

Enforcement Case Studies

Pretreatment Workshop

July 21, 2015

Sponsored by Colorado River Basin & EPA Region 9

Chuck Durham Tetra Tech, Inc.

Ann LaDuca Tetra Tech, Inc.



Case #1 Example of Illegal Discharge



Process WW discharged via stormwater outfall.mp4





Joshua D. Balentine, Environmental Engineer 2014 KY-TN WPC, Chattanooga, TN









Discharge Line to Sewer

Wastewater Tank Discharge Line

Storm Water Discharge Lines



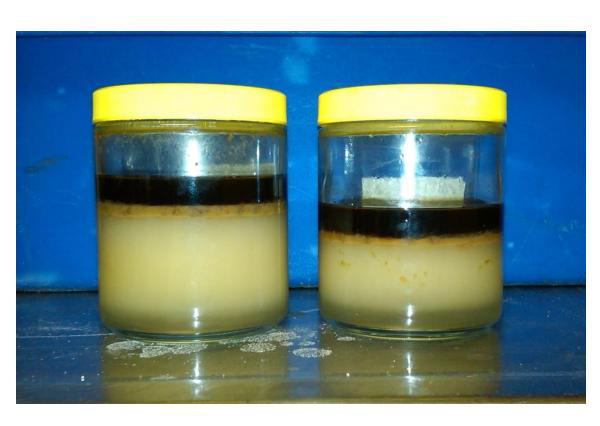
Identifying visible non-compliance -







20,000 mg/L – 33,000 mg/L Oil & Grease Samples from wastewater outfall







Outcome:

- More than \$120,000 cost incurred
 - Sewer cleaning, dragging, man hours, and materials
 - WWTP Primary Clarifier scum pit pumping

- Industry samples daily for Oil & Grease
- Control Authority randomly samples monthly for Oil & Grease

Case #2 City of San Jose, CA "On the Hunt!"

Special thanks to:
City of San Jose
&
Santa Clara County District Attorney's Office

San Jose/Santa Clara Water Pollution Control Plant



- The San Jose/Santa Clara WPCP is one of the largest advanced wastewater treatment facilities in California.
 - It treats and cleans the wastewater of over 1,500,000 people that live and work in the 300-square mile service area
 - Encompassing the cities of San Jose, Santa Clara, Milpitas, Campbell, Cupertino, Los Gatos, Saratoga, and Monte Sereno.



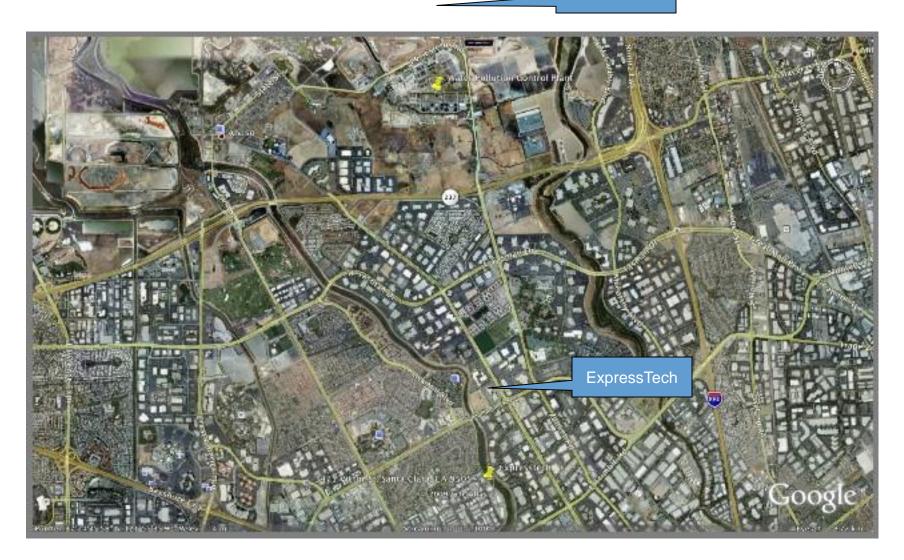
Possible Sources of Cyanide

- Businesses engaged in plating printed circuit boards
 - Use chemical and electrochemical processes to coat the item with a thin layer of metal.
 - The process involves placing the item to be coated or covered into one or more tanks with various solutions.
 - This process typically produces wastewater composed in part of the chemicals used in the metal plating including the metals.

Express Tech, Inc.

- Express Tech is engaged in plating of printed circuit boards.
- Is permitted as a zero discharge metal finisher (40 CFR 433) by the SJ/SC WPCP.
- Express Tech uses gold as part of its plating process, along with cyanide

SJ/SC WPCP

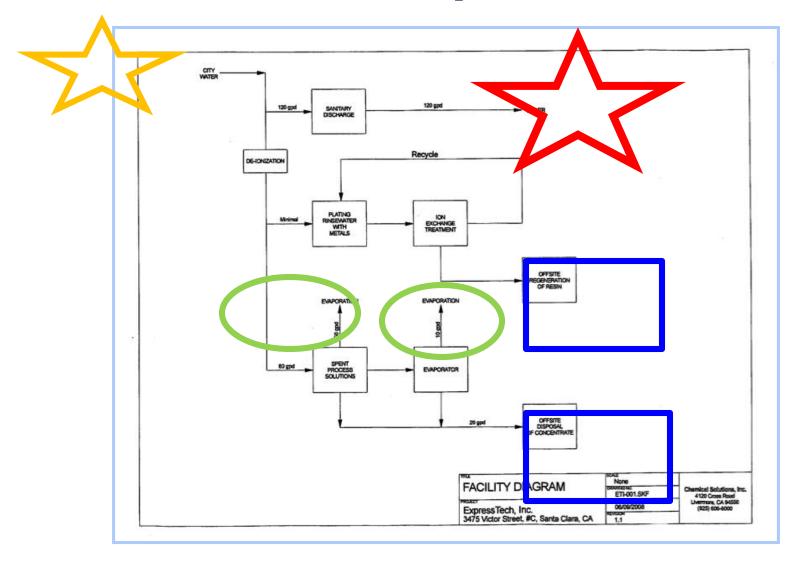


Gold Plating

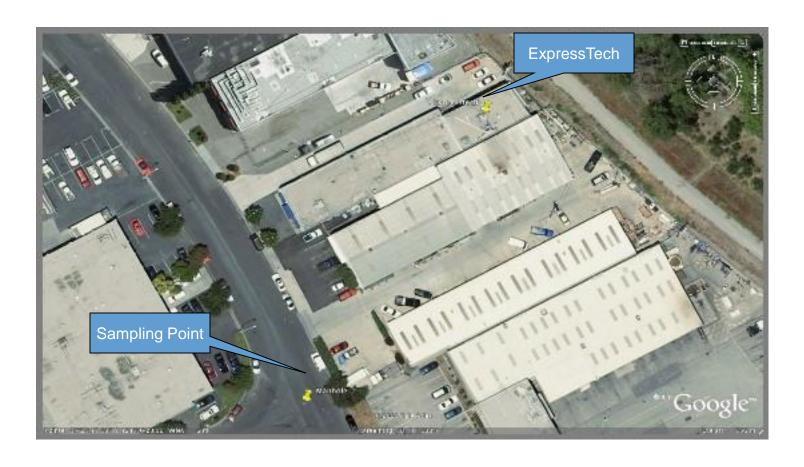
- Because of its high conductivity and corrosion gold is often used to form the electrical connect between components.
- Cyanide is also used in many gold plating baths.



Water Flow As Reported

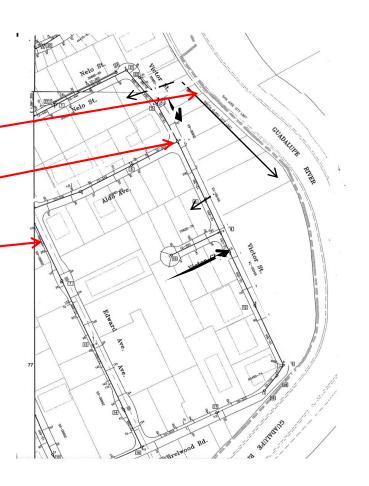


Express Tech Sampling



Sewer Map

- Express Tech
- Sampling Point
- Flow



Express Tech Sampling 2005

- Between May and August twelve 5-day composite samples collected in sanitary sewer downstream of facility
- Analysis showed elevated Cu and Ni
- Listed for further surveillance sampling

Express Tech Sampling 2007

- Between January and March composite samples collected from 4 a.m. to 7 a.m.
- Analysis showed elevated Cu, Ni and Cr also detected presence of Au
- Between September and December new sampling protocol to test STLC for haz waste
- Analysis showed hazardous waste levels

Zero Discharge

Certified!



Son Jose/Santa Clara Water Polihitien Control Plant Watershed Phelocitien Group, Source Control Secrica 170 W. San Cudea St., San Jose, CA 95113 (408) 277-5700

ZERO DISCHARGE CERTIFICATION STATEMENT POLICE
NAME OF FACILITY: Epizas Tech In
MAILING ADDRESS: <u>3475 Victor</u> St, <u>#C Santa</u> Clava, Ca
ZERO DISCHARGIE ADDRESS: 3475 Victor St, HC Santa Clara Ca
PHONE NUMBER: (408) 748- 1010
ZERO DISCHARGE CERTIFICATION STATEMENT
based on my inquiry of the person or persons directly responsible for managing compliance with industrial whate discharge requirements, I certify that to the heat of my moviledge and helief, this facility does not discharge industrial wastewater to the unitary sewer system from processes conducted a this facility.
further understand that an initial inspection, as well as any occasiony non-routine aspections, may be conducted by an Biorinomental Inspection from the San Joses/Santa Hara Water Pollution Courted Plant. During these inspections, I shall make available opies of weste manifests and any other records that support zero discharge of industrial restaurant (e.g., shadge manifest records, chemical solution replanishment records, and vater bills).
CERTIFYING OFFICIAL: OGNATURE CONTROL DATE 4/20/04
RINT NAME AND TITLE Expest Nagar, President
EXECUTIVE OFFICERS: IGNATURE ASSESSED 1/2 TO DATE 4/21/4
RINT NAME AND TITLE Enest Najar President

Zero Discharge, My Foot...



Informant calls from 2007

- July and August informant calls and notifies that Owner is dumping material that should be hauled.
 - Specifies times that dumping occuring.
 - Identifies the discharge location.
 - Reveals how the connection is hidden.
 - Warns City about security cameras on-site.

Express Tech Sampling 2008

- Between February and April composite samples collected from 4 a.m. to 7 a.m.
- Analyzed for 12 metals including copper and nickel, pH and cyanide.
- Results showed numerous haz waste violations and Au present in almost all

Express Tech Sampling 2008

- Between August and October composite samples collected from 4 a.m. to 7 a.m.
- Analyzed for Cu, Ni, 12 metals, pH and cyanide
- Results showed numerous discharge violations and Au present in almost all

Express Tech Surveillance

- E SOLITION OF THE PARTY OF THE
- Goal: Determine which potential source was operating during time of discharges
- Who: DA Investigator
- When: Between 3 a.m. and 6 a.m. on six days in August 2008
- Results: Express Tech was the only one of the potential sources operating at the time

Express Tech Search Warrant

Served OCT 8, 2008-03:20 by SCDA and SCPD

SJ Environmental
Services Dept staff
assisted with sampling
and technical advice

SUPERIOR COURT OF CALIFORNIA SANTA CLARA COUNTY JUDICIAL DISTRICT SAN JOSE FACILITY

SEARCH WARRANT

THE PEOPLE OF THE STATE OF CALIFORNIA To Any Sheriff, Policeman Or Peace Officer In The County Of Santa Clara:

Proof by affidavit having been made before me by Glenn Bytheway, that there is probable cause to believe that the property described herein may be found at the locations set forth herein and that it is lawfully seizable pursuant to Penal Code Section 1524 as indicated by "x" in that it:

- () was stolen or embezzled;
- (x) was used as the means of committing a felony;
- is possessed by a person with the intent to use same as a means of committing a public offense, or in the possession of another to whom he/she may have delivered same for the purpose of concealing or preventing its discovery;
- constitutes evidence tending to show that a felony has been committed or that a particular person has committed a felony;

more particularly described below and property used in the commission of felony violations of California Health and Safety Code Section 25189.5(b) and Water Code Section 13387(a)(4) will be located on the premises described below;

YOU ARE THEREFORE COMMANDED TO SEARCH:

THE PREMISES known as: Express Tech, Inc. (hereinafter "Express Tech"), located at 3475 Victor Lane, Unit C, Santa Clara, Santa Clara County, California,

And further described as a single story industrial building, concrete block construction, white in color with blue trim, with the numbers "3475" in the front of the building and signs with the name Express Tech Unit "C" on the front and side of the building. These signs have

SEARCH WARRANT 1

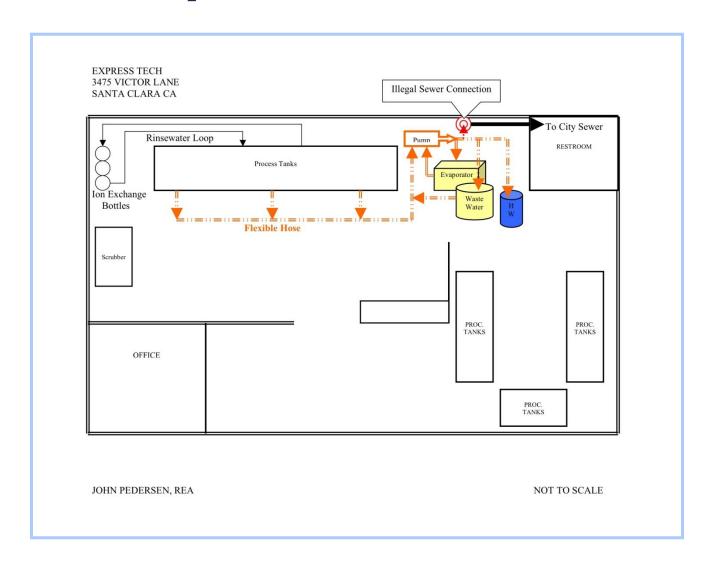
The Illegal Sewer Connection



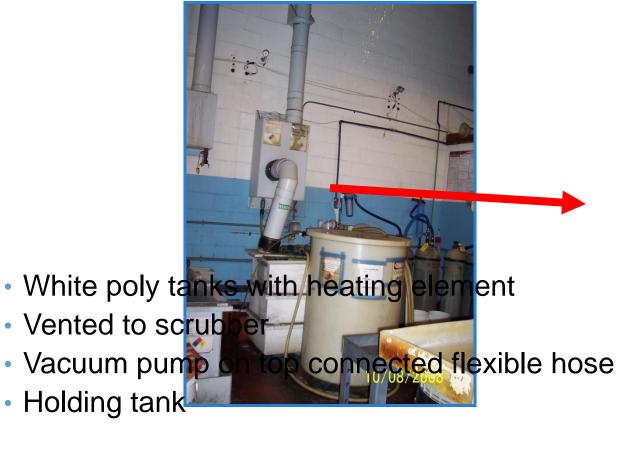
The Illegal Sewer Connection



The Facility



The Treatment System



The Illegal Sewer Connection



Sampling Illegal Connection



Bathroom



Wastewater Holding Tank



Filters In Dumpster



Vent in Break Room



Floor of Break Room Under Vent



Dye Test



Dye Test



Total Cost To SJ/SC WPCP

Lab Cost

\$38,126

Labor

\$68,536

Total

\$106,662

The On Site Investigation

- 1. Interviews of all employees on site
- 2. Sampling of all liquids
- Interview of Ernest Najar
- Document search
- 5. Seize DVR
- 6. Dye test from illegal connection to sampling point

Ernest Najar Statement

- Q. Is it possible somebody dumped into the sewer line?
- A. They'd better not. They know better.
- Q. What if they're doing it anyway?
- A. Well, if they are, they're gone.

The Follow-up Investigation

- Additional interviews
- 2. Review seized documents
- Process DVR to recover data
 - a. Computer Forensic Lab
 - b. Crime Lab
- Review security camera video
- Organize all evidence into manageable form

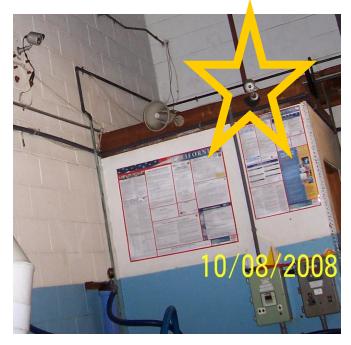
The Star Witness



Ernest Najar

"...I have a camera here, it should show everything in the

facility."



F:\TDEC Training - 2015\Final Video.wmv

The Charges

- WC 13387(a)(4), Violation of WDR
- HS 25189.5(b), Disposal of Haz Waste
- PC 374.2, Illegal discharge to sewer
- PC 115, Filing false documents

Sentence Ernest Najar



- 3 years probation
- 1 year county jail (electronic monitoring)
- •Pay fines in excess of \$36,500.00

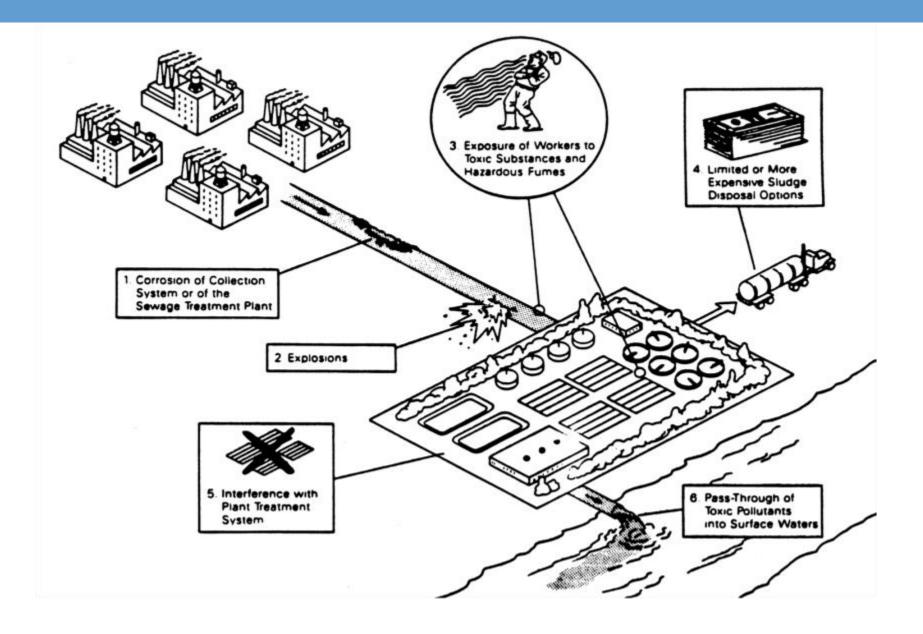
Sentence Express Tech, Inc.

Civil penalties and investigative costs in the amount of \$113,500.00 to the Water Pollution Control Plant and the Santa Clara County District Attorney's Office

CASE #3

SEWER IMPACTS

Controlling the Impact of Prohibited Discharges from non-traditional SIUs



What Happens When Sewer Line Get Clogged???

- Sewer Backups
 - Toilets
 - Sinks
 - Bathtubs
 - Basements
- Sewer Overflows





What Happens When Pumps Fail???

- Pump Damage
- Sewer Backups

Sewer Overflows



Increased Maintenance

- Pump stations and sewers are collecting:
 - Rags
 - Gloves
 - Towels
 - Wipes

	Cleaning Events		
Year	Manholes	Pump Stations	Total
2012	9	25	34
2013	12	53	65
2014	11	17	28

































Sewer Use Ordinance

- Rules and Regulations for all Sewer Users
 - Legal Authority for Humboldt Utilities
- Prohibits Discharge of Solids
 - Rags
 - Gloves
 - Towels
 - Wipes
- Interference



Sewer Use Ordinance

 Advise the Users of the impact of the contribution on the POTW

May develop Best
 Management Practices to
 implement Local Limits and the
 aforementioned requirements



Potential Outcomes

- 1. Facilities develop internal procedures that eliminate solids being discharged
- POTW can issue permits with BMPs and reporting requirements

3. POTW can revoke the facilities right to discharge to the sewer

Administrative Fees

1. Cost Recovery

2. Civil Penalties

3. Criminal Penalties

Cost Recovery Fees

- Sewer Line Maintenance
 - Cleaning
 - Flushing
 - Repair
- Pump Station Maintenance
 - Cleaning
 - Repair
 - Replacement
- Employee Overtime Expenses



Civil and Criminal Penalties

Civil Penalties

- \$10,000 per day per violation (maximum penalty)
- Actual Damages Incurred
- Attorney's Fees
- Court Costs
- Additional Expenses for Litigation

Criminal Penalties

- Class E Felony
- Incarceration
- \$25,000 Penalty (maximum penalty)

Closing

1. Issues Resolved At-Will

2. Escalation of Enforcement Action

3. TDEC Involvement

4. SNC Publication