM

Form OI documents the names and addresses of off-site installations and transporters.

HOW TO COMPLETE THIS FORM

Form OI is divided into five identical parts. You must complete one part for each off-site installation to which you shipped hazardous waste, each off-site installation from which you received hazardous waste, and each transporter you used during 1991. If these off-site installations and transporters total more than five, you must photocopy and complete additional copies of the form. You do not need to report the address, Box D, for transporters.

Throughout the form, enter "DK" if the information requested is not known or is not available; enter "NA" if the information requested is not applicable. Use the Comments section at the bottom of the form to clarify or continue any entry. Reference the comment by entering the site number and box letter.

ITEM-BY-ITEM INSTRUCTIONS

Complete Boxes A through D for each off-site installation to which you shipped hazardous waste and each off-site installation from which you received hazardous waste during 1991.

Complete Boxes A through C for each transporter you used during the year.

Box A: EPA ID No. of off-site installation or transporter
Enter the 12-digit EPA ID number of the off-site installation to which you shipped hazardous waste or from which you received hazardous waste. Or, enter the EPA ID number of the transporter who shipped hazardous waste to or from your site. Each EPA ID should appear only once. If the off-site installation or transporter did not have an EPA ID number during 1991, enter "NA" in Box A.

Box B: Name of off-site installation or transporter
Enter the name of the off-site installation or transporter reported in Box A.

Box C: Site Type
Check all boxes that apply to describe the handler type of the off-site installation or transporter reported in Box A.

Box D: Address of off-site installation
Enter the address of the off-site installation reported in Box A. If the EPA ID number reported in Box A refers to a transporter, enter "NA" in Box D.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM IC

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 9 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I Site name and location address. Complete A through H. Check the box ☐ in items A, C, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 10.

A. EPA ID No. Same as label ☒ or →	B. County: LOS ANGELES
C. Site/company name Same as label ☒ or →	D. Has the site name associated with this EPA ID changed since 1991? ☐ 1 Yes ☒ 2 No

E. Street name and number. If not applicable, enter industrial park, building name, or other physical location description.
Same as label ☐ or → 8140 SECURA WAY

F. City, town, village, etc. Same as label ☐ or → SANTA FE SPRINGS	G. State Same as label CA	H. Zip Code Same as label 90670-

Sec. II Mailing address of site. Instruction page 10.

A. Is the mailing address the same as the location address? ☒ 1 Yes (SKIP TO SEC. III) ☐ 2 No (GO TO BOX B)

B. Number and street name of mailing address

C. City, town, village, etc.	D. State	E. Zip Code -

Sec. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 10.

A. Please print: Last Name First name M.I. FOSS, CAROL B.	B. Title ENVIRONMENTAL MANAGER	C. Telephone 310 945-3451 Extension NA

Sec. IV "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for knowing violations."

A. Please print: Last Name First name M.I. FOSS, STANLEY W.	B. Title PRESIDENT
Signature	D. Date of signature 03 29 94 (MO. DAY YR.)

Sec.V - Generator Status

EPA ID NO. C A D 0 0 8 2 7 8 2 3 6

A. 1993 RCRA generator status Instruction page 10. (CHECK ONE BOX BELOW)	B. Reason for not generating Page 12. (CHECK ALL THAT APPLY)	
☒ 1 LQG ☐ 2 SQG ☐ 3 CESQG SKIP to SEC. VI	☐ 1 Never generated ☐ 2 Out of business ☐ 3 Only excluded or delisted waste ☐ 4 Only non-hazardous waste	☐ 5 Periodic or occasional generator ☐ 6 Waste minimization activity ☐ 7 Other (SPECIFY COMMENTS IN BOX BELOW)
☐ 4 Non generator (Continue to Box B)		

Sec.VI - On-Site Waste Management Status

A. Storage subject to RCRA permitting requirements Page 13.	B. Treatment, disposal, or recycling subject to RCRA permitting requirements Page 13.	C. RCRA-exempt treatment, disposal, or recycling Page 13.
1	1	3

Sec.VII - Waste Minimization Activity during 1992 or 1993

A. Did this site begin or expand a source reduction activity during 1992 or 1993? Page 14.	B. Did this site begin or expand a recycling activity during 1992 or 1993? Page 15.	C. Did this site systematically investigate opportunities for source reduction or recycling during 1992 or 1993? Page 15.
☒ 1 Yes ☐ 2 No	☐ 1 Yes ☒ 2 No	☒ 1 Yes ☐ 2 No

D. Did any of the factors listed below delay or limit this site's ability to initiate new or additional source reduction activities in 1992 or 1993? Page 15
(CHECK YES OR NO FOR EACH ITEM)

Yes	No		
☒ 1	☐ 2	a.	Insufficient capital to install new source reduction equipment or implement new source reduction practices
☒ 1	☐ 2	b.	Lack of technical information on source reduction techniques applicable to the specific production processes
☒ 1	☐ 2	c.	Source reduction is not economically feasible: cost savings in waste management or production will not recover the capital investment
☒ 1	☐ 2	d.	Concern that product quality may decline as a result of source reduction
☒ 1	☐ 2	e.	Technical limitations of the production processes
☒ 1	☐ 2	f.	Permitting burdens
☒ 1	☐ 2	g.	Source reduction previously implemented - additional reduction does not appear to be technically feasible
☒ 1	☐ 2	h.	Source reduction previously implemented - additional reduction does not appear to be economically feasible
☒ 1	☐ 2	i.	Source reduction previously implemented - additional reduction does not appear to be feasible due to permitting requirements
☒ 1	☐ 2	j.	Other (SPECIFY COMMENTS IN BOX BELOW)

E. Did any of the factors listed below delay or limit the site's ability to initiate new or additional on-site or off-site recycling activities during 1992 or 1993? Page 15.
(CHECK YES OR NO FOR EACH ITEM)

Yes	No		
☒ 1	☐ 2	a.	Insufficient capital to install new recycling equipment or implement new recycling practice
☒ 1	☐ 2	b.	Lack of technical information on recycling techniques applicable to this site's specific production process
☒ 1	☐ 2	c.	Recycling is not economically feasible: cost savings in waste management will not recover the capital investment
☒ 1	☐ 2	d.	Concern that product quality may decline as a result of recycling
☐ 1	☒ 2	e.	Requirements to manifest wastes inhibit shipments of off-site for recycling
☐ 1	☒ 2	f.	Financial liability provisions inhibit shipments off-site for recycling
☐ 1	☒ 2	g.	Technical limitations of production processes inhibit shipments off-site for recycling
☐ 1	☒ 2	h.	Technical limitations of production processes inhibit on-site recycling
☒ 1	☐ 2	i.	Permitting burdens inhibit recycling
☒ 1	☐ 2	j.	Lack of permitted off-site recycling facilities
☒ 1	☐ 2	k.	Unable to identify a market for recycled materials
☐ 1	☒ 2	l.	Recycling previously implemented - additional recycling does not appear to be technically feasible
☐ 1	☒ 2	m.	Recycling previously implemented - additional recycling does not appear to be economically feasible
☐ 1	☒ 2	n.	Recycling previously implemented - additional recycling does not appear to be feasible due to permitting requirements
☐ 1	☒ 2	o.	Other (SPECIFY COMMENTS IN BOX BELOW)

Comments: D:j. TIME

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description - Instruction page 18.
SPENT HALOGENATED SOLVENT GENERATED FROM DEGREASING OPERATIONS

B. EPA hazardous waste code Page 19.
F001 NA
NA NA NA

C. State hazardous waste code Page 19.
211 NA

D. SIC code Page 19.	E. Origin code Page 19	F. Source code Page 20.	G. Point of measurement Page 20.	H. Form code Page 20.	I. RCRA - radioactive mixed Page 20.
3471	1 System Type M NA	A07	1	B202	2

Sec. II

A. Quantity generated in 1992 Instruction Page 21.	B. Quantity generated in 1993 Page 21.	C. UOM Page 21.	Density	D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.
195	235	5	10.97	☐ 1 Yes (CONTINUE TO SYSTEM 1) ☒ 2 No (SKIP TO SEC. III)
		☒ 1 lbs/gal ☐ 2 sg		

ON-SITE PROCESS SYSTEM 1

On-site process system type Page 22. M

Quantity treated, disposed, or recycled on site in 1993

ON-SITE PROCESS SYSTEM 2

On-site process system type Page 22. M

Quantity treated, disposed, or recycled on site in 1993

Sec.III

A. Was any of this waste shipped off-site in 1993 Instruction page 23. ☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (SKIP TO SEC IV)

	B. EPA ID No. of facility waste was shipped to Page 23.	C. System type shipped to Page 23.	D. Off-site availability code Page 23.	E. Total quantity shipped in 1993 Page 23.
Site 1	CAD 008 364 432	M022	1	235
Site 2		M		

Sec. IV

A. Did new activities in 1993 result in minimization of this waste? Instruction page 24. ☐ 1 Yes (CONTINUE TO SYSTEM 1) ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.	C. Other effects Page 24.	D. Quantity recycled in 1993 due to new activities Page 25.	E. Activity/production index Page 25.	F. 1993 source reduction quantity Page 26.
W W W W	☐ 1 Yes ☐ 2 No		1.4	38

Comments:

EFORE COPYING FORM. ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: C A D 0 0 8 2 7 8 2 3 6

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description - Instruction page 19. RINSE WATER/OVERFLOW FROM ELECTROPLATING, CHARACTERISTICALLY HAZARDOUS FOR NICKEL. RESIDUE FROM NICKEL FILTER.

B. EPA hazardous waste code Page 19.
N A N A
N A N A N A

C. State hazardous waste code Page 19.
7 2 6 N A

D. SIC code Page 19.	E. Origin code 1 Page 19 System Type	F. Source code Page 20.	G. Point of measurement Page 20.	H. Form code Page 20.	I. RCRA - radioactive mixed Page 20.
3 4 7 1	M N A	A 2 2	1	B 1 1 3	2

Sec. II

A. Quantity generated in 1992 Instruction Page 21.	B. Quantity generated in 1993 Page 21.	C. UOM Page 21.	Density	D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.
3 1 5 0 4 2 .	3 4 7 5 9 6 .	5	NA . ☐ 1 lbs/gal ☐ 2 sg	☒ 1 Yes (CONTINUE TO SYSTEM 1) ☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2	
On-site process system type Page 22.	Quantity treated, disposed, or recycled on site in 1993	On-site process system type Page 22.	Quantity treated, disposed, or recycled on site in 1993
M 0 7 7	3 4 7 5 9 6 .	M N A	.

Sec.III

A. Was any of this waste shipped off-site in 1993 Instruction page 23. ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (SKIP TO SEC IV) SEE FORM GM, WASTEWATER TREATMENT

	B. EPA ID No. of facility waste was shipped to Page 23.	C. System type shipped to Page 23.	D. Off-site availability code Page 23.	E. Total quantity shipped in 1993 Page 23.
Site 1		M		.
Site 2		M		.

Sec. IV

A. Did new activities in 1993 result in minimization of this waste? Instruction page 24. ☒ 1 Yes (CONTINUE TO SYSTEM 1) ☐ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.	C. Other effects Page 24.	D. Quantity recycled in 1993 due to new activities Page 25.	E. Activity/production index Page 25.	F. 1993 source reduction quantity Page 26.
W 1 9 W 1 3 W W	☐ 1 Yes ☐ 2 No	.	1 . 4	9 3 4 6 3 .

mments: WATER CONSERVATION MEASURES

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 18 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description - Instruction page 18. RINSEWATERS FOR ELECTROPLATING, CHARACTERISTICALLY HAZARDOUS FOR CHROME (TRIVALENT AND HEXAVALENT)

B. EPA hazardous waste code Page 19.
D007 NA
NA NA NA

C. State hazardous waste code Page 19.
132 723

D. SIC code Page 19.	E. Origin code Page 19 / System Type	F. Source code Page 20.	G. Point of measurement Page 20.	H. Form code Page 20.	I. RCRA - radioactive mixed Page 20.
3471	1 / M NA	A 22	1	B 113	2

Sec. II

A. Quantity generated in 1992 Instruction Page 21.	B. Quantity generated in 1993 Page 21.	C. UOM Page 21.	Density	D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.
301635.	333112.	5	. NA ☐ 1 lbs/gal ☐ 2 sg	☒ 1 Yes (CONTINUE TO SYSTEM 1) ☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2	
On-site process system type Page 22.	Quantity treated, disposed, or recycled on site in 1993	On-site process system type Page 22.	Quantity treated, disposed, or recycled on site in 1993
M 071	333112.	M NA	.

Sec. III

A. Was any of this waste shipped off-site in 1993 Instruction page 23. ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (SKIP TO SEC IV) SEE FORM GM, WASTEWATER TREATMENT

	B. EPA ID No. of facility waste was shipped to Page 23.	C. System type shipped to Page 23.	D. Off-site availability code Page 23.	E. Total quantity shipped in 1993 Page 23.
Site 1		M		.
Site 2		M		.

Sec. IV

A. Did new activities in 1993 result in minimization of this waste? Instruction page 24. ☐ 1 Yes (CONTINUE TO SYSTEM 1) ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.	C. Other effects Page 24.	D. Quantity recycled in 1993 due to new activities Page 25.	E. Activity/production index Page 25.	F. 1993 source reduction quantity Page 26.
W W / W W	☐ 1 Yes ☐ 2 No	.	1.5	19341.

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1993 Hazardous Waste Report booklet before completing this form..

Sec. I

A. Waste description - Instruction page 19. SPENT CLEANERS AND RINSE WATERS CHARACTERISTICALLY HAZARDOUS FOR SODIUM HYDROXIDE

B. EPA hazardous waste code Page 19.
D002 NA
NA NA NA

C. State hazardous waste code Page 19.
122 NA

D. SIC code Page 19.	E. Origin code Page 19 / System Type	F. Source code Page 20.	G. Point of measurement Page 20.	H. Form code Page 20.	I. RCRA - radioactive mixed Page 20.
3471	1 / M NA	A03	1	B109	2

Sec. II

A. Quantity generated in 1992 Instruction Page 21.	B. Quantity generated in 1993 Page 21.	C. UOM Page 21.	Density	D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.
469211.	463461.	5	12.76 ☐ 1 lbs/gal ☐ 2 sg	☒ 1 Yes (CONTINUE TO SYSTEM 1) ☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type Page 22. M125

Quantity treated, disposed, or recycled on site in 1993 463461.

ON-SITE PROCESS SYSTEM 2

On-site process system type Page 22. M NA

Quantity treated, disposed, or recycled on site in 1993 ____.

Sec. III

A. Was any of this waste shipped off-site in 1993 Instruction page 23. ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (SKIP TO SEC IV)

	B. EPA ID No. of facility waste was shipped to Page 23.	C. System type shipped to Page 23.	D. Off-site availability code Page 23.	E. Total quantity shipped in 1993 Page 23.
Site 1		M		
Site 2		M		

Sec. IV

A. Did new activities in 1993 result in minimization of this waste? Instruction page 24. ☒ 1 Yes (CONTINUE TO SYSTEM 1) ☐ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.	C. Other effects Page 24.	D. Quantity recycled in 1993 due to new activities Page 25.	E. Activity/production index Page 25.	F. 1993 source reduction quantity Page 26.
W71 W14 / W W	☐ 1 Yes ☐ 2 No	____.	1.4	193434.

Comments: ON-SITE PROCESS SYSTEM 1: NEUTRALIZE, SETTLING/DEWATERING
SECTION IV B: INSTALLED LONG-LIFE CLEANING BATH WHICH REDUCED CHANGEOVERS

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description - Instruction page 18.
SPENT ACIDS; RINSEWATERS FROM ACID TANKS CHARACTERISTICALLY HAZARDOUS FOR HYDROCHLORIC ACID

B. EPA hazardous waste code Page 19.
D002 NA
NA NA NA

C. State hazardous waste code Page 19.
792 NA

D. SIC code Page 19.	E. Origin code 1 Page 19 System Type M NA	F. Source code Page 20.	G. Point of measurement Page 20.	H. Form code Page 20.	I. RCRA - radioactive mixed Page 20.
3471		A 26	1	B 103	2

Sec. II

A. Quantity generated in 1992 Instruction Page 21.	B. Quantity generated in 1993 Page 21.	C. UOM Page 21.	Density	D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.
254715.	304146.	5	9.6	XX 1 Yes (CONTINUE TO SYSTEM 1) ☐ 2 No (SKIP TO SEC. III)
			☐ 1 lbs/gal ☐ 2 sg	

ON-SITE PROCESS SYSTEM 1

On-site process system type Page 22. M 125

Quantity treated, disposed, or recycled on site in 1993 304146.

ON-SITE PROCESS SYSTEM 2

On-site process system type Page 22. M NA

Quantity treated, disposed, or recycled on site in 1993

Sec. III

A. Was any of this waste shipped off-site in 1993 Instruction page 23. ☐ 1 Yes (CONTINUE TO BOX B) XX 2 No (SKIP TO SEC IV)

	B. EPA ID No. of facility waste was shipped to Page 23.	C. System type shipped to Page 23.	D. Off-site availability code Page 23.	E. Total quantity shipped in 1993 Page 23.
Site 1		M		
Site 2		M		

Sec. IV

A. Did new activities in 1993 result in minimization of this waste? Instruction page 24. ☐ 1 Yes (CONTINUE TO SYSTEM 1) XX 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.	C. Other effects Page 24.	D. Quantity recycled in 1993 due to new activities Page 25.	E. Activity/production index Page 25.	F. 1993 source reduction quantity Page 28.
W 71 W 14 W W	☐ 1 Yes ☐ 2 No		1.4	52455.

Comments: ON-SITE PROCESS SYSTEM 1: NEUTRALIZATION, SETTLING, DEWATERING

SECTION IV,B: USE OF SALTS TO INCREASE BATH LIFE, REDUCING CHANGEOVERS.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description - Instruction page 19. WASTEWATER TREATMENT SLUDGE

B. EPA hazardous waste code Page 19.
F006 NA
NA NA NA

C. State hazardous waste code Page 19.
171 NA

D. SIC code Page 19. 3471

E. Origin code 5 Page 19
System Type M 125

F. Source code Page 20. A 75

G. Point of measurement Page 20. 4

H. Form code Page 20. B 504

I. RCRA - radioactive mixed Page 20. 2

Sec. II

A. Quantity generated in 1992 Instruction Page 21. 43380.

B. Quantity generated in 1993 Page 21. 38100.

C. UOM Page 21. 1 Density . ☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.
☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type Page 22. M

Quantity treated, disposed, or recycled on site in 1993 .

ON-SITE PROCESS SYSTEM 2

On-site process system type Page 22. M

Quantity treated, disposed, or recycled on site in 1993 .

Sec. III

A. Was any of this waste shipped off-site in 1993 Instruction page 23.
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC IV)

	B. EPA ID No. of facility waste was shipped to Page 23.	C. System type shipped to Page 23.	D. Off-site availability code Page 23.	E. Total quantity shipped in 1993 Page 23.
Site 1	AZD 980 735 500	M 019	1	26660.
Site 2		M		.

Sec. IV

A. Did new activities in 1993 result in minimization of this waste? Instruction page 24.
☒ 1 Yes (CONTINUE TO SYSTEM 1)
☐ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24. W 13 W 78 W 54 W

C. Other effects Page 24. ☐ 1 Yes ☒ 2 No

D. Quantity recycled in 1993 due to new activities Page 25. .

E. Activity/production index Page 25. 1.2

F. 1993 source reduction quantity Page 26. 13956.

Comments: SECTION 1 E: NEUTRALIZE, PERCIPITATION, CLARIFY, SETTLE, DEWATER
SECTION IV B: INCREASED USE OF FLOCCULANT, ADDED A GRAVITY FEED. INCREASED TRAINING OF OPERATOR, MORE EFFICIENT DRYING.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM **GM**

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 18 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description - Instruction page 18.
CONTAMINATED FILTER CARTRIDGES, CHARACTERISTICALLY HAZARDOUS FOR NICKEL OR CHROME

B. EPA hazardous waste code Page 19.
D007 NA
NA NA NA

C. State hazardous waste code Page 19.
181 NA

D. SIC code Page 19.
3471

E. Origin code 1 Page 19
System Type M NA

F. Source code Page 20.
A32

G. Point of measurement Page 20.
1

H. Form code Page 20.
B310

I. RCRA - radioactive mixed Page 20.
2

Sec. II

A. Quantity generated in 1992 Instruction Page 21.
750.

B. Quantity generated in 1993 Page 21.
1200.

C. UOM Page 21.
1 Density NA
☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.
☒ 1 Yes (CONTINUE TO SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type Page 22.
M032

Quantity treated, disposed, or recycled on site in 1993
1200.

ON-SITE PROCESS SYSTEM 2

On-site process system type Page 22.
M NA

Quantity treated, disposed, or recycled on site in 1993

Sec. III

A. Was any of this waste shipped off-site in 1993 Instruction page 23.
☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (SKIP TO SEC IV)

	B. EPA ID No. of facility waste was shipped to Page 23.	C. System type shipped to Page 23.	D. Off-site availability code Page 23.	E. Total quantity shipped in 1993 Page 23.
Site 1		M		
Site 2		M		

Sec. IV

A. Did new activities in 1993 result in minimization of this waste? Instruction page 24.
☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.	C. Other effects Page 24.	D. Quantity recycled in 1993 due to new activities Page 25.	E. Activity/production index Page 25.	F. 1993 source reduction quantity Page 26.
W W W W	☐ 1 Yes ☐ 2 No			

Comments:
ON-SITE PROCESS SYSTEM 1: SOAK, WASH IN WASHING MACHINE (DRAINS TO CLARIFIER) SPUN, AIR DRY. CLEAN ENOUTH FOR REUSE! RECYCLED!

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

FORM **PS**

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

WASTE TREATMENT, DISPOSAL, OR RECYCLING PROCESS SYSTEMS

INSTRUCTIONS: Read the detailed instructions beginning on page 33 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste treatment, disposal, or recycling system description
Instruction Page 38.
WASTEWATER TREATMENT SYSTEM FOR TREATING RINSE WATERS, SPENT ACIDS AND CAUSTICS, FROM NICKEL/CHROME ELECTROPLATING

B. System type Page 38.	C. Regulatory status Page 39.	D. Operational status Page 39.	E. Unit types Page 39.
M125	03	01	01

Sec. II

A. 1993 influent quantity
Instruction page 40.

		UOM	Density
Total	1448315	5	NA
RCRA	1448315		☐ 1 lbs/gal ☐ 2 sg

B. Maximum operational capacity
Page 41.

Total	3000000
RCRA	3000000

C. 1993 liquid effluent quantity
Instruction page 42.

		UOM	Density
Total	1443221	5	7.48
RCRA	1443221		☐ 1 lbs/gal ☐ 2 sg

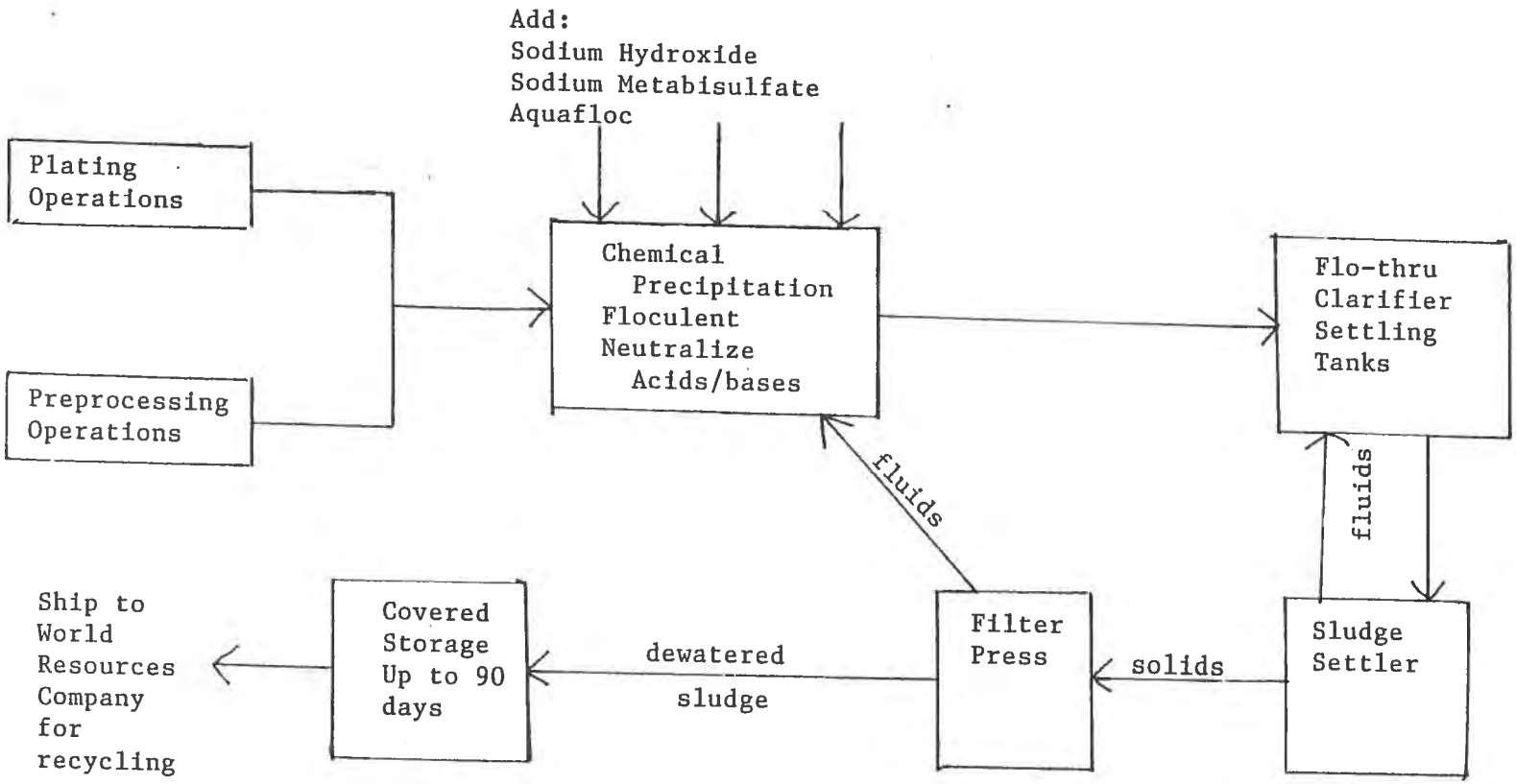
D. 1993 solid/sludge residual quantity
Page 42.

		UOM	Density
Total	38100	1	
RCRA	38100		☐ 1 lbs/gal ☐ 2 sg

E. Limitation on maximum operational capacity Page 43.	F. Commercial capacity availability code Page 43.	G. Percent capacity commercially available Page 43.
1. 02 2. 03 3. 05	1	NA %

Comments:

WASTETREATMENT SYSTEM:
SECTION 1 B:
1. M071 CHROME REDUCTION FOLLOWED BY PRECIPITATION
2. M077 CHEMICAL PRECIPITATION
3. M021 NEUTRALIZATION
4. M023 SETTLING AND CLARIFICATION
5. M101 SLUDGE DEWATERING



FOSS PLATING CO
Plating Operations
Wastewater treatment

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM PS

WASTE TREATMENT, DISPOSAL, OR RECYCLING PROCESS SYSTEMS

INSTRUCTIONS: Read the detailed instructions beginning on page 33 of the 1993 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste treatment, disposal, or recycling system description Instruction Page 38. WASHING CONTAMINATED FILTER CARTRIDGES FROM ELECTROPLATING, CHARACTERISTICALLY HAZARDOUS FOR NICKEL

B. System type Page 38.	C. Regulatory status Page 39.	D. Operational status Page 39.	E. Unit types Page 39.
M125	03	01	01

Sec. II

A. 1993 influent quantity Instruction page 40.

Total 1200. UOM 1 Density .NA

RCRA 1200. ☐ 1 lbs/gal ☐ 2 sg

B. Maximum operational capacity Page 41.

Total NA.

RCRA .

C. 1993 liquid effluent quantity Instruction page 42.

Total NA. UOM Density .

RCRA . ☐ 1 lbs/gal ☐ 2 sg

D. 1993 solid/sludge residual quantity Page 42.

Total 1200. UOM 1 Density .NA

RCRA . ☐ 1 lbs/gal ☐ 2 sg

E. Limitation on maximum operational capacity Page 43.	F. Commercial capacity availability code Page 43.	G. Percent capacity commercially available Page 43.
1. 05 2. 09 3.	1	NA %

Comments: SECTION 1 B:
1. SOAK IN BARREL, WATER AND CAUSTIC SODA
2. WASH IN WASHING MACHINE, WHICH DRAINS TO THE CLARIFIER
3. SPUN, THEN AIR DRY

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1993 Hazardous Waste Report

FORM OI

OFF-SITE IDENTIFICATION

INSTRUCTIONS: Read the detailed instructions on the reverse side before completing this form.

Site 1

A. EPA ID No. of off-site installation or transporter: CAD 059 240 713

B. Name of off-site installation or transporter: MC NOTTINGHAM CO OF SOUTHERN CALIFORNIA

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☒ Transporter
- ☐ TSDR

D. Address of generator
Street: NA
City:
State: Zip:

Site 2

A. EPA ID No. of off-site installation or transporter: AZD 980 735 500

B. Name of off-site installation or transporter: WORLD RESOURCES CO

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☒ TSDR

D. Address of generator
Street: 8113 WEST SHERMAN STREET
City: PHOENIX
State: AZ Zip: 85043

Site 3

A. EPA ID No. of off-site installation or transporter: CAD 980 584 510

B. Name of off-site installation or transporter: CKC INC. [illegible]

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☒ Transporter
- ☐ TSDR

D. Address of generator
Street: NA
City:
State: Zip:

Site 4

A. EPA ID No. of off-site installation or transporter: CAD 008 364 432

B. Name of off-site installation or transporter: RHO CHEM CORP

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☒ Transporter
- ☒ TSDR

D. Address of generator
Street: 425 ISIS
City: INGLEWOOD
State: CA Zip: 90301

Site 5

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of generator
Street:
City:
State: Zip:

Comments:

MAIL THE COMPLETED FORM TO: The appropriate EPA Regional or State Office.	United States Environmental Protection Agency **RCRA SUBTITLE C SITE IDENTIFICATION FORM - 2005**
1. Reason for Submittal (see instructions on page 9) MARK ALL BOX(ES) THAT APPLY	**A. Reason for Submittal:** ☐ To provide initial notification (to obtain an EPA ID Number for hazardous waste, universal waste or used oil activities). ☐ To provide subsequent notification (to update site identification information). ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application. ☐ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #) ☒ As a component of Hazardous Waste Report.
2. Site EPA ID Number (see instructions on page 10)	**EPA ID Number:** CAD008278236
3. SiteName (see instructions on page 11)	**Site Name:** Foss Plating Company, Inc
4. Site Location Information (see instructions on page 10)	**Street Address:** 8140 Secura Way **City, Town or Village:** Santa Fe Springs **State:** CA **County Name:** LOS ANGELES **Zip Code:** 90670
5. Site Land Type (see instructions on page 10)	**Site Land Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other
6. North American Industry Classification System (NAICS) Code(s) for the Site (see instructions on page 10)	**A.** 332813 **B.** **C.** **D.**
7. Site Mailing Address (see instructions on page 11)	**Street or P.O. Box:** same **City, Town or Village:** same **State:** CA **Country:** UNITED STATES **Zip Code:** 90670
8. Site Contact Person (see instructions on page 11)	**First Name:** Carol **MI:** **Last Name:** McCracken **Phone Number:** 5629453451 **Extension:** **Email Address:** mccracken_carol@yahoo.com
9. Operator and Legal Owner of the Site (see instructions on page 11 and 12)	**Name of Site's Operator:** Foss Plating Company, Inc **Date Became Operator (mm/dd/yyyy):** 10/01/1958 **Operator Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other **Name of Site's Legal Owner:** Foss Plating Company **Date Became Owner (mm/dd/yyyy):** 10/01/1958 **Owner Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

9. Legal Owner (Continued) Address	Street or P.O. Box: same	
	City, Town or Village:	
	State:	
	Country: UNITED STATES	Zip Code:

10. Type of Regulated Waste Activity (Mark "Yes" or "No" for all activities; complete an additional boxes as instructed)

A. Hazardous Waste Activities
Complete all parts for 1 through 6.

Y [x] N [ ] **1. Generator of Hazardous Waste**
If "Yes", choose only one of the following - a, b or c.

- [x] a. LQG: Greater than 1000 kg/mo (2,200 lbs.) of non-acute hazardous waste; or
- [ ] b. SQG: 100 to 1000 kg/mo (220 - 2,200 lbs.) of non-acute hazardous waste; or
- [ ] c. CESQG: Less than 100 kg/mo (220 lbs.) of non-acute hazardous waste

In addition, indicate other generator activities.

Y [ ] N [x] d. United States Importer of Hazardous Waste

Y [ ] N [x] e. Mixed Waste (hazardous and radioactive) Generator

Y [ ] N [x] **2. Transporter of Hazardous Waste**

Y [ ] N [x] **3. Treater, Storer or Disposer of Hazardous Waste (at your site)**
Note: A hazardous waste permit is required for this activity.

Y [ ] N [x] **4. Recycler of Hazardous Waste (at your site)**

Y [ ] N [x] **5. Exempt Boiler and/or Industrial Furnace**

- [ ] a. Small Quantity On-Site Burner Exemption
- [ ] b. Smelting, Melting, Refining Furnace Exemption

Y [ ] N [x] **6. Underground Injection Control**

B. Universal Waste Activities

Y [ ] N [x] **1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste generated and/or accumulated at your site. If "Yes", markall boxes that apply:**

	Generated	Accumulated
a. Batteries	[ ]	[ ]
b. Pesticides	[ ]	[ ]
c. Thermostats	[ ]	[ ]
d. Lamps	[ ]	[ ]
e. Other (specify)	[ ]	[ ]
f. Other (specify)	[ ]	[ ]
g. Other (specify)	[ ]	[ ]

Y [ ] N [x] **2. Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities
Mark all boxes that apply.

Y [ ] N [x] **1. Used Oil Transporter**
If "Yes", mark each that applies.
- [ ] a. Transporter
- [ ] b. Transfer Facility

Y [ ] N [x] **2. Used Oil Processor and/or Re-refiner**
If "Yes", mark each that applies.
- [ ] a. Processor
- [ ] b. Re-refiner

Y [ ] N [x] **3. Off-Specification Used Oil Burner**

Y [ ] N [x] **4. Used Oil Fuel Marketer**
If "Yes", mark each that applies.
- [ ] a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
- [ ] b. Marketer Who First Claims the Used Oil Meets the Specifications

11. Description of Hazardous Wastes (see instructions on page 16)

A. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D002	D007	D008	D010	D011		

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if needed for more waste codes.

171	181	726				

12. Comments (see instructions on page 17)

13. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons direcly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. **(see instructions on page 17)**

Signature of owner, operator, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
	Victor E Foss, President	02/27/2006

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc

EPA ID NO: CAD008278236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2005 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructionson pages 17 to 25 of the instructions and forms booklet before completing this form.

Sec. 1

A. Waste Description: Enter Waste Description Here Polishing dust, spent filters and bags, hazardous for nickel, chrome, lead

B. EPA Hazardous Waste Codes: D007 D008 D010 D011 NA

C. State Hazardous Waste Codes: 181

D. Source Code: G09

Management Method Code for Source Code G25

E. Form Code:

F. Quantity Generated in reporting year: 2,000.000000

G. UOM: 1

Density: ☐ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on-site?

☐ Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)

☒ No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2	
On-site Management Method Code	Quantity treated, disposed or recycled on-site	On-site Management Method Code	Quantity treated, disposed or recycled on-site

Sec. 3

A. Was any of this waste shipped off-site for treatment, disposal or recycling?

☒ Yes (CONTINUE TO BOX B) ☐ No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method Code Shipped to	D. Total quantity shipped (page 26)
Site 1	NVT330010000	H132	2,000.000000
Site 2			
Site 3			

Comments: Polishing dust, spent filters and bags hazardousfor metals: chrome, lead. Waste from metal polishing and plating operations

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc

EPA ID NO: CAD008278236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2005 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructionson pages 17 to 25 of the instructions and forms booklet before completing this form.

Sec. 1

A. Waste Description: Enter Waste Description Here: Wastewater treatment sludge from metal finishing operatins with metals: nickel and chrome

B. EPA Hazardous Waste Codes: F006 NA NA NA NA

C. State Hazardous Waste Codes: 171

D. Source Code: G23

Management Method Code for Source Code G25:

E. Form Code:

F. Quantity Generated in reporting year: 39,740.000000

G. UOM: 1

Density: ☐ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on-site?

☒ Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)

☐ No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2	
On-site Management Method Code	Quantity treated, disposed or recycled on-site	On-site Management Method Code	Quantity treated, disposed or recycled on-site
H101	17,607.000000	NA	

Sec. 3

A. Was any of this waste shipped off-site for treatment, disposal or recycling?

☒ Yes (CONTINUE TO BOX B) ☐ No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method Code Shipped to	D. Total quantity shipped (page 26)
Site 1	AZD980735500	H010	22,133.000000
Site 2			
Site 3			

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company, Inc

EPA ID NO: CAD008278236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2005 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructionson pages 17 to 25 of the instructions and forms booklet before completing this form.

Sec. 1

A. Waste Description: Enter Waste Description Here: Spent nickel plating solution withnickel chloride, nickel sulfate, nickel sulfanate

B. EPA Hazardous Waste Codes: D002 NA NA NA NA

C. State Hazardous Waste Codes: 726

D. Source Code: G03

Management Method Code for Source Code G25

E. Form Code:

F. Quantity Generated in reporting year: 3,000.000000

G. UOM: 5

Density: 9.50

[X] lbs/gal [ ] sg

Sec. 2

Was any of this waste managed on-site?

[ ] Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)

[X] No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2	
On-site Management Method Code	Quantity treated, disposed or recycled on-site	On-site Management Method Code	Quantity treated, disposed or recycled on-site

Sec. 3

A. Was any of this waste shipped off-site for treatment, disposal or recycling?

[X] Yes (CONTINUE TO BOX B) [ ] No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method Code Shipped to	D. Total quantity shipped (page 26)
Site 1	CAD008488025	H010	3,000.000000
Site 2			
Site 3			

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY INC
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

U. S. EPA ID NO: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1997 Hazardous Waste Report

FORM IC

IDENTIFICATION AND CERTIFICATION

Instructions: Please see the detailed instructions beginning on page 7 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each section is provided below.

Sec. I Site name and location address. Check the box ☐ in items A, B, C, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instructions page 7.

A. U. S. EPA ID No.
Same as label ☐ or → CAD008278236

B. County
Same as label ☐ or → LOS ANGELES

C. Site/company name
Same as label ☐ or → FOSS PLATING COMPANY INC

D. Has the site name associated with this U. S. EPA ID changed since 1995?
☐ 1 Yes ☒ 2 No

E. Street name and number. If not applicable, enter industrial park, building name, or other physical location description.
Same as label ☐ or → 8140 SECURA WAY

F. City, town, village
Same as label ☐ or → SANTA FE SPRINGS

G. State
Same as label ☐ or → CA

H. Zip Code
Same as label ☐ or → 90670 -

Sec. II Mailing address of site. Instructions page 7.

A. Is the mailing address the same as the location address? ☒ 1 Yes (SKIP TO SEC. III) ☐ 2 No (CONTINUE TO BOX B)

B. Number and street name of mailing address

C. City, town, village

D. State

E. Zip Code -

Sec. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instructions page 7.

A. Last Name: McCRACKEN First name: CAROL M.I.: FOSS

B. Title: ENVIRONMENTAL MANAGER

C. Telephone Number: 562 945 3451
Extension

Sec. IV "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for knowing violations." Instructions page 8.

A. Last Name: FOSS, First name: VICTOR E. M.I.:

B. Title: PRESIDENT

C. Signature: Victor E Foss

D. Date of signature: 12 23 98
Month Day Year

U. S. EPA ID NO. C A D 0 0 8 2 7 8 2 3 6

Sec. V Generator status. Instructions begin on page 8.

A. 1997 RCRA generator status (CHECK ONE BOX BELOW)	B. Reason for not generating (CHECK ALL THAT APPLY)	
☒ 1 LQG ☐ 2 SQG ☐ 3 CESQG } SKIP TO SEC. VI ☐ 4 Non-generator (CONTINUE TO BOX B)	☐ 1 Never generated ☐ 2 Out of business ☐ 3 Only excluded or delisted waste ☐ 4 Only non-hazardous waste	☐ 5 Periodic or occasional generator ☐ 6 Waste minimization activity ☐ 7 Other (SPECIFY IN COMMENTS BOX BELOW)

Sec. VI On-site waste management status. Instructions page 10.

A. Storage subject to RCRA permitting requirements	B. Treatment, disposal, or recycling subject to RCRA permitting requirements
1	1

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY INC
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

U. S. EPA ID NO: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1997 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12) SPENT CLEANERS AND RINSE WATERS CHARACTERISTICALLY HAZARDOUS FOR SODIUM HYDROXIDE AND OTHER WATER-BASED CLEANERS

B. U. S. EPA hazardous waste code (page 12): D002, NA, NA, NA, NA

C. State hazardous waste code (page 13): 121, NA

D. SIC code (page 13): 3471

E. Origin code (page 13): 1; System Type

F. Source code (page 14): 03

G. Point of measurement (p. 14): 1

H. Form code (page 14): 1109

I. RCRA-radioactive mixed (page 14): 2

Sec. II

A. Quantity generated in 1997 (page 15): 663268.0

B. UOM (page 15): 5; Density 12.76; ☒ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type (page 16): 125

Quantity treated, disposed, or recycled on site in 1997 (page 16): 663268.0

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16):

Quantity treated, disposed, or recycled on site in 1997 (page 16):

Sec. III

A. Was any of this waste shipped off site in 1997 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE) SEE WASTEWATER TREATMENT SLUDGE

	B. U. S. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1997 (page 17)
Site 1				
Site 2				
Site 3				

Comments: NEUTRALIZATION
CHEMICAL PRECIPITATION IF NEEDED
SETTLING
DE WATERING, DISCHARGE TO POTW

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY INC
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

U. S. EPA ID NO: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1997 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12): SPENT ACIDS AND RINSE WATERS FROM ACID TANKS CHARACTERISTICALLY HAZARDOUS FOR HYDROCHLORIC ACID AND/OR SULFURIC ACID

B. U. S. EPA hazardous waste code (page 12): D002 NA NA NA NA

C. State hazardous waste code (page 13): 792 NA

D. SIC code (page 13): 3471

E. Origin code (page 13): 1 System Type

F. Source code (page 14): 02

G. Point of measurement (p. 14): 1

H. Form code (page 14): 103

I. RCRA-radioactive mixed (page 14): 2

Sec. II

A. Quantity generated in 1997 (page 15): 663535.0

B. UOM (page 15): 5 Density 9.6 ☒ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type (page 16): 125

Quantity treated, disposed, or recycled on site in 1997 (page 16): 663535.0

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16):

Quantity treated, disposed, or recycled on site in 1997 (page 16):

Sec. III

A. Was any of this waste shipped off site in 1997 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE) SEE WASTEWATER TREATMENT SLUDGE

	B. U. S. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1997 (page 17)
Site 1				
Site 2				
Site 3				

Comments:
NEUTRALIZATION
CHEMICAL PRECIPITATION AS NEEDED
SETTLING
DEWATERING DISCHARGE TO POTW

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY INC
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

U. S. EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1997 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12) RINSEWATER/ OVERFLOW FROM ELECTROPLATING CHARACTERISTICALLY HAZARDOUS FOR NICKEL. ALSO, RESIDUE FROM NICKEL FILTERS.

B. U. S. EPA hazardous waste code (page 12): NA, NA, NA, NA, NA

C. State hazardous waste code (page 13): 726, NA

D. SIC code (page 13): 3471

E. Origin code (page 13): 1 System Type

F. Source code (page 14): 22

G. Point of measurement (p. 14): 1

H. Form code (page 14): 113

I. RCRA-radioactive mixed (page 14): 2

Sec. II

A. Quantity generated in 1997 (page 15): 644665.0

B. UOM (page 15): 5 Density NA. ☐ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type (page 16): 077

Quantity treated, disposed, or recycled on site in 1997 (page 16): 644665.0

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16): 125

Quantity treated, disposed, or recycled on site in 1997 (page 16): 644665.0

Sec. III

A. Was any of this waste shipped off site in 1997 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE) SEE WASTEWATER TREATMENT SLUDGE

	B. U. S. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1997 (page 17)
Site 1				
Site 2				
Site 3				

Comments:
SETTLING
CLARIFICATION
DEWATERING
DISCHARGE TO POTW

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY INC
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

U. S. EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1997 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12) Rinsewaters and overflow from electroplating characteristically hazardous for Chromium (Hexavalent and/or Trivalent)

B. U. S. EPA hazardous waste code (page 12) D007 NA NA NA NA

C. State hazardous waste code (page 13) 723 NA

D. SIC code (page 13) 3471

E. Origin code (page 13) 1 System Type M NA

F. Source code (page 14) A 22

G. Point of measurement (p. 14) 1

H. Form code (page 14) B 113

I. RCRA-radioactive mixed (page 14) 2

Sec. II

A. Quantity generated in 1997 (page 15) 800768.0

667.84 DS.1

B. UOM (page 15) 5 8.34 gal

Density NA

☐ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type (page 16) M 071

Quantity treated, disposed, or recycled on site in 1997 (page 16) 800768.0

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16) M 125

Quantity treated, disposed, or recycled on site in 1997 (page 16) 800768.0

Sec. III

A. Was any of this waste shipped off site in 1997 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE) SEE WASTEWATER TREATMENT SLUDGE

	B. U. S. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1997 (page 17)
Site 1		M		
Site 2		M		
Site 3		M		

Comments: SETTLING
CLARIFICATION
DEWATERING
DISCHARGE TO POTW

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY INC
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

U. S. EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1997 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12): WASTEWATER TREATMENT SLUDGE

B. U. S. EPA hazardous waste code (page 12): F006 NA; NA NA NA

C. State hazardous waste code (page 13): 171 NA

D. SIC code (page 13): 3471

E. Origin code (page 13): 5; System Type: 125

F. Source code (page 14): 75

G. Point of measurement (p. 14): 4

H. Form code (page 14): 502

I. RCRA-radioactive mixed (page 14): 2

Sec. II

A. Quantity generated in 1997 (page 15): 14.9

B. UOM (page 15): 2; Density: ☐ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☐ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type (page 16):

Quantity treated, disposed, or recycled on site in 1997 (page 16):

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16):

Quantity treated, disposed, or recycled on site in 1997 (page 16):

Sec. III

A. Was any of this waste shipped off site in 1997 for treatment, disposal, or recycling? (page 17)
☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. U. S. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1997 (page 17)
Site 1	AZD 980 735 500	0119	1	5.5
Site 2	CAT 080 033 681	019	1	8.1
Site 3				

Comments:
M125 PRECIPITATION, NEUTRALIZATION, CLARIFICATION, SETTLING, DEWATER
M019 NICKEL RECOVERY (FOR RECYCLING)

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

TE NAME: FOSS PLATING COMPANY, INC
8140 SECURA WAY
SANTA FE SPRINGS CA 90670

EPA ID NO: CAD 008 278 236

FORM IC

U.S. ENVIRONMENTAL PROTECTION AGENCY

1999 Hazardous Waste Report

IDENTIFICATION AND CERTIFICATION

Instructions: Please see the detailed instructions beginning on page 7 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each section is provided below.

Sec. I Site name and location address. Check the box ☐ in items A, B, C, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instructions page 7.

A. EPA ID No.
Same as label ☐ or → CAD 008 278 236

B. County
Same as label ☐ or → LOS ANGELES

C. Site/company name
Same as label ☐ or → FOSS PLATING COMPANY, INC

D. Has the site name associated with this EPA ID changed since 1997?
☐ 1 Yes ☒ 2 No

E. Street name and number. If not applicable, enter industrial park, building name, or other physical location description.
Same as label ☐ or →
8140 SECURA WAY

F. City, town, village
Same as label ☐ or → SANTA FE SPRINGS

G. State
Same as label ☐
or → CA

H. Zip Code
Same as label ☐ or →
90670 -

Sec. II Mailing address of site. Instructions page 7.

A. Is the mailing address the same as the location address? ☐ 1 Yes (SKIP TO SEC. III) ☒ 2 No (CONTINUE TO BOX B)

B. Number and street name of mailing address
PO BOX 2667

C. City, town, village
SANTA FE SPRINGS

D. State
CA

E. Zip Code
90670 - 0667

Sec. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instructions page 7.

A. Last Name: McCRACKEN, First name: CAROL M.I.: FOSS

B. Title
ENVIRONMENTAL MANAGER

C. Telephone Number
562 945 - 3451
Extension

Sec. IV "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for knowing violations." Instructions page 8.

A. Last Name: FOSS, First name: VICTOR M.I.: E.

B. Title
PRESIDENT

C. Signature
Victor E Foss

D. Date of signature
3 28 00
Month Day Year

Over →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1999 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12) SPENT CLEANERS AND RINSE WATERS CHARACTERISTICALLY HAZARDOUS FOR SODIUM HYDROXIDE AND OTHER WATER-BASED CLEANERS

B. EPA hazardous waste code (page 12) D002 NA / NA NA NA

C. State hazardous waste code (page 13) 121 NA

D. SIC code (page 13)	E. Origin code (page 13) System Type	F. Source code (page 14)	G. Point of measurement (p. 14)	H. Form code (page 14)	I. RCRA-radioactive mixed (page 14)
3471	1 / M	A03	1	B109	2

Sec. II

A. Quantity generated in 1999 (page 15) 363596.0

B. UOM (page 15) 5 Density 12.76 ☒ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM

On-site process system type (page 16)	Quantity treated, disposed, or recycled on site in 1999 (page 16)
M125	363596.0

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16)	Quantity treated, disposed, or recycled on site in 1999 (page 16)
M	.

Sec. III

A. Was any of this waste shipped off site in 1999 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1999 (page 17)
Site 1		M		.
Site 2		M		.
Site 3		M		.

Comments: M125: NEUTRALIZATION, CHEMICAL PRECIPITATION AS NEEDED, SETTLING, DE WATERING DISCHARGE TO POTW

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1999 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12) SPENT ACIDS AND RINSE WATERS FROM ACID TANKS CHARACTERISTICALLY HAZARDOUS FOR HYDROCHLORIC ACID AND/OR SULFURIC ACID

B. EPA hazardous waste code (page 12): D002, NA, NA, NA, NA, NA

C. State hazardous waste code (page 13): 792, NA

D. SIC code (page 13)	E. Origin code (page 13) / System Type	F. Source code (page 14)	G. Point of measurement (p. 14)	H. Form code (page 14)	I. RCRA-radioactive mixed (page 14)
3471	1 / M	A02	1	B103	2

Sec. II

A. Quantity generated in 1999 (page 15): 359640.0

B. UOM (page 15): 5 Density: 9.6 ☒ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM

On-site process system type (page 16): M125

Quantity treated, disposed, or recycled on site in 1999 (page 16): 359640.0

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16): M

Quantity treated, disposed, or recycled on site in 1999 (page 16):

Sec. III

A. Was any of this waste shipped off site in 1999 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1999 (page 17)
Site 1		M		
Site 2		M		
Site 3		M		

Comments: M125: NEUTRALIZE, CHEMICAL PRECIPITATION AS NEEDED, SETTLING, CLARIFICATION, DE WATERING, DISCHARGE TO POTW

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company

EPA ID NO: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1999 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12) RINSEWATER/OVERFLOW FROM ELECTROPLATING CHARACTERISTICALLY HAZARDOUS FOR NICKEL. INCLUDES RESIDUE FROM NICKEL FILTERS

B. EPA hazardous waste code (page 12): NA, NA, NA, NA, NA, NA

C. State hazardous waste code (page 13): 726, NA

D. SIC code (page 13)	E. Origin code (page 13) / System Type	F. Source code (page 14)	G. Point of measurement (p. 14)	H. Form code (page 14)	I. RCRA-radioactive mixed (page 14)
3471	1 / M	A22	1	B113	2

Sec. II

A. Quantity generated in 1999 (page 15): 349240.0

B. UOM (page 15): 5 Density: NA. ☐ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM		ON-SITE PROCESS SYSTEM 2	
On-site process system type (page 16)	Quantity treated, disposed, or recycled on site in 1999 (page 16)	On-site process system type (page 16)	Quantity treated, disposed, or recycled on site in 1999 (page 16)
M077	349240.0	M125	349240.0

Sec. III

A. Was any of this waste shipped off site in 1999 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1999 (page 17)
Site 1		M		
Site 2		M		
Site 3		M		

Comments: M125: SETTLING, CLARIFICATIOAN, DE WATERING, DISCHARGE TO POTW

OMB#: 2050-0024 Expires 11/30/2000

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1999 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12): RINSEWATERS AND OVERFLOW FROM ELECTROPLATING CHARACTERISTICALLY HAZARDOUS FOR CHROME (HEXAVALENT AND/OR TRIVALENT) ALSO RESIDUE FROM FILTERS

B. EPA hazardous waste code (page 12): D007, NA, NA, NA, NA, NA

C. State hazardous waste code (page 13): 723, NA

D. SIC code (page 13)	E. Origin code (page 13)	F. Source code (page 14)	G. Point of measurement (p. 14)	H. Form code (page 14)	I. RCRA-radioactive mixed (page 14)
3471	1 System Type: M	A22	1	B113	2

Sec. II

A. Quantity generated in 1999 (page 15): 349240.0

B. UOM (page 15): 5 Density: 8.34 ☒ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)
☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM

On-site process system type (page 16): M071

Quantity treated, disposed, or recycled on site in 1999 (page 16): 349240.0

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16): M125

Quantity treated, disposed, or recycled on site in 1999 (page 16): 349240.0

Sec. III

A. Was any of this waste shipped off site in 1999 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1999 (page 17)
Site 1		M		
Site 2		M		
Site 3		M		

Comments: M125: SETTLING, CLARIFICATION, DE WATERING, DISCHARGE TO POTW

EPA ID NO. CAD008278236

Sec. V	Generator status. Instructions begin on page 8.

1999 RCRA generator status	B. Reason for not generating	
(CHECK ONE BOX BELOW)	(CHECK ALL THAT APPLY)	
☒ 1 LQG ☐ 2 SQG ☐ 3 CESQG } SKIP TO SEC. VI ☐ 4 Non-generator (CONTINUE TO BOX B)	☐ 1 Never generated ☐ 2 Out of business ☐ 3 Only excluded or delisted waste ☐ 4 Only non-hazardous waste	☐ 5 Periodic or occasional generator ☐ 6 Waste minimization activity ☐ 7 Other (SPECIFY IN COMMENTS BOX BELOW)

Sec. VI	On-site waste management status. Instructions page 10.
A. Storage subject to RCRA permitting requirements 1	B. Treatment, disposal, or recycling subject to RCRA permitting requirements 1

Comments:

OMB#: 2050-0024 Expires 11/30/2000

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Foss Plating Company

EPA ID NO: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

1999 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 11 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. I

A. Waste description (page 12): WASTEWATER TREATMENT SLUDGE

B. EPA hazardous waste code (page 12): F006, NA, NA, NA, NA, NA

C. State hazardous waste code (page 13): 171, NA

D. SIC code (page 13): 3471

E. Origin code (page 13): 5 System Type: M125

F. Source code (page 14): A75

G. Point of measurement (p. 14): 4

H. Form code (page 14): B502

I. RCRA-radioactive mixed (page 14): 2

Sec. II

A. Quantity generated in 1999 (page 15): 19.5

B. UOM (page 15): 2 Density: ___ . ___ ☐ 1 lbs/gal ☐ 2 sg

C. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? (page 15)

☐ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM

On-site process system type (page 16): M

Quantity treated, disposed, or recycled on site in 1999 (page 16): ___ . ___

ON-SITE PROCESS SYSTEM 2

On-site process system type (page 16): M

Quantity treated, disposed, or recycled on site in 1999 (page 16): ___ . ___

Sec. III

A. Was any of this waste shipped off site in 1999 for treatment, disposal, or recycling? (page 17)
☐ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility waste was shipped to (page 17)	C. System type shipped to (p. 17)	D. Off-site availability code (page 17)	E. Total quantity shipped in 1999 (page 17)
Site 1	ADD980735500	M019	1	19.2
Site 2		M		___ . ___
Site 3		M		___ . ___

Comments: M125: PRECIPITATION, NEUTRALIZATION, CLARIFICATION, SETTLING, DE WATER
M019: NICKEL RECOVERY (FOR RECYCLING)

MAIL THE COMPLETED FORM TO: The appropriate EPA Regional or State Office.	United States Environmental Protection Agency **RCRA SUBTITLE C SITE IDENTIFICATION FORM**	
1. Reason for Submittal (see instructions on page 10) CHECK CORRECT BOX(ES)	**Reason for Submittal:** ☐ To provide initial notification (to obtain an EPA ID Number for hazardous waste, universal waste, or used oil activities). ☐ To provide subsequent notification (to update site identification information). ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application. ☐ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #_____). ☒ As a component of the Hazardous Waste Report.	
2. Site EPA ID Number (see instructions on page 11)	**EPA ID Number:** C A D 0 0 8 2 7 8 2 3 6	
3. Site Name (see instructions on page 11)	**Name:** FOSS PLATING COMPANY, INC	
4. Site Location Information (see instructions on page 11)	**Street Address:** 8140 SECURA WAY	
	City, Town, or Village: SANTA FE SPRINGS	**State:** CA
	County Name: LOS ANGELES	**Zip Code:** 90670
5. Site Land Type (see instructions on page 11)	**Site Land Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other	
6. North American Industry Classification System (NAICS) Code(s) for the Site (see instructions on page 11)	**A.** 332813	**B.** NA
	C. NA	**D.** NA
7. Site Mailing Address (see instructions on page 12)	**Street or P. O. Box:** SAME	
	City, Town, or Village:	
	State:	
	Country:	**Zip Code:**
8. Site Contact Person (see instructions on page 12)	**First Name:** CAROL **MI:** F.	**Last Name:** McCRACKEN
	Phone Number: (562) 945-3451	**Phone Number Extension:** NA
9. Legal Owner and Operator of the Site (see instructions on pages 12 and 13)	**A. Name of Site's Legal Owner:** FOSS PLATING CO.,INC	**Date Became Owner (mm/dd/yyyy):** 10/1/1958
	Owner Type: ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other	
	B. Name of Site's Operator: VICTOR E. FOSS PRESIDENT	**Date Became Operator (mm/dd/yyyy):** 09/12/1994
	Operator Type: ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other	

EPA ID No. C A D 0 0 8 2 7 8 2 3 6

10. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. See instructions on pages 13, 14, 15, and 16)

A. Hazardous Waste Activities

1. **Generator of Hazardous Waste**
(choose only one of the following three categories)

- ☒ a. LQG: Greater than 1,000 kg/mo (2,200 lbs./mo.) of non-acute hazardous waste; or
- ☐ b. SQG: 100 to 1,000 kg/mo (220 - 2,200 lbs./mo.) of non-acute hazardous waste; or
- ☐ c. CESQG: Less than 100 kg/mo (220 lbs./mo.) of non-acute hazardous waste

In addition, indicate other generator activities (check all that apply)

- ☐ d. United States Importer of Hazardous Waste
- ☐ e. Mixed Waste (hazardous and radioactive) Generator

For Items 2 through 6, check all that apply:

- ☐ 2. **Transporter of Hazardous Waste**
- ☐ 3. **Treater, Storer, or Disposer of Hazardous Waste (at your site)** Note: A hazardous waste permit is required for this activity.
- ☐ 4. **Recycler of Hazardous Waste (at your site)** Note: A hazardous waste permit may be required for this activity.
- 5. **Exempt Boiler and/or Industrial Furnace**
  - ☐ a. Small Quantity On-site Burner Exemption
  - ☐ b. Smelting, Melting, Refining Furnace Exemption
- ☐ 6. **Underground Injection Control**

B. Universal Waste Activities

1. **Large Quantity Handler of Universal Waste [refer to your State regulations to determine what is regulated]. Indicate types of universal waste generated and/or accumulated at your site. (check all boxes that apply):**

	Generated	Accumulated
a. Batteries	☐	☐
b. Pesticides	☐	☐
Thermostats	☐	☐
d. Lamps	☐	☐
e. Other (specify) _____	☐	☐
f. Other (specify) _____	☐	☐
g. Other (specify) _____	☐	☐

☐ 2. **Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities

1. **Used Oil Transporter - Indicate Type(s) of Activity(ies)**
   - ☐ a. Transporter
   - ☐ b. Transfer Facility
2. **Used Oil Processor and/or Re-refiner - Indicate Type(s) of Activity(ies)**
   - ☐ a. Processor
   - ☐ b. Re-refiner
- ☐ 3. **Off-Specification Used Oil Burner**
- 4. **Used Oil Fuel Marketer - Indicate Type(s) of Activity(ies)**
  - ☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
  - ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

11. Description of Hazardous Wastes (see instructions on pages 16 and 17)

A. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D002	NA					
D007						
F006						
NA						

EPA ID No. C A D 0 0 8 2 7 8 2 3 6

Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed for waste codes.

723	NA					
726						
792						
121						
171						
NA						

12. Comments (see instructions on page 17)

13. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. **(see instructions on page 17)**

Signature of owner, operator, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
Victor E. Foss	VICTOR E. FOSS PRESIDENT	2/25/02
	FAX: (562) 698-2326	
	EMAIL: FOSSPL8@GTE.NET	

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: C A D 0 0 8 2 7 8 2 3 6

U.S. ENVIRONMENTAL PROTECTION AGENCY

2001 Hazardous Waste Report.

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 19 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. 1

A. Waste description (page 22) SPENT CLEANERS CHARACHERISTICALLY HAZARDOUS FOR SODIUM HYDROXIDE AND OTHER WATER BASED CLEANERS

B. EPA hazardous waste code (page 22): D 0 0 2 | N A | N A | N A | N A

C. State hazardous waste code (page 22): 1 2 1 | N A

D. Source code (page 23)	E. Form code (page 23)	F. RCRA radioactive mixed (page 23)	G. Quantity generated in 2001 (page 23)	H. UOM (page 23)
G 0 2 Management Method code for Source code G25 H N A	W 1 1 0	☐ Yes	1 2 6 0 0 .	5 Density (page 24) 4 . 7 6 ☒ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on site? (page 24)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2	
On-site Management Method code (page 24)	Quantity treated, disposed, or recycled on site in 2001 (page 25)	On-site Management Method code (page 24)	Quantity treated, disposed, or recycled on site in 2001 (page 25)
H 1 2 9	1 2 6 0 0 .	H N A	.

Sec. 3

A. Was any of this waste shipped off site in 2001 for treatment, disposal, or recycling? (pages 25 and 26)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped (page 26)	C. Off-site Management Method code Shipped to (page 26)	D. Total quantity shipped in 2001 (page 26)
Site 1		H	.
Site 2		H	.
Site 3		H	.

Comments:

ON SITE MGM: NEUTRALIZATION, PERCIPITATION IF NEEDED, SETTLING OR CLARIFICATION, DEWATERING, DISCHARGE TO POTW

Over →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

2001 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 19 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. 1

A. Waste description (page 22) SPEND ACID BATHS CHARACTERISTICALLY HAZARDOUS FOR HYDROCHLORIC ACID AND/OR SURFURIC ACID AND/OR AMMONIUM BIFLORIDE

B. EPA hazardous waste code (page 22): D002, NA, NA, NA, NA

C. State hazardous waste code (page 22): 7912, NA

D. Source code (page 23): G02

Management Method code for Source code G25: H NA

E. Form code (page 23): W103

F. RCRA radioactive mixed (page 23): ☐ Yes

G. Quantity generated in 2001 (page 23): 9000.

H. UOM (page 23): 5

Density (page 24): 5.95 ☒ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on site? (page 24)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code (page 24): H129

Quantity treated, disposed, or recycled on site in 2001 (page 25): 9000.

ON-SITE PROCESS SYSTEM 2

On-site Management Method code (page 24): H NA

Quantity treated, disposed, or recycled on site in 2001 (page 25):

Sec. 3

A. Was any of this waste shipped off site in 2001 for treatment, disposal, or recycling? (pages 25 and 26)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped (page 26)	C. Off-site Management Method code Shipped to (page 26)	D. Total quantity shipped in 2001 (page 26)
Site 1		H	
Site 2		H	
Site 3		H	

Comments:

ON SITE MGM: NEUTRALIZATION, PRECIPITATION IF NEEDED, SETTLING & CLARIFICATION, DE WATERING, DISCHARGE TO POTW

Over →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

TE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

2001 Hazardous Waste Report.

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 19 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. 1

A. Waste description (page 22) OVERFLOW FROM ELECTROPLATING CHARACTERISTICALLY HAZARDOUS FOR NICKEL. INCLUDES RESIDUE FROM NICKEL FILTERS

B. EPA hazardous waste code (page 22): NA, NA, NA, NA, NA, NA

C. State hazardous waste code (page 22): 726, NA

D. Source code (page 23): G03

Management Method code for Source code G25: HNA

E. Form code (page 23): W113

F. RCRA radioactive mixed (page 23): ☐ Yes

G. Quantity generated in 2001 (page 23): 10120.

H. UOM (page 23): 5

Density (page 24): 8.93 ☒ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on site? (page 24)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code (page 24): H129

Quantity treated, disposed, or recycled on site in 2001 (page 25): 10120.

ON-SITE PROCESS SYSTEM 2

On-site Management Method code (page 24): HNA

Quantity treated, disposed, or recycled on site in 2001 (page 25):

Sec. 3

A. Was any of this waste shipped off site in 2001 for treatment, disposal, or recycling? (pages 25 and 26)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped (page 26)	C. Off-site Management Method code Shipped to (page 26)	D. Total quantity shipped in 2001 (page 26)
Site 1		H	
Site 2		H	
Site 3		H	

Comments:
ON SITE MGM: PRECIPITATION, SETTLING OR CLARIFICATION, DEWATERING, DISCHARGE TO POTW

Over →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

2001 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 19 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. 1

A. Waste description (page 22) OVERFLOW AND RINSE WATER CHARACTERISTICALLY HAZARDOUS FOR CHROMIUM. INCLUDES RESIDUE FROM CHROME FILTER

B. EPA hazardous waste code (page 22): D007 NA NA NA NA

C. State hazardous waste code (page 22): 723 NA

D. Source code (page 23): G013

Management Method code for Source code G25: H NA

E. Form code (page 23): W113

F. RCRA radioactive mixed (page 23): ☐ Yes

G. Quantity generated in 2001 (page 23): 7800.

H. UOM (page 23): 5

Density (page 24): 8.53

☒ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on site? (page 24)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)

☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code (page 24): H129

Quantity treated, disposed, or recycled on site in 2001 (page 25): 78100.

ON-SITE PROCESS SYSTEM 2

On-site Management Method code (page 24): H NA

Quantity treated, disposed, or recycled on site in 2001 (page 25):

Sec. 3

A. Was any of this waste shipped off site in 2001 for treatment, disposal, or recycling? (pages 25 and 26)

☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped (page 26)	C. Off-site Management Method code Shipped to (page 26)	D. Total quantity shipped in 2001 (page 26)
Site 1		H	
Site 2		H	
Site 3		H	

Comments:

ON SITE MGM: CHROME REDUCTION, PRECIPITATION, SETTLING OR CLARIFICATION, DE WATERING, DISCHARGE TO POTW

Over →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

U.S. ENVIRONMENTAL PROTECTION AGENCY

2001 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 19 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. 1

A. Waste description (page 22) NICKEL CONTAMINATED RAINWATER FROM A ROOF COLLAPSE

B. EPA hazardous waste code (page 22): NA NA NA / NA NA NA

C. State hazardous waste code (page 22): 7216 NA

D. Source code (page 23): G39

Management Method code for Source code G25: H NA

E. Form code (page 23): W113

F. RCRA radioactive mixed (page 23): ☐ Yes

G. Quantity generated in 2001 (page 23): 4119.

H. UOM (page 23): 5

Density (page 24): 8.93 ☒ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on site? (page 24)

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code (page 24): H129

Quantity treated, disposed, or recycled on site in 2001 (page 25): 4119.

ON-SITE PROCESS SYSTEM 2

On-site Management Method code (page 24): H NA

Quantity treated, disposed, or recycled on site in 2001 (page 25):

Sec. 3

A. Was any of this waste shipped off site in 2001 for treatment, disposal, or recycling? (pages 25 and 26)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped (page 26)	C. Off-site Management Method code Shipped to (page 26)	D. Total quantity shipped in 2001 (page 26)
Site 1		H	
Site 2		H	
Site 3		H	

Comments: ROOF COLLAPSE DURING A MAJOR RAINSTORM ON 1-10-01. OUR SECONDARY CONTAINMENT HELD!

ON SITE MGM: PRECIPITATION, SETTLING OR CLARIFICATION, DE WATERING, DISCHARGE TO POTW

Over →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD008278236

U.S. ENVIRONMENTAL PROTECTION AGENCY

2001 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions beginning on page 19 of the instructions and forms booklet before completing this form. In addition, the page number for instructions specific to each box is provided in parentheses.

Sec. 1

A. Waste description (page 22) WASTEWATER TREATMENT SLUDGE FROM METAL FINISHING OPERATIONS WITH METALS

B. EPA hazardous waste code (page 22): F006 / NA / NA / NA

C. State hazardous waste code (page 22): 171 / NA

D. Source code (page 23): G23

Management Method code for Source code G25: HNA

E. Form code (page 23): W505

F. RCRA radioactive mixed (page 23): ☐ Yes

G. Quantity generated in 2001 (page 23): 21.2

H. UOM (page 23): 2

Density (page 24): ☐ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on site? (page 24)

☐ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)

☒ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code (page 24): HNA

Quantity treated, disposed, or recycled on site in 2001 (page 25):

ON-SITE PROCESS SYSTEM 2

On-site Management Method code (page 24): HNA

Quantity treated, disposed, or recycled on site in 2001 (page 25):

Sec. 3

A. Was any of this waste shipped off site in 2001 for treatment, disposal, or recycling? (pages 25 and 26)

☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped (page 26)	C. Off-site Management Method code Shipped to (page 26)	D. Total quantity shipped in 2001 (page 26)
Site 1	AZD980735500	H010	17.9
Site 2	NA	H	
Site 3		H	

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

FORM OI

U.S. ENVIRONMENTAL PROTECTION AGENCY

2001 Hazardous Waste Report

OFF-SITE IDENTIFICATION

Instructions: Please read the detailed instructions on the reverse side before completing this form.

Site 1

A. EPA ID No. of off-site installation or transporter: AZD 980 735 500

B. Name of off-site installation or transporter: WORLD RESOURCES

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☒ TSDR facility

D. Address of off-site installation
- Street: 8113 WEST SHERMAN STREET
- City: TOLLESON, State: AZ
- Zip: 85353-4025

Site 2

A. EPA ID No. of off-site installation or transporter: CAD 059 240 713

B. Name of off-site installation or transporter: M.C. NOTTINGHAM CO OF SO CALIFORNIA

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☒ Transporter
- ☐ TSDR facility

D. Address of off-site installation
- Street: 1415 EAST NINETH STREET
- City: POMONA State: CA
- Zip: 91766-

Site 3

A. EPA ID No. of off-site installation or transporter: NA

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR facility

D. Address of off-site installation
- Street:
- City: State:
- Zip: -

Site 4

A. EPA ID No. of off-site installation or transporter: NA

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR facility

D. Address of off-site installation
- Street:
- City: State:
- Zip: -

Site 5

A. EPA ID No. of off-site installation or transporter: NA

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR facility

D. Address of off-site installation
- Street:
- City: State:
- Zip: -

Comments:

Over →

SEND COMPLETED FORM TO: The Appropriate State or EPA Regional Office.	United States Environmental Protection Agency **RCRA SUBTITLE C SITE IDENTIFICATION FORM**	
1. Reason for Submittal (See instructions on page 9) MARK ALL BOX(ES) THAT APPLY	**Reason for Submittal:** ☐ To provide Initial Notification of Regulated Waste Activity (to obtain an EPA ID Number for hazardous waste, universal waste, or used oil activities) ☐ To provide Subsequent Notification of Regulated Waste Activity (to update site Identification information) ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application ☐ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #_____) ☒ As a component of the Hazardous Waste Report	
2. Site EPA ID Number (page 10)	**EPA ID Number** CAD008278236	
3. Site Name (page 10)	**Name:** FOSS PLATING COMPANY, INC	
4. Site Location Information (page 10)	**Street Address:** 8140 SECURA WAY **City, Town, or Village:** SANTA FE SPRINGS **State:** CA **County Name:** LOS ANGELES **Zip Code:** 90670	
5. Site Land Type (page 10)	**Site Land Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other	
6. North American Industry Classification System (NAICS) Code(s) for the Site (page 10)	**A.** 332813 **B.** NA **C.** NA **D.** NA	
7. Site Mailing Address (page 11)	**Street or P. O. Box:** SAME AS ITEM 4 **City, Town, or Village:** **State:** **Country:** **Zip Code:**	
8. Site Contact Person (page 11)	**First Name:** CAROL FOSS **MI:** **Last Name:** MC CRACKEN **Phone Number:** 562-945-3451 **Extension:** NONE **Email address:** mccracken_carol@yahoo.cc	
9. Operator and Legal Owner of the Site (pages 11 and 12)	**A. Name of Site's Operator:** VICTOR E. FOSS PRESIDENT **Date Became Operator (mm/dd/yyyy):** 09/12/1994 **Operator Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other **B. Name of Site's Legal Owner:** FOSS PLATING COMPANY, INC **Date Became Owner (mm/dd/yyyy):** 10/01/1958 **Owner Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other	

9. Legal Owner (Continued) Address		
	Street or P. O. Box: 8140 SECURA WAY	
	City, Town, or Village: SANTA FE SPRINGS	
	State: CA	
	Country: LOS ANGELES	Zip Code: 90670

10. Type of Regulated Waste Activity
Mark "Yes" or "No" for all activities; complete any additional boxes as instructed. (See instructions on pages 12 to 16.)

A. Hazardous Waste Activities
Complete all parts for 1 through 6.

Y ☒ N ☐ **1. Generator of Hazardous Waste**
If "Yes", choose only one of the following - a, b, or c.

☒ a. LQG: Greater than 1,000 kg/mo (2,200 lbs./mo.) of non-acute hazardous waste; or

☐ b. SQG: 100 to 1,000 kg/mo (220 - 2,200 lbs./mo.) of non-acute hazardous waste; or

☐ c. CESQG: Less than 100 kg/mo (220 lbs./mo.) of non-acute hazardous waste

In addition, indicate other generator activities.

Y ☐ N ☒ d. United States Importer of Hazardous Waste

Y ☐ N ☒ e. Mixed Waste (hazardous and radioactive) Generator

Y ☐ N ☒ **2. Transporter of Hazardous Waste**

Y ☐ N ☒ **3. Treater, Storer, or Disposer of Hazardous Waste (at your site)** Note: A hazardous waste permit is required for this activity.

Y ☐ N ☒ **4. Recycler of Hazardous Waste (at your site)**

Y ☐ N ☒ **5. Exempt Boiler and/or Industrial Furnace**
If "Yes", mark each that applies.
☐ a. Small Quantity On-site Burner Exemption
☐ b. Smelting, Melting, and Refining Furnace Exemption

Y ☐ N ☒ **6. Underground Injection Control**

B. Universal Waste Activities

Y ☐ N ☒ **1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste generated and/or accumulated at your site. If "Yes", mark all boxes that apply:**

	Generate	Accumulate
a. Batteries	☐	☐
b. Pesticides	☐	☐
c. Thermostats	☐	☐
d. Lamps	☐	☐
e. Other (specify) _____	☐	☐
f. Other (specify) _____	☐	☐
g. Other (specify) _____	☐	☐

Y ☐ N ☒ **2. Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities
Mark all boxes that apply.

Y ☐ N ☒ **1. Used Oil Transporter**
If "Yes", mark each that applies.
☐ a. Transporter
☐ b. Transfer Facility

Y ☐ N ☒ **2. Used Oil Processor and/or Re-refiner**
If "Yes", mark each that applies.
☐ a. Processor
☐ b. Re-refiner

Y ☐ N ☒ **3. Off-Specification Used Oil Burner**

Y ☐ N ☒ **4. Used Oil Fuel Marketer**
If "Yes", mark each that applies.
☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

11. Description of Hazardous Wastes (See instructions on page 16.)

A. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D002	NA					
D007						
F006						

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed for waste codes.

121	723	NA				
171	726	NA				
181	792	NA				

12. Comments (See instructions on page 16.)

13. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
(See instructions on page 16.)

Signature of operator, owner, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
Victor E. Foss	VICTOR E. FOSS PRESIDENT	2-27-04
	FAX: 562-698-2326	
	EMAIL: mccracken_carol@yahoo.com	

OMB#: 2050-0024 Expires 10/31/2005

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2003 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions on pages 17 to 25 of this booklet before completing this form.

Sec. 1 A. Waste description Spent cleaners characteristically hazardous for sodium hydroxide and other water based cleaners

B. EPA hazardous waste code D002 NA NA NA NA

C. State hazardous waste code 121 NA NA

D. Source code G02

Management Method code for Source code G25 H NA

E. Form code W110

F. Quantity generated in 2003 18300.0

G. UOM 5

Density 4.76

☒ lbs/gal ☐ sg

Sec. 2 Was any of this waste managed on site? (pages

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code: H 129

Quantity treated, disposed, or recycled on site in 2003: 18300.0

ON-SITE PROCESS SYSTEM 2

On-site Management Method code: H NA

Quantity treated, disposed, or recycled on site in 2003:

Sec. 3 A. Was any of this waste shipped off site in 2003 for treatment, disposal, or recycling? (pages 25 and 26)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method code Shipped to	D. Total quantity shipped in 2003
Site 1		H	
Site 2		H	
Site 3		H	

Comments: ON-SITE PROCESS SYSTEM: NEUTRALIZAION, PERCIPITATION IF NEEDED, SETTLING OR CLARIFICATION, DEWATERING, DISCUARGE TO POTW

OMB#: 2050-0024 Expires 10/31/2005

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2003 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions on pages 17 to 25 of this booklet before completing this form.

Sec. 1 A. Waste description SPENT ACID BATHS CHARACTERISTICALLY HAZARDOUS FOR HYDROCHLORIC ACID, AND/OR SULFURIC ACID AND/OR AMMONIUM BIFLORIDE

B. EPA hazardous waste code D002 NA NA NA NA

C. State hazardous waste code 792 NA NA

D. Source code G02

Management Method code for Source code G25 H NA

E. Form code W103

F. Quantity generated in 2003 136000.0

G. UOM 5

Density 5.95

☒ lbs/gal ☐ sg

Sec. 2 Was any of this waste managed on site? (pages

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code: H129

Quantity treated, disposed, or recycled on site in 2003: 136000.0

ON-SITE PROCESS SYSTEM 2

On-site Management Method code: H NA

Quantity treated, disposed, or recycled on site in 2003:

Sec. 3 A. Was any of this waste shipped off site in 2003 for treatment, disposal, or recycling? (pages 25 and 26)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method code Shipped to	D. Total quantity shipped in 2003
Site 1		H	
Site 2		H	
Site 3		H	

Comments: ON SITE PROCESS SYSTEM: NEUTRALIZATION, PRECIPITATION IF NEEDED, SETTLING AND CLARIFICATION, DE WATERING AND DISCHARGE TO POTW

OMB#: 2050-0024 Expires 10/31/2005

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2003 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions on pages 17 to 25 of this booklet before completing this form.

Sec. 1

A. Waste description: OVERFLOW FROM ELECTROPLATING CHARACTERISTICALLY HAZARDOUS FOR NICKEL.

B. EPA hazardous waste code: NA NA NA NA NA

C. State hazardous waste code: 726 NA NA

D. Source code: G03

Management Method code for Source code G25: H NA

E. Form code: W113

F. Quantity generated in 2003: 6100.0

G. UOM: 5

Density: 8.93 ☒ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on site? (pages

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2	
On-site Management Method code	Quantity treated, disposed, or recycled on site in 2003	On-site Management Method code	Quantity treated, disposed, or recycled on site in 2003
H129	6100.0	H NA	

Sec. 3

A. Was any of this waste shipped off site in 2003 for treatment, disposal, or recycling? (pages 25 and 26)
☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method code Shipped to	D. Total quantity shipped in 2003
Site 1		H	
Site 2		H	
Site 3		H	

Comments:
ON-SITE PROCESS: PRECIPITATION, SETTLING & CLARIFICATION, DEWATERING
DISCHARGE TO POTW

OMB#: 2050-0024 Expires 10/31/2005

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2003 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions on pages 17 to 25 of this booklet before completing this form.

Sec. 1

A. Waste description OVERFLOW 7 SPENT RINSES CHARACTERISTICALLY HAZARDOUS FOR CHROMIUM

B. EPA hazardous waste code D007 NA NA NA NA

C. State hazardous waste code 723 NA NA

D. Source code G03

Management Method code for Source code G25 H NA

E. Form code W113

F. Quantity generated in 2003 56400.0

G. UOM 5

Density 8.53

☒ lbs/gal ☐ sg

Sec. 2

Was any of this waste managed on site? (pages

☒ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)

☐ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code: H129

Quantity treated, disposed, or recycled on site in 2003: 56400.0

ON-SITE PROCESS SYSTEM 2

On-site Management Method code: H NA

Quantity treated, disposed, or recycled on site in 2003:

Sec. 3

A. Was any of this waste shipped off site in 2003 for treatment, disposal, or recycling? (pages 25 and 26)

☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method code Shipped to	D. Total quantity shipped in 2003
Site 1		H	
Site 2		H	
Site 3		H	

Comments:

ON-SITE PROCESS: CHROME REDUCTION, PRECIPITATION, SETTLING OR CLARIFICATION DE-WATERING, DISCHARGE TO POTW

OMB#: 2050-0024 Expires 10/31/2005

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: C A D 0 0 8 2 7 8 2 3 6

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2003 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions on pages 17 to 25 of this booklet before completing this form.

Sec. 1

A. Waste description WASTEWATER TREATMENT SLUDGE FROM METAL FINISHING OPERATIONS, WITH METALS

B. EPA hazardous waste code F 0 0 6 N A N A N A N A

C. State hazardous waste code 1 7 1 N A N A

D. Source code ~~G 2 3~~ G25

Management Method code for Source code G25 H N A

E. Form code W 5 0 5

F. Quantity generated in 2003 1 5 . 2

G. UOM 2

Density . ☐ lbs/gal ☐ sg

Sec. 2 Was any of this waste managed on site? (pages

☐ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☒ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code: H 1 2 9

Quantity treated, disposed, or recycled on site in 2003: .

ON-SITE PROCESS SYSTEM 2

On-site Management Method code: H

Quantity treated, disposed, or recycled on site in 2003: .

Sec. 3

A. Was any of this waste shipped off site in 2003 for treatment, disposal, or recycling? (pages 25 and 26)
☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method code Shipped to	D. Total quantity shipped in 2003
Site 1	A Z D 9 8 0 7 3 5 5 0 0	H 0 1 0	1 4 . 0
Site 2		H	
Site 3		H	

Comments: Sludge Settling Filter Press - Dryer

OMB#: 2050-0024 Expires 10/31/2005

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: FOSS PLATING COMPANY, INC

EPA ID NO: CAD 008 278 236

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2003 Hazardous Waste Report

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions on pages 17 to 25 of this booklet before completing this form.

Sec. 1 A. Waste description SPENT FILTER CARTRIDGES AND CANVAS BAGS HAZARDOUS FOR NICKEL AND/OR CHROME

B. EPA hazardous waste code D007 NA NA NA NA

C. State hazardous waste code 181 NA NA

D. Source code G09

Management Method code for Source code G25 H NA

E. Form code W310

F. Quantity generated in 2003 2000.

G. UOM 1

Density ☐ lbs/gal ☐ sg

Sec. 2 Was any of this waste managed on site? (pages

☐ 1 Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)
☒ 2 No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1

On-site Management Method code: H

Quantity treated, disposed, or recycled on site in 2003:

ON-SITE PROCESS SYSTEM 2

On-site Management Method code: H

Quantity treated, disposed, or recycled on site in 2003:

Sec. 3 A. Was any of this waste shipped off site in 2003 for treatment, disposal, or recycling? (pages 25 and 26)
☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method code Shipped to	D. Total quantity shipped in 2003
Site 1	CAT 080 033 681	H141	1200.0
Site 2	CAD 097 030 993	H141	800.0
Site 3		H	

Comments: Source code G09 Spent filter cartridges & canvas bags

(IMPORTANT: Type or print; read instructions before completing form)

EPA
United States Environmental Protection Agency

FORM R

Draft

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category or Generic Name
Nickel

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center, P.O.Box 1513, Lanham, MD 20703-1513 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 2004

SECTION 2. TRADE SECRET INFORMATION

2.1	Are you claiming the toxic chemical identified on page 2 trade secret? [ ] Yes (Answer question 2.2; Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)	2.2	Is this copy [ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature:	Date Signed:
Victor E. Foss President	Draft Do Not Sign	06/02/1005

SECTION 4. FACILITY IDENTIFICATION

4.1		TRI Facility ID Number	90670FSSPI8140S
Facility or Establishment Name	Foss Plating Company, Inc	Facility or Establishment Name or Mailing Address (if different from street address)	
Street	8140 Secura Way	Mailing Address	NA
City/County/State/Zip Code	Santa Fe Springs Los Angeles CA 90671	City/State/Zip Code	Country (Non-US)

4.2	This report contains information for: (Important: check a or b; check c or d if applicable)	a. [X] An entire facility	b. [ ] Part of a facility	c. [ ] A Federal facility	d. [ ] GOCO	
4.3	Technical Contact Name	Carol Foss McCracken		Telephone Number (include area code)	(562) 945-3451	
	Email Address	mccracken_carol@yahoo.com				
4.4	Public Contact Name	Victor E. Foss		Telephone Number (include area code)	(562) 945-3451	

4.5 SIC Code (s) (4 digits)	Primary					
	a. 3471	b.	c.	d.	e.	f.

4.6	Degrees	Minutes	Seconds		Degrees	Minutes	Seconds
Latitude	33	58	59	Longitude	118	03	25

4.7 Dun & Bradstreet Number(s) (9 digits)	4.8 EPA Identification Number (RCRA I.D. No.) (12 characters)	4.9 Facility NPDES Permit Number(s) (9 characters)	4.10 Underground Injection Well Code (UIC) I.D. Number(s) (12 digits)
a. 008278236	a. CAD008278236	a. NA	a. NA
b.	b.	b.	b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	NA [X]	
5.2	Parent Company's Dun & Bradstreet Number	NA [X]	

EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION

Draft

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category or Generic Name
Nickel

SECTION 1. TOXIC CHEMICAL IDENTITY

(Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 7440-02-0
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Nickel
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.) NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.
(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

NA ☐	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

SECTION 2. MIXTURE COMPONENT IDENTITY

(Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

3.1 Manufacture the toxic chemical:	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. ☐ Produce b. ☐ Import		
If produce or import:	a. ☐ As a reactant	a. ☐ As a chemical processing aid
c. ☐ For on-site use/processing	b. ☐ As a formulation component	b. ☐ As a manufacturing aid
d. ☐ For sale/distribution	c. ☒ As an article component	c. ☐ Ancillary or other use
e. ☐ As a byproduct	d. ☐ Repackaging	
f. ☐ As an impurity	e. ☐ As an impurity	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1 [04] (Enter two-digit code from instruction package.)

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA ☐	4	E	
5.2	Stack or point air emissions	NA ☒			
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1	NA				
5.3.2					
5.3.3					

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box ☐ and indicate the Part II, Section 5.3 page number in this box. ☐ (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds

EPA FORM R

Draft

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category, or Generic Name
Nickel

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		N	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite	X		
5.4.2	Underground Injection onsite	X		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	X		
5.5.1.B	Other landfills	X		
5.5.2	Land treatment/application farming	X		
5.5.3A	RCRA Subtitle C Surface Impoundments	X		
5.5.3B	Other surface Impoundments	X		
5.5.4	Other disposal	X		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year*) (enter range code** or estimate)	6.1.A.2 Basis of Estimate (enter code)
10	M

6.1.B 1	POTW Name	County Sanitation District of Los Angeles County					
POTW Address		1955 Workman Mill Mill Road					
City	Whittier	State	CA	County	Los Angeles	Zip	90601
6.1.B	POTW Name						
POTW Address							
City		State		County		Zip	

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.1 page number in this box [ ] (example: 1,2,3, etc.)

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1	Off-Site EPA Identification Number (RCRA ID No.)	AZD980735500						
Off-Site Location Name	World Resources							
Off-site Address	8113 W. Sherman Street							
City	Tolleson	State	AZ	County	Maricopa	Zip	85353	Country (Non-US)

Is location under control of reporting facility or parent company? [ ] Yes [X] No

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

Draft

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category, or Generic Name
Nickel

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 4759	1. M	1. M24
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 2	Off-Site EPA Identification Number (RCRA ID No.)	NVT330010000
Off-Site location Name	US Ecology Beatty NV	
Off-site Address	Highway 95 11 miles south of Beatty	

City	Beatty	State	NV	County	Nye	Zip	89003	Country (Non-	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 6	1. M	1. M41
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]						c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data ?
7A.1a	7A.1b	1	C01	2	C11		7A.1c	7A.1d	7A.1e
W	3 P11	4	P13	5	NA		03	99 %	Yes X No [ ]
	6	7		8					
7A.2a	7A.2b	1		2			7A.2c	7A.2d	7A.2e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.3a	7A.3b	1		2			7A.3c	7A.3d	7A.3e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.4a	7A.4b	1		2			7A.4c	7A.4d	7A.4e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.5a	7A.5b	1		2			7A.5c	7A.5d	7A.5e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [2]
and indicate the Part II, Section 6.2/7A page number in this box: [1] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds

EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

Draft

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category, or Generic Name
Nickel

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 3	Off-Site EPA Identification Number (RCRA ID No.)	CAD097030993
Off-Site location Name	US Filter	
Off-site Address	5375 S. Boyle	

City	Vernon	State	CA	County	Los Angeles	Zip	90058	Country (Non-

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 6	1. M	1. M41
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]						c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data ?
7A.6a	7A.6b	1		2			7A.6c	7A.6d	7A.6e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.7a	7A.7b	1		2			7A.7c	7A.7d	7A.7e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.8a	7A.8b	1		2			7A.8c	7A.8d	7A.8e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.9a	7A.9b	1		2			7A.9c	7A.9d	7A.9e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.10a	7A.10b	1		2			7A.10c	7A.10d	7A.10e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [2]
and indicate the Part II, Section 6.2/7A page number in this box: [2] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds

EPA FORM R
PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

Draft

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category, or Generic Name
Nickel

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recyling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]
6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	4	4	4	4
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	11	22	20	20
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	4440	4759	4800	4800
8.6	Quantity treated onsite	NA	NA	NA	NA
8.7	Quantity treated offsite	NA	NA	NA	NA
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)			NA	
8.9	Production ratio or activity index			0.85	

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	NA	a.	b.	c.
8.10.2		a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

		Yes	No
8.11	Is additional information on source reduction, recycling, or pollution control activities included with this report ? (Check one Box)	[ ]	[X]

*For Dioxin or Dioxin-like compounds, report in grams/year

(IMPORTANT: Type or print; read instructions before completing form)

File Copy - Do Not Submit to EPA

EPA
United States Environmental Protection Agency

FORM R

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category or Generic Name
Lead Compounds

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center, P.O.Box 1513, Lanham, MD 20703-1513 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 2004

SECTION 2. TRADE SECRET INFORMATION

2.1	Are you claiming the toxic chemical identified on page 2 trade secret? [ ] Yes (Answer question 2.2; Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)	2.2	Is this copy [ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature:	Date Signed:
Victor E. Foss President		06/02/1005

SECTION 4. FACILITY IDENTIFICATION

4.1		TRI Facility ID Number	90670FSSPI8140S
Facility or Establishment Name	Foss Plating Company, Inc	Facility or Establishment Name or Mailing Address (if different from street address)	
Street	8140 Secura Way	Mailing Address	NA
City/County/State/Zip Code	Santa Fe Springs Los Angeles CA 90671	City/State/Zip Code	Country (Non-US)

4.2	This report contains information for: (Important: check a or b; check c or d if applicable)	a. [X] An entire facility	b. [ ] Part of a facility	c. [ ] A Federal facility	d. [ ] GOCO	
4.3	Technical Contact Name	Carol Foss McCracken		Telephone Number (include area code)	(562) 945-3451	
	Email Address	mccracken_carol@yahoo.com				
4.4	Public Contact Name	Victor E. Foss		Telephone Number (include area code)	(562) 945-3451	
4.5	SIC Code (s) (4 digits)	Primary a. 3471	b.	c.	d.	e. f.

		Degrees	Minutes	Seconds		Degrees	Minutes	Seconds
4.6	Latitude	33	58	59	Longitude	118	03	25

4.7 Dun & Bradstreet Number(s) (9 digits)	4.8 EPA Identification Number (RCRA I.D. No.) (12 characters)	4.9 Facility NPDES Permit Number(s) (9 characters)	4.10 Underground Injection Well Code (UIC) I.D. Number(s) (12 digits)
a. 008278236	a. CAD008278236	a. NA	a. NA
b.	b.	b.	b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	NA [X]	
5.2	Parent Company's Dun & Bradstreet Number	NA [X]	

File Copy - Do Not Submit to EPA

EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category or Generic Name
Lead Compounds

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) N420
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Lead Compounds
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.) NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.
(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

NA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
☐																	

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1 Manufacture the toxic chemical:	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. [X] Produce b. [ ] Import		
If produce or Import:	a. [ ] As a reactant	a. [ ] As a chemical processing aid
c. [ ] For on-site use/processing	b. [ ] As a formulation component	b. [ ] As a manufacturing aid
d. [ ] For sale/distribution	c. [X] As an article component	c. [ ] Ancillary or other use
e. [ ] As a byproduct	d. [ ] Repackaging	
f. [X] As an impurity	e. [X] As an impurity	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	03	(Enter two-digit code from instruction package.)

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA ☐	1	E	
5.2	Stack or point air emissions	NA X			
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1	NA				
5.3.2					
5.3.3					

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box ☐
and indicate the Part II, Section 5.3 page number in this box. ☐ (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year.

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category, or Generic Name
Lead Compounds

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		N	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite	X		
5.4.2	Underground Injection onsite	X		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	X		
5.5.1.B	Other landfills	X		
5.5.2	Land treatment/application farming	X		
5.5.3A	RCRA Subtitle C Surface Impoundments	X		
5.5.3B	Other surface impoundments	X		
5.5.4	Other disposal	X		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year*) (enter range code** or estimate)	6.1.A.2 Basis of Estimate (enter code)
1	M

6.1.B 1	POTW Name	County Sanitation District of Los Angeles County					
POTW Address	1955 Workman Mill Mill Road						
City	Whittier	State	CA	County	Los Angeles	Zip	90601
6.1.B	POTW Name						
POTW Address							
City		State		County		Zip	

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.1 page number in this box [ ] (example: 1,2,3, etc.)

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1 Off-Site EPA Identification Number (RCRA ID No.)	AZD980735500							
Off-Site Location Name	World Resources							
Off-site Address	8113 W. Sherman Street							
City	Tolleson	State	AZ	County	Maricopa	Zip	85353	Country (Non-US)

Is location under control of reporting facility or parent company? [ ] Yes [X] No

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category, or Generic Name
Lead Compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 13	1. M	1. M24
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 2 Off-Site EPA Identification Number (RCRA ID No.) NVT330010000

Off-Site location Name	US Ecology Beatty NV
Off-site Address	Highway 95 11 miles south of Beatty

City	Beatty	State	NV	County	Nye	Zip	89003	Country (Non-	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 3	1. M	1. M41
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]						c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data ?
7A.1a	7A.1b	1	C01	2	C11		7A.1c	7A.1d	7A.1e
W	3 P11	4	P13	5	NA		03	99 %	Yes [X] No [ ]
	6	7		8					
7A.2a	7A.2b	1		2			7A.2c	7A.2d	7A.2e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.3a	7A.3b	1		2			7A.3c	7A.3d	7A.3e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.4a	7A.4b	1		2			7A.4c	7A.4d	7A.4e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					
7A.5a	7A.5b	1		2			7A.5c	7A.5d	7A.5e
	3	4		5				%	Yes [ ] No [ ]
	6	7		8					

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [2]
and indicate the Part II, Section 6.2/7A page number in this box: [1] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds

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PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category, or Generic Name
Lead Compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 3	Off-Site EPA Identification Number (RCRA ID No.)	CAD097030993
Off-Site location Name	US Filter	
Off-site Address	5375 S. Boyle	

City	Vernon	State	CA	County	Los Angeles	Zip	90058	Country (Non-	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 3	1. M	1. M41
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]						c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data ?
7A.6a	7A.6b	1		2			7A.6c	7A.6d	7A.6e
	3	4		5				%	Yes No
	6	7		8					
7A.7a	7A.7b	1		2			7A.7c	7A.7d	7A.7e
	3	4		5				%	Yes No
	6	7		8					
7A.8a	7A.8b	1		2			7A.8c	7A.8d	7A.8e
	3	4		5				%	Yes No
	6	7		8					
7A.9a	7A.9b	1		2			7A.9c	7A.9d	7A.9e
	3	4		5				%	Yes No
	6	7		8					
7A.10a	7A.10b	1		2			7A.10c	7A.10d	7A.10e
	3	4		5				%	Yes No
	6	7		8					

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [2]
and indicate the Part II, Section 6.2/7A page number in this box: [2] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds

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EPA FORM R
PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
90670FSSPI8140S
Toxic Chemical, Category, or Generic Name
Lead Compounds

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recyling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]
6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	1	1	1	1
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	2	7	7	7
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	65	13	15	15
8.6	Quantity treated onsite	NA	NA	NA	NA
8.7	Quantity treated offsite	NA	NA	NA	NA
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	NA			
8.9	Production ratio or activity index	0.85			

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	NA	a.	b.	c.
8.10.2		a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

		Yes	No
8.11	Is additional information on source reduction, recycling, or pollution control activities included with this report ? (Check one Box)	[ ]	[X]

*For Dioxin or Dioxin-like compounds, report in grams/year

Form Approved OMB Number:2070-0093
Approval Expires: 1/31/2008

(IMPORTANT: Type or print; read instructions before completing form)

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EPA United States Environmental Protection Agency

FORM R

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI Facility ID Number
90670FSSPL8140S
Toxic Chemical, Category or Generic Name
Lead Compounds

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center, P.O.Box 1513, Lanham, MD 20703-1513 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 2005

SECTION 2. TRADE SECRET INFORMATION

2.1	Are you claiming the toxic chemical identified on page 2 trade secret? [ ] Yes (Answer question 2.2; Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)	2.2	Is this copy [ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature: Donald F. Foss	Date Signed:
Donald F. Foss Director		06/01/2006

SECTION 4. FACILITY IDENTIFICATION

4.1		TRI Facility ID Number	90670FSSPL8140S
Facility or Establishment Name	Foss Plating Company, Inc	Facility or Establishment Name or Mailing Address (if different from street address)	Foss Plating Company, Inc.
Street	8140 Secura Way	Mailing Address	8140 Secura Way
City/County/State/Zip Code	Santa Fe Springs Los Angeles CA 90670	City/State/Zip Code	Santa Fe Springs CA 90670
		Country (Non-US	

4.2	This report contains information for: (Important: check a or b; check c or d if applicable)	a. [X] An entire facility	b. [ ] Part of a facility	c. [ ] A Federal facility	d. [ ] GOCO	
4.3	Technical Contact Name	Carol Foss McCracken		Telephone Number (include area code)	(562) 945-3451	
	Email Address	mccracken_carol@yahoo.com				
4.4	Public Contact Name	Donald F. Foss		Telephone Number (include area code)	(562) 945-3451	
4.5	SIC Code (s) (4 digits)	Primary a. 3471	b.	c.	d.	e. f.
4.7	Dun & Bradstreet Number(s) (9 digits)	a. 008278236	b.			

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	NA [X]	
5.2	Parent Company's Dun & Bradstreet Number	NA [X]	

EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION

TRI Facility ID Number
[illegible]
Toxic Chemical, Category or Generic Name
Lead Compounds

SECTION 1. TOXIC CHEMICAL IDENTITY
(Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) N420
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Lead Compounds
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.) NA

1.4 **Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.**
(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NA [ ]																	

SECTION 2. MIXTURE COMPONENT IDENTITY
(Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1 Manufacture the toxic chemical	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. X Produce b. Import If produce or import: . For on-site use/processing d. For sale/distribution e. As a byproduct f. X As an impurity	a. [ ] As a reactant b. [ ] As a formulation component c. [X] As an article component d. [ ] Repackaging e. [X] As an impurity	a. [ ] As a chemical processing aid b. [ ] As a manufacturing aid c. [ ] Ancillary or other use

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	03 (Enter two-digit code from instruction package.)	

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA [ ]	1	E	
5.2	Stack or point air emissions	NA [X]			
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1	NA				
5.3.2					
5.3.3					

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box [ ]
and indicate the Part II, Section 5.3 page number in this box. [ ] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number	90670FSSFL1140S
Toxic Chemical, Category, or Generic Name	Lead Compounds

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		N	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite to Class I Wells	X		
5.4.2	Underground Injection onsite to Class II-V Wells	X		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	X		
5.5.1.B	Other landfills	X		
5.5.2	Land treatment/application farming	X		
5.5.3A	RCRA Subtitle C Surface Impoundments	X		
5.5.3B	Other surface impoundments	X		
5.5.4	Other disposal	X		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year*) (enter range code** or estimate)	6.1.A.2 Basis of Estimate (enter code)
1	M

6.1.B 1	POTW Name	County Sanitation Districts of Los Angeles County					
POTW Address		1955 Workman Mill Road					
City	Whittier	State	CA	County	Los Angeles	Zip	90601
6.1.B	POTW Name						
POTW Address							
City		State		County		Zip	

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.1 page number in this box [ ] (example: 1,2,3, etc.)

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1	Off-Site EPA Identification Number (RCRA ID No.)				AZD980735500				
Off-Site Location Name	World Resources Company								
Off-site Address	8113 W. Sherman Street								
City	Tolleson	State	AZ	County	Maricopa	Zip	85353	Country (Non-US)	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
90070FSSRL1140S
Toxic Chemical, Category, or Generic Name
Lead Compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 1177	1. M	1. M24
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 2	Off-Site EPA Identification Number (RCRA ID No.)	NVT330010000
Off-Site location Name	US Ecology	
Off-site Address	Hwy 95 11 Miles South of Beatty	

City	Beatty	State	NV	County	Nye	Zip	89003	Country (Non-	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 6	1. M	1. M41
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]						d. Waste Treatment Efficiency Estimate [enter 2 character code]
7A.1a	7A.1b		1	H077	2	H121	7A.1d
W	3	H123	4	H101	5	NA	E3
	6		7		8		
7A.2a	7A.2b		1		2		7A.2d
	3		4		5		
	6		7		8		
7A.3a	7A.3b		1		2		7A.3d
	3		4		5		
	6		7		8		
7A.4a	7A.4b		1		2		7A.4d
	3		4		5		
	6		7		8		
7A.5a	7A.5b		1		2		7A.5d
	3		4		5		
	6		7		8		

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [2]

Indicate the Part II, Section 6.2/7A page number in this box: [1] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
90670FSSPL11409
Toxic Chemical, Category, or Generic Name
Lead Compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 3 Off-Site EPA Identification Number (RCRA ID No.)	CAD008488025
Off-Site location Name	Phibro Tech Inc.
Off-site Address	8851 Dice Road

City	Santa Fe Springs	State	CA	County	Los Angeles	Zip	90670	Country (Non-	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 1	1. M	1. M41
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]						d. Waste Treatment Efficiency Estimate [enter 2 character code]
7A.6a	7A.6b		1		2		7A.6d
	3		4		5		
	6		7		8		
7A.7a	7A.7b		1		2		7A.7d
	3		4		5		
	6		7		8		
7A.8a	7A.8b		1		2		7A.8d
	3		4		5		
	6		7		8		
7A.9a	7A.9b		1		2		7A.9d
	3		4		5		
	6		7		8		
7A.10a	7A.10b		1		2		7A.10d
	3		4		5		
	6		7		8		

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [2]

[illegible] indicate the Part II, Section 6.2/7A page number in this box: [2] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

EPA Form 9350-1 (Rev. 1/2006) - Previous editions are obsolete.

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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PART II. CHEMICAL SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number	
90670FSSPL5140[illegible]	
Toxic Chemical, Category, or Generic Name	
Lead Compounds	

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 _____ 2 _____ 3 _____

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recyling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 _____ 2 _____ 3 _____

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Undergrõund Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	1	1	0	0
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	7	8	0	0
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	13	1177	0	0
8.6	Quantity treated onsite	NA	NA	NA	NA
8.7	Quantity treated offsite	NA	NA	NA	NA
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)			NA	
8.9	Production ratio or activity index			0.63	

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	NA	a.	b.	c.
8.10.2		a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

8.11	If you wish to submit additional optional information on source reduction, recycling, or pollution control activities with this report, check "Yes."	Yes [ ]

*For Dioxin or Dioxin-like compounds, report in grams/year

(IMPORTANT: Type or print; read instructions before completing form)

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EPA
United States Environmental Protection Agency

FORM R

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI Facility ID Number
90670FSSPL8140S
Toxic Chemical, Category or Generic Name
Nickel Compounds

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center, P.O.Box 1513, Lanham, MD 20703-1513 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 2005

SECTION 2. TRADE SECRET INFORMATION

2.1	Are you claiming the toxic chemical identified on page 2 trade secret? [ ] Yes (Answer question 2.2; Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)	2.2	Is this copy [ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature: Donald F. Foss	Date Signed:
Donald F. Foss Director		06/01/2006

SECTION 4. FACILITY IDENTIFICATION

4.1		TRI Facility ID Number	90670FSSPL8140S
Facility or Establishment Name	ss Plating Company, Inc	Facility or Establishment Name or Mailing Address (if different from street address)	Foss Plating Company, Inc.
Street	8140 Secura Way	Mailing Address	8140 Secura Way
City/County/State/Zip Code	Santa Fe Springs Los Angeles CA 90670	City/State/Zip Code	Santa Fe Springs CA 90670
		Country (Non-US	

4.2	This report contains information for: (Important: check a or b; check c or d if applicable)	a. [X] An entire facility	b. [ ] Part of a facility	c. [ ] A Federal facility	d. [ ] GOCO	
4.3	Technical Contact Name	Carol Foss McCracken			Telephone Number (include area code)	(562) 945-3451
	Email Address	mccracken_carol@yahoo.com				
4.4	Public Contact Name	Donald F. Foss			Telephone Number (include area code)	(562) 945-3451
4.5	SIC Code (s) (4 digits)	Primary a. 3471	b.	c.	d.	e. f.
4.7	Dun & Bradstreet Number(s) (9 digits)	a. 008278236	b.			

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	NA [X]	
5.2	Parent Company's Dun & Bradstreet Number	NA [X]	

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EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION

TRI Facility ID Number	
90670FSSPL3140S	
Toxic Chemical, Category or Generic Name	
Nickel Compounds	

SECTION 1. TOXIC CHEMICAL IDENTITY
(Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) N495
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Nickel Compounds
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.) NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.
(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NA ☐																	

SECTION 2. MIXTURE COMPONENT IDENTITY
(Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1 Manufacture the toxic chemical	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. ☐ Produce b. ☐ Import		
If produce or import:	a. ☐ As a reactant	a. ☐ As a chemical processing aid
c. ☐ For on-site use/processing	b. ☐ As a formulation component	b. ☐ As a manufacturing aid
d. ☐ For sale/distribution	c. ☒ As an article component	c. ☐ Ancillary or other use
e. ☐ As a byproduct	d. ☐ Repackaging	
f. ☐ As an impurity	e. ☐ As an impurity	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	04 (Enter two-digit code from instruction package.)	

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA ☐	2	E	
5.2	Stack or point air emissions	NA ☒			
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1	NA				
5.3.2					
5.3.3					

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box ☐ and indicate the Part II, Section 5.3 page number in this box. ☐ (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 90670FSSPL1409 Toxic Chemical, Category, or Generic Name Nickel Compounds

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		N	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite to Class I Wells	X		
5.4.2	Underground Injection onsite to Class II-V Wells	X		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	X		
5.5.1.B	Other landfills	X		
5.5.2	Land treatment/application farming	X		
5.5.3A	RCRA Subtitle C Surface Impoundments	X		
5.5.3B	Other surface impoundments	X		
5.5.4	Other disposal	X		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year*) (enter range code** or estimate)	6.1.A.2 Basis of Estimate (enter code)
9	M

6.1.B 1	POTW Name	County Sanitation Districts of Los Angeles County					
POTW Address		1955 Workman Mill Road					
City	Whittier	State	CA	County	Los Angeles	Zip	90601
6.1.B	POTW Name						
POTW Address							
City		State		County		Zip	

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box ☐ **and indicate the Part II, Section 6.1 page number in this box** ☐ **(example: 1,2,3, etc.)**

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1	Off-Site EPA Identification Number (RCRA ID No.)	AZD980735500							
Off-Site Location Name	World Resources Company								
Off-site Address	8113 W. Sherman Street								
City	Tolleson	State	AZ	County	Maricopa	Zip	85353	Country (Non-US)	

Is location under control of reporting facility or parent company? ☐ Yes ☒ No

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 90070FSSPL81409 Toxic Chemical, Category, or Generic Name Nickel Compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 2204	1. M	1. M24
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 2 Off-Site EPA Identification Number (RCRA ID No.)	NVT330010000
Off-Site location Name	US Ecology
Off-site Address	Hwy 95 11 Miles South of Beatty

City	Beatty	State	NV	County	Nye	Zip	89003	Country (Non-	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 6	1. M	1. M41
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]						d. Waste Treatment Efficiency Estimate [enter 2 character code]
7A.1a	7A.1b		1	H077	2	H121	7A.1d
W	3	H123	4	H101	5	NA	E3
	6		7		8		
7A.2a	7A.2b		1		2		7A.2d
	3		4		5		
	6		7		8		
7A.3a	7A.3b		1		2		7A.3d
	3		4		5		
	6		7		8		
7A.4a	7A.4b		1		2		7A.4d
	3		4		5		
	6		7		8		
7A.5a	7A.5b		1		2		7A.5d
	3		4		5		
	6		7		8		

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [2]
and indicate the Part II, Section 6.2/7A page number in this box: [1] **(example: 1,2,3, etc.)**

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 90670FSSPL31409 Toxic Chemical, Category, or Generic Name Nickel Compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 3 Off-Site EPA Identification Number (RCRA ID No.)	CAD008488025
Off-Site location Name	Phibro Tech Inc.
Off-site Address	8851 Dice Road

City	Santa Fe Springs	State	CA	County	Los Angeles	Zip	90670	Country (Non-	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 1211	1. M	1. M24
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]					d. Waste Treatment Efficiency Estimate [enter 2 character code]
7A.6a	7A.6b	1		2		7A.6d
	3	4		5		
	6	7		8		
7A.7a	7A.7b	1		2		7A.7d
	3	4		5		
	6	7		8		
7A.8a	7A.8b	1		2		7A.8d
	3	4		5		
	6	7		8		
7A.9a	7A.9b	1		2		7A.9d
	3	4		5		
	6	7		8		
7A.10a	7A.10b	1		2		7A.10d
	3	4		5		
	6	7		8		

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [2]
and indicate the Part II, Section 6.2/7A page number in this box: [2] **(example: 1,2,3, etc.)**

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

File Copy - Do Not Submit to EPA

EPA FORM R PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number [illegible]
	Toxic Chemical, Category, or Generic Name Nickel Compounds

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

X Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 _____ 2 _____ 3 _____

SECTION 7C. ON-SITE RECYCLING PROCESSES

X Not Applicable (NA) - Check here if no on-site recyling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 _____ 2 _____ 3 _____

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	4	2	0	0
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	22	15	0	0
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	4759	3415	6000	0
8.6	Quantity treated onsite	NA	NA	NA	NA
8.7	Quantity treated offsite	NA	NA	NA	NA
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)			NA	
8.9	Production ratio or activity index			0.63	

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	NA	a.	b.	c.
8.10.2		a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

.11	If you wish to submit additional optional information on source reduction, recycling, or pollution control activities with this report, check "Yes."	Yes ☐

*For Dioxin or Dioxin-like compounds, report in grams/year

TRI Facility Data Profile

FACILITY INFORMATION:

TRI Facility Identification No: 90670FSSPL8140S

Facility Name and Address:

FOSS PLATING CO INC
8140 SECURA WAY
SANTA FE SPRINGS (COUNTY: LOS ANGELES) CA 90670

Mailing Address:

FOSS PLATING CO INC
8140 SECURA WAY
SANTA FE SPRINGS, CA 90670

Technical Contact Information:

Name: CAROL FOSS MCCRACKEN — Phone: 562-945-3451

Email: MCCRACKEN_CAROL@YAHOO.COM

Public Contact Information:

Name: DONALD F. FOSS — Phone: 562-945-3451

Reporting for: An entire facility

Facility Type (Federal/GOCO/Commercial): COMMERCIAL

Parent Company Name: NA

Parent Company Dun & Bradstreet No: NA

SIC Code	Facility Dun & Bradstreet No.
3471	008278236
NA	NA

INSTRUCTIONS FOR RESPONDING TO TRI FACILITY DATA PROFILE

- This Facility Data Profile (FDP) presents the information you have submitted on the Form R and/or Form A submissions that EPA has entered into the Toxics Release Inventory database. The specific chemicals covered by this FDP are shown in the Chemical Report Summary section. **For Reporting Year (RY) 2005, all revisions received by October 1, 2006, will be subject to the TRI's electronic Facility Data Release (eFDR) scheduled for late October. Therefore, if you have corrections that need to be made, please do so before October 1, 2006.** The eFDR will enable the public to access TRI data on a facility-specific, form-by-form level via EPA's Envirofacts website. Revisions received after October 1, 2006, will be entered and used for the annual Public Data Release. Revisions for the Public Data Release are due no later than 12:00 PM, October 23, 2006. Any revision received after 12:00 PM, October 23, 2006, will be entered into the TRI database but not be reflected in the Reporting Year 2005 Public Data Release. These changes will be reflected in subsequent refreshes of the Envirofacts and TRI Explorer tools.

- Please review this FDP to make sure that EPA has accurately entered your submitted information. If you identify no errors in the data presented and EPA has identified no errors, NO RESPONSE IS NEEDED. If any of the data are incorrect, or you have discovered an error in your submitted data, please revise the submission by using one of the following methods:

  1. **TRI-ME via Internet (Central Data Exchange)** - The preferred method to submitting revised TRI forms is the use of TRI Made-Easy (TRI-ME) Software and submit through the internet via the Central Data Exchange (CDX). You can download the TRI-ME software at www.epa.gov/tri. Several advantages to using CDX include: paperless filing, electronic signature process, significant reduction of data errors, and instant confirmation of your submission. If you have questions about submitting forms via CDX, please contact the CDX Hotline at epacdx@csc.com or call 888-890-1995. You can only revise data via CDX beginning with Reporting Year (RY) 2002 submissions. Please remember to submit a copy to your appropriate State agency.

  2. **TRI-ME via Diskette** - If you do not have Internet access, EPA still encourages you to use the TRI-ME software and to submit responses by diskette to one of the addresses given below. All diskette submissions must be accompanied by a signed Certification Statement. If you do not have the TRI-ME software for the Reporting Year that you are correcting, please contact EPA at tridocs@epa.gov or 202-564-9554. Please remember to submit a copy to your appropriate State agency.

  3. **Hard Copy Form** - Although EPA strongly discourages paper submissions due to the increased possibility of errors, you may make corrections by one of three hard copy methods:
     a. Facility Data Profile (FDP)
     b. Photocopy of Original
     c. Blank Form

a) **Facility Data Profile** - The FDP presents the information a facility submitted to EPA, and includes any identified errors with the submission. If you use the FDP to make corrections, you must submit the full Form R or Form A Certification Statement equivalent for each chemical. You make your revisions by marking-up the FDP in blue ink. Also, you must sign and submit the Certification Statement contained on a separate page in this document. If you do not have a copy of the facility FDP, you can retrieve it from the internet at www.triefdp.org. If you have questions about how to respond by using your FDP, please contact tri.efdp@csc.com or call 301-429-5005. Please remember to send a copy to your appropriate State agency.

b) **Photocopy of Original Submission** - You may submit a photocopy of your original submission (from your file) with the corrections made in blue ink. Please remember to re-sign and re-date the certification and enter an "X" in the space marked "Enter 'X' here if this is a revision," on page 1 of the form and send a copy to your appropriate State agency.

c) **Blank Form** - Hard copy submissions may be submitted using the form applicable for that particular reporting year or the most recent form available. You can request prior year reporting forms at tridocs@epa.gov. Please remember to certify and date the form and enter an "X" in the space marked "Enter 'X' here if this is a revision," on page 1 of the form and send a copy to your appropriate State agency.

- Please keep in mind the FDP does not serve as a means to withdraw TRI data. For information regarding TRI withdrawal procedures, please visit www.epa.gov/tri.

CERTIFICATION STATEMENT

I hereby certify that I have reviewed the attached pages from the Facility Data Profile, and to the best of my knowledge and belief, the submitted information and any corrections I have made to it are true and complete and that the amounts and values presented are accurate based on reasonable estimates using data available to the preparers of this response.

Name and official Title of Owner/Operator or Senior Management Official (Print)

Donald F. Foss — Signature

6/6/06 — Date

RESPONSE ADDRESSES	
Regular mail: TRI Data Processing Center PO Box 1513 Lanham, MD 20703-1513 Attention: TRI Revision Request	**Certified Mail, Overnight Delivery, Hand Delivery:** TRI Data Reporting Center C/O Computer Sciences Corporation Suite 300 8400 Corporate Drive Landover, MD 20785-2294 Attention:TRI Revision Request
Remember: Send a copy to your State.	

CHEMICAL REPORT SUMMARY

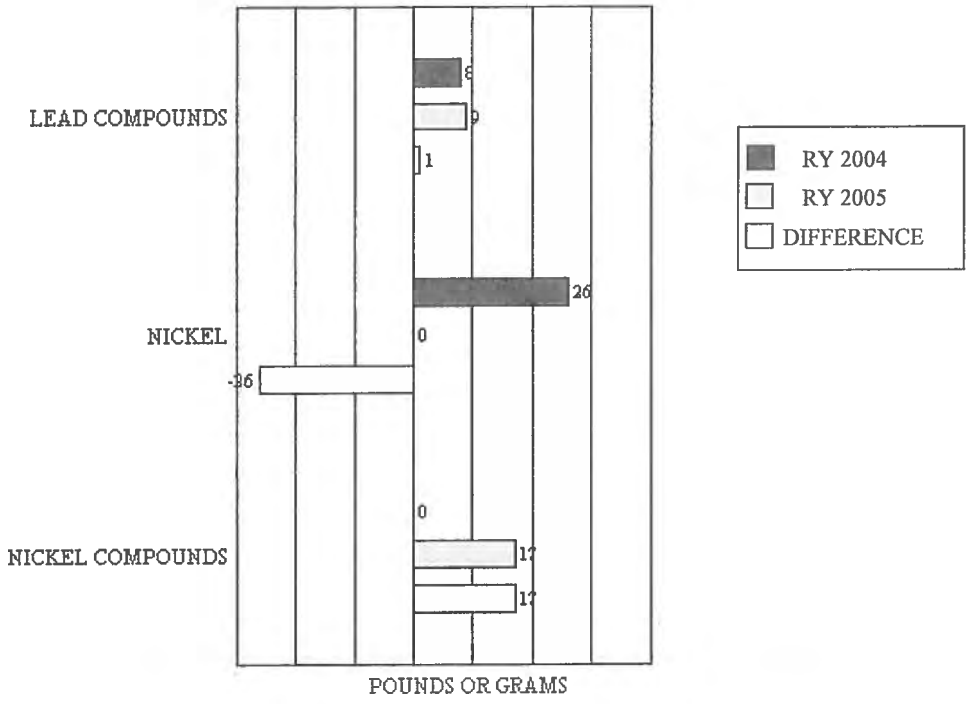
* Data for this chemical report (Form R or A) included in the Chemical Reports section of this FDP

Chemical/Generic/ Mixture Name	Original Postmark Date	Postmark Date	Received Date	NOSE Error Count	NOTE Error Count	NDC Error Count	NDC (facility level) Error Count	Data Quality Alert Count
Reporting Year : 2005								
LEAD COMPOUNDS *	05-27-2006	05-27-2006	05-30-2006	0	0	0	0	2
NICKEL COMPOUNDS *	05-27-2006	05-27-2006	05-30-2006	0	0	0	0	1

RELEASE COMPARISON REPORT

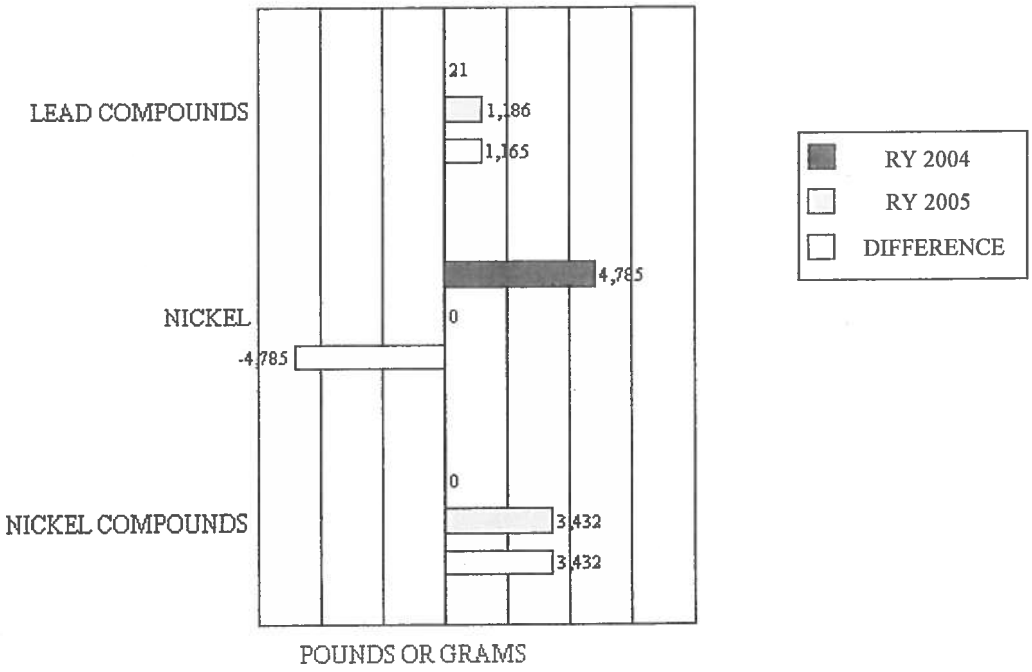
Total On-site Releases and Off-site Disposal (sum of all of section 5 on-site release plus metals to a POTW plus section 6.2 off-site transfer for disposal (this includes only waste management codes for disposal: M10, M41, M62, M63, M64, M65, M66, M67, M71, M72, M73, M79, M81, M82, M90, M91, M94 and M99).
Note: a median value is used for releases reported as range codes A = 5, B = 250 and C= 750)

Chemical	RY 2004	RY 2005	Difference
LEAD COMPOUNDS	8	9	1
NICKEL	26	No Report	-26
NICKEL COMPOUNDS	No Report	17	17



Total Production Related Waste Management (sum of 8.1 - 8.7 column B)

Chemical	RY 2004	RY 2005	Difference
LEAD COMPOUNDS	21	1,186	1,165
NICKEL	4,785	No Report	-4,785
NICKEL COMPOUNDS	No Report	3,432	3,432



Errors Identified In This Report

In this section we identify any Notice of Significant Error (NOSE) level errors and/or any Notice of Technical Error (NOTE) level errors that we have identified and/or any Non-Technical Data Changes (NDC) that we have made.

NOSEs

NOSEs identify errors that prevent your submission from being entered into our database or identify missing critical information. Invalid forms, missing pages, no certification signature, and no chemical name or CAS number are examples of significant errors.

Please note: you will receive in the mail a paper copy of your NOSE. NOSE level errors should be responded to and corrected by submitting a marked up paper copy of the FDP with the signed certification statement on page 3 of this FDP. If you used TRI-ME, you have a choice of submitting revisions through the Central Data Exchange (CDX), magnetic media or paper. However, the use of CDX will enable you to submit your revisions in the fastest, cheapest and most accurate way. If your NOSE level error is due to only a missing signature, please sign and submit the certification statement below or, if you used TRI-ME, you may submit via CDX and utilize the electronic signature feature.

NOTEs

NOTEs identify erroneous data or missing data that are required. Some examples of NOTE type errors are invalid codes or incomplete data. These errors can distort your facility's information in EPA's public data products or skew analyses. We encourage you to respond with corrections to these types of errors as soon as possible so that these changes may be incorporated into our database in time for the public data release.

If we indicate NOTE level errors in this section, or if you discover that we omitted or inaccurately altered your submitted data, please mark through the erroneous value in the Facility Information or Chemical Report section of this FDP and write the correct value next to it. If you used TRI-ME, you have a choice of submitting revisions through the Central Data Exchange (CDX), magnetic media or paper. However, the use of CDX will enable you to submit your revisions in the fastest, cheapest and most accurate way.

NDCs

NDCs notify you of changes that EPA has made to correct simple, clerical errors found in your data. An example of a NDC might be transposition of characters within a CAS number. It is not necessary to respond to a NDC unless you believe we have made an error in our change.

DQA

A Data Quality Alert (DQA) informs facilities of possible reporting issues. The DQA is offered to assist the facility in ensuring accurate reporting of releases and transfers.

Reporting Year: 2005

Error Summary Page

DCN: 13-05-203-19703-7
File Number: ES-06-00037026-8

Chemical Name: LEAD COMPOUNDS

Error Counts For This Chemical	
NOSE Errors :	0
NOTE Errors :	0
NDC Errors :	0
NDC Errors (Facility level) :	0
DQA :	2

Detail List Of Errors: **(Note: Form R/A data for this chemical follows this error summary)**

DQA #1 Please verify that the metals are in wastewater being sent to a POTW. If the metals are in wastewater that is being sent to a recovery or recycling facility, this should be entered in section 6.2 and not in section 6.1.

Part II Section 6.1 DISCHARGES TO POTWS

DQA #2 According to our preliminary analysis, your facility reported at least a 25% change in production related waste (8.1-8.7) as compared to last year. Please review your release and other waste management calculations to ensure accuracy. If you determine that your calculations are correct, please disregard this DQA.

Part II Section 8.1-8.7 MULTI SECTION ALERT

PART I:

1.0 Reporting Year: 2005

2.0 Trade Secret Information: 2.1 Trade Secret: NO 2.2 Sanitized: NO

3.0 Certification: Official Name: DONALD F. FOSS Title: DIRECTOR Date Signed: 06-01-2006

4.2 This Report Contains Information for:

a. An entire facility: YES b. Part of a facility: NO c. A Federal Facility: NO GOCO: NO

4.5 SIC Code(s): 3471 - Primary SIC

PART II:

1.0. Toxic Chemical Identity:

1.1 CAS Number or Chemical Category Code: N420

1.2 Toxic Chemical or Chemical Category Name: LEAD COMPOUNDS

1.3 Generic Chemical Name: NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category:

1: 2: 3: 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 14: 15: 16: 17:

2.0 Mixture Component Identity:

2.1 Generic Chemical Name Provided By Supplier: NA

3.0 Activities and Uses of the Toxic Chemical at the Facility:

3.1 Manufacture the toxic chemical:

A. Produce: YES

B. Import: NO

If Produce or Import:

C. For on-site use/processing: NO

D. For sale/distribution: NO

E. As a byproduct: NO

F. As an impurity: YES

3.2 Process the toxic chemical:

A. As a reactant: NO

B. As a formulation component: NO

C. As an article component: YES

D. Repackaging: NO

E. As an impurity: YES

3.3 Otherwise use the toxic chemical:

A. As a chemical processing aid: NO

B. As a manufacture aid: NO

C. Ancillary or other use: NO

4.1 Maximum Amount of the Toxic Chemical On-Site at any Time During the Year: 03 Range from 1.000 To 9.999 (lb)

5.0 Quantity of the Toxic Chemical Entering Each Environmental Medium On-site

Air Emissions	A. Total Release	B. Basis of Estimate
5.1 Fugitive Or Non-Point Air Emissions	1 Pounds	E-Published Emission Factors
5.2 Stack Or Point Air Emissions	NA	

5.3 Discharges to Receiving Streams or Water Bodies Stream or water body name:	A. Total Release	B. Basis of Estimate	C. % from Stormwater
5.3.1 NA			

	Underground Injection/Land Disposal	A. Total Release	B. Basis of Estimate
5.4.1	Underground Injection On-Site To Class I Wells	NA	
5.4.2	Underground Injection On-Site To Class II-V Wells	NA	
5.5.1A	RCRA Subtitle C Landfills	NA	
5.5.1B	Other Landfills	NA	
5.5.2	Land Treatment / Application Farming	NA	
5.5.3A	RCRA Subtitle C surface impoundments	NA	
5.5.3B	Other surface impoundments	NA	
5.5.4	Other Disposal	NA	

6.0 Transfers of the Toxic Chemical in Wastes to Off-site Locations

6.1 Discharges to Publicly Owned Treatment Works (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1 Total Transfers: 1 Pounds

6.1.A.2 Basis of Estimate: M-Data Monitoring Or Measurements

6.1.B.1 POTW NAME: COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

POTW Address: 1955 WORKMAN MILL ROAD

City: WHITTIER County: LOS ANGELES State: CA Zip: 90601

6.2 Transfers to Other Off-site Locations

6.2.1 Off-Site EPA Identification Number (RCRA ID No.) : AZD980735500

Off-Site Location Name: WORLD RESOURCES COMPANY
Off-site Address: 8113 W. SHERMAN STREET
City: TOLLESON State: AZ County: MARICOPA Province: Zip: 85353 Country:

Location under control of reporting facility or parent company: NO

	A. Total Transfers	B. Basis of Estimate	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery
1	1177 Pounds	M-Data Monitoring Or Measurements	M24-Metals Recovery
2	NA		

6.2.2 Off-Site EPA Identification Number (RCRA ID No.) : NVT330010000

Off-Site Location Name: US ECOLOGY
Off-site Address: HWY 95 11 MILES SOUTH OF BEATTY
City: BEATTY State: NV County: NYE Province: Zip: 89003 Country:

Location under control of reporting facility or parent company: NO

	A. Total Transfers	B. Basis of Estimate	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery
1	6 Pounds	M-Data Monitoring Or Measurements	M41-Solidification/Stabilization-Metals and Metal Compounds only
2	NA		

6.2.3 Off-Site EPA Identification Number (RCRA ID No.) : CAD008488025

Off-Site Location Name: PHIBRO TECH INC.
Off-site Address: 8851 DICE ROAD
City: SANTA FE SPRINGS State: CA County: LOS ANGELES Province: Zip: 90670 Country:

Location under control of reporting facility or parent company: NO

	A. Total Transfers	B. Basis of Estimate	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery
1	1 Pounds	M-Data Monitoring Or Measurements	M41-Solidification/Stabilization-Metals and Metal Compounds only
2	NA		

7A On-Site Waste Treatment Methods & Efficiency

7A.1 a. General Waste Stream W

b. Waste Treatment Method Sequence.

1 H077-Other chemical precipitation with or without pre-treatment

2 H121-Neutralization

3 H123-Settling or clarification

4 H101-Sludge treatment and/or dewatering

5 NA

d. Waste Treatment Efficiency. E3-Greater than 99% but less than or equal to 99.99%

7B On-site Energy Recovery Processes

1. NA

7C On-site Recycling Processes

1. NA

8.0 Source Reduction & Recycling Activities * *Note. All values are in Pounds	Col. A Prior Year	Col. B Current Year	Col. C Following Year	Col. D Second Following Year
8.1a Total on-site disposal to UIC Class I Wells, RCRA Subtitle C landfills and other landfills	NA	NA	NA	NA
8.1b Total other on-site disposal or other releases	1	1	0	0
8.1c Total off-site disposal to UIC Class I Wells, RCRA Subtitle C landfills and other landfills	NA	NA	NA	NA
8.1d Total other off-site disposal or other releases	7	8	0	0
8.2 Quantity Used For Energy Recovery On-Site	NA	NA	NA	NA
8.3 Quantity Used For Energy Recovery Off-Site	NA	NA	NA	NA
8.4 Quantity Recycled On-Site	NA	NA	NA	NA
8.5 Quantity Recycled Off-Site	13	1177	0	0
8.6 Quantity Treated On-Site	NA	NA	NA	NA
8.7 Quantity Treated Off-Site	NA	NA	NA	NA

8.8	Quantity Released as a Result of Remedial, Catastrophic, or One Time Events	NA
8.9	Production Ratio or Activity Index	.63

8.10 Source Reduction Activities	Method A	Method B	Method C
8.10.1 NA			

8.11 Additional Information Included NO

Trifid: 90670FSSPL8140S
Facility Name: FOSS PLATING CO INC

Facility Data Profile Date: 5/30/2006
FDP Notice No.: FP06003166550

Reporting Year: 2005
Chemical Name: NICKEL COMPOUNDS

Form R Report

DCN: 13-05-203-19704-9
File Number: ES-06-00037026-8

PART I:

1.0 Reporting Year: 2005

2.0 Trade Secret Information: 2.1 Trade Secret: NO 2.2 Sanitized: NO

3.0 Certification: Official Name: DONALD F. FOSS Title: DIRECTOR Date Signed: 06-01-2006

4.2 This Report Contains Information for:

a. An entire facility: YES b. Part of a facility: NO c. A Federal Facility: NO GOCO: NO

4.5 SIC Code(s): 3471 - Primary SIC

PART II:

1.0. Toxic Chemical Identity:

1.1 CAS Number or Chemical Category Code: N495

1.2 Toxic Chemical or Chemical Category Name: NICKEL COMPOUNDS

1.3 Generic Chemical Name: NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category:

1: 2: 3: 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 14: 15: 16: 17:

2.0 Mixture Component Identity:

2.1 Generic Chemical Name Provided By Supplier: NA

3.0 Activities and Uses of the Toxic Chemical at the Facility:

3.1 Manufacture the toxic chemical:

A. Produce: NO

B. Import: NO

If Produce or Import:

C. For on-site use/processing: NO

D. For sale/distribution: NO

E. As a byproduct: NO

F. As an impurity: NO

3.2 Process the toxic chemical:

A. As a reactant: NO

B. As a formulation component: NO

C. As an article component: YES

D. Repackaging: NO

E. As an impurity: NO

3 Otherwise use the toxic chemical:

A. As a chemical processing aid: NO

B. As a manufacture aid: NO

C. Ancillary or other use: NO

Maximum Amount of the Toxic Chemical On-Site at any Time During the Year: 04 Range from 10,000 To 99,999 (lb)

Quantity of the Toxic Chemical Entering Each Environmental Medium On-site

Air Emissions

	A. Total Release	B. Basis of Estimate
Fugitive Or Non-Point Air Emissions	2 Pounds	E-Published Emission Factors
Stack Or Point Air Emissions	NA	

5.3 Discharges to Receiving Streams or Water Bodies Stream or water body name:	A. Total Release	B. Basis of Estimate	C. % from Stormwater
5.3.1 NA			

	Underground Injection/Land Disposal	A. Total Release	B. Basis of Estimate
5.4.1	Underground Injection On-Site To Class I Wells	NA	
5.4.2	Underground Injection On-Site To Class II-V Wells	NA	
5.5.1A	RCRA Subtitle C Landfills	NA	
5.5.1B	Other Landfills	NA	
5.5.2	Land Treatment / Application Farming	NA	
5.5.3A	RCRA Subtitle C surface impoundments	NA	
5.5.3B	Other surface impoundments	NA	
5.5.4	Other Disposal	NA	

6.0 Transfers of the Toxic Chemical in Wastes to Off-site Locations

6.1 Discharges to Publicly Owned Treatment Works (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1 Total Transfers 9 Pounds

6.1.A.2 Basis of Estimate M-Data Monitoring Or Measurements

6.1.B.1 POTW NAME COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

POTW Address 1955 WORKMAN MILL ROAD

City: WHITTIER County: LOS ANGELES State: CA Zip: 90601

6.2 Transfers to Other Off-site Locations

6.2.1 Off-Site EPA Identification Number (RCRA ID No.): AZD980735500

Off-Site Location Name: WORLD RESOURCES COMPANY
Off-site Address: 8113 W. SHERMAN STREET
City: TOLLESON State: AZ County: MARICOPA Province: Zip: 85353 Country:

Location under control of reporting facility or parent company: NO

	A. Total Transfers	B. Basis of Estimate	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery
1	2204 Pounds	M-Data Monitoring Or Measurements	M24-Metals Recovery
2	NA		

6.2.2 Off-Site EPA Identification Number (RCRA ID No.): NVT330010000

Off-Site Location Name: US ECOLOGY
Off-site Address: HWY 95 11 MILES SOUTH OF BEATTY
City: BEATTY State: NV County: NYE Province: Zip: 89003 Country:

Location under control of reporting facility or parent company: NO

	A. Total Transfers	B. Basis of Estimate	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery
1	6 Pounds	M-Data Monitoring Or Measurements	M41-Solidification/Stabilization-Metals and Metal Compounds only
2	NA		

6.2.3 Off-Site EPA Identification Number (RCRA ID No.): CAD008488025

Off-Site Location Name: PHIBRO TECH INC.
Off-site Address: 8851 DICE ROAD
City: SANTA FE SPRINGS State: CA County: LOS ANGELES Province: Zip: 90670 Country:

Location under control of reporting facility or parent company: NO

	A. Total Transfers	B. Basis of Estimate	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery
1	1211 Pounds	M-Data Monitoring Or Measurements	M24-Metals Recovery
2	NA		

7A On-Site Waste Treatment Methods & Efficiency

7A.1 a. General Waste Stream W

b. Waste Treatment Method Sequence.

1 H077-Other chemical precipitation with or without pre-treatment

2 H121-Neutralization

3 H123-Settling or clarification

4 H101-Sludge treatment and/or dewatering

5 NA

d. Waste Treatment Efficiency: E3-Greater than 99% but less than or equal to 99.99%

7B On-site Energy Recovery Processes

1. NA

7C On-site Recycling Processes

1. NA

8.0 Source Reduction & Recycling Activities * *Note: All values are in Pounds	Col. A Prior Year	Col. B Current Year	Col. C Following Year	Col. D Second Following Year
8.1a Total on-site disposal to UIC Class I Wells, RCRA Subtitle C landfills and other landfills	NA	NA	NA	NA
8.1b Total other on-site disposal or other releases	4	2	0	0
8.1c Total off-site disposal to UIC Class I Wells, RCRA Subtitle C landfills and other landfills	NA	NA	NA	NA
8.1d Total other off-site disposal or other releases	22	15	0	0
8.2 Quantity Used For Energy Recovery On-Site	NA	NA	NA	NA
8.3 Quantity Used For Energy Recovery Off-Site	NA	NA	NA	NA
8.4 Quantity Recycled On-Site	NA	NA	NA	NA
8.5 Quantity Recycled Off-Site	4759	3415	6000	0
8.6 Quantity Treated On-Site	NA	NA	NA	NA
8.7 Quantity Treated Off-Site	NA	NA	NA	NA

8.8 Quantity Released as a Result of Remedial, Catastrophic or One Time Events	NA		
8.9 Production Ratio or Activity Index	.63		
8.10 Source Reduction Activities	Method A	Method B	Method C
8.10.1 NA			
8.11 Additional Information Included: NO			

CERTIFICATION STATEMENT

I hereby certify that I have reviewed the attached pages from the Facility Data Profile, and to the best of my knowledge and belief, the submitted information and any corrections I have made to it are true and complete and that the amounts and values presented are accurate based on reasonable estimates using data available to the preparers of this response.

Name and official Title of Owner/Operator or Senior Management Official (Print)

Donald F. Foss

Signature

6/2/06

Date

RESPONSE ADDRESSES	
Regular mail: TRI Data Processing Center PO Box 1513 Lanham, MD 20703-1513 Attention: TRI Revision Request	**Certified Mail, Overnight Delivery, Hand Delivery:** TRI Data Reporting Center C/O Computer Sciences Corporation Suite 300 8400 Corporate Drive Landover, MD 20785-2294 Attention:TRI Revision Request
Remember: Send a copy to your State.	