

1. Incident Name Highland Plating Facility Fire	2. Operational Period to be covered by IAP (Date/Time) From: 7/13/2014 To: 7/16/2014	CG IAP COVER SHEET
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3. Approved by Incident Commander(s):

ORG	NAME
Federal EPA	Robert Wise (562)889-2572
CSFW	Anastasia Norris ((310)310-9917
LA Water	Howard Wong (213)725-6313
LA HazMat	Alfonso Berumen (213)200-9857
Enviroserv	Neil Frumkin (562)427-7277

INCIDENT ACTION PLAN

The items checked below are included in this Incident Action Plan:

- ☐ ICS 202-CG (Response Objectives)
- ☐ ICS 203-CG (Organization List) -- OR -- ICS 207-CG (Organization Chart)
- ☒ ICS 204-CGs (Assignment Lists)
One Copy each of any ICS 204-CG attachments:
- ☐ ICS 205-CG (Communications Plan)
- ☒ ICS 206-CG (Medical Plan)
- ☒ ICS 208-CG (Site Safety Plan) or Note SSP Location
- ☒ Map/Chart
- ☒ Weather forecast / Tides/Currents

Other Attachments

- ☒ 201 w/201 update coversheet
- ☒ MARS of Storm Drains
- ☒ EPA Region IX Notice of Response Action
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

4. Prepared by: Jason Guzman	Date/Time: 7/16/2014 0800
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1. Incident Name

Highland Plating Facility Fire

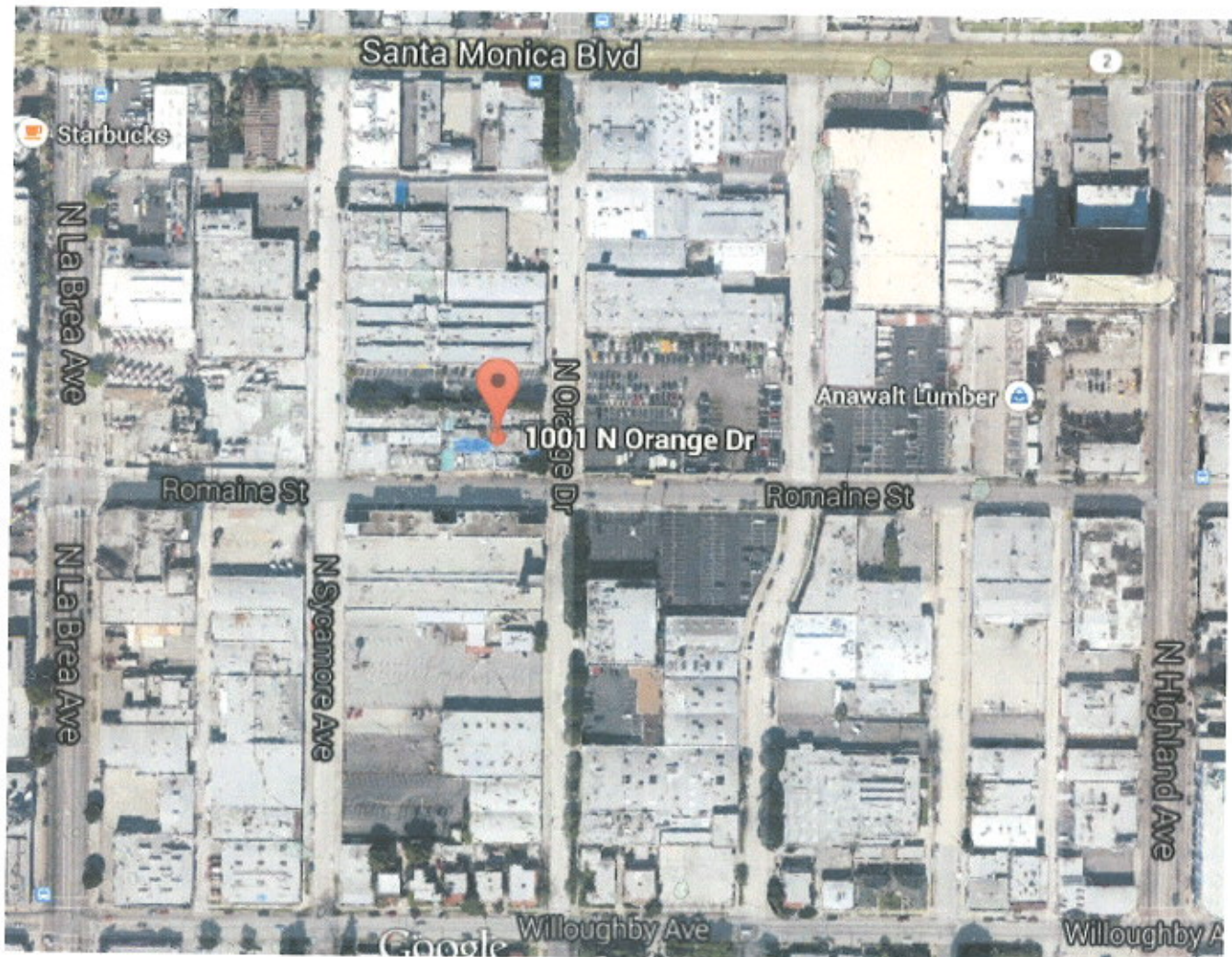
2. Prepared by: Kevin Matter

Date: 13JULY2014

Time: 1700

INCIDENT BRIEFING
ICS 201-CG**3. Map/Sketch**

(include sketch, showing the total area of operations, the incident site/area, overflight results, trajectories, impacted shorelines, or other graphics depicting situational and response status)

**4. Current Situation:** Metal plating facility caught fire at 1001 N Orange Drive, Los Angeles, CA 90038

LAFD extinguished the main fire with an estimated 1.5 million gallons of water. Small pockets of material still burning.

Runoff has gone into the storm drains

Enviroserv is to begin the above ground work/at the fire/spill site

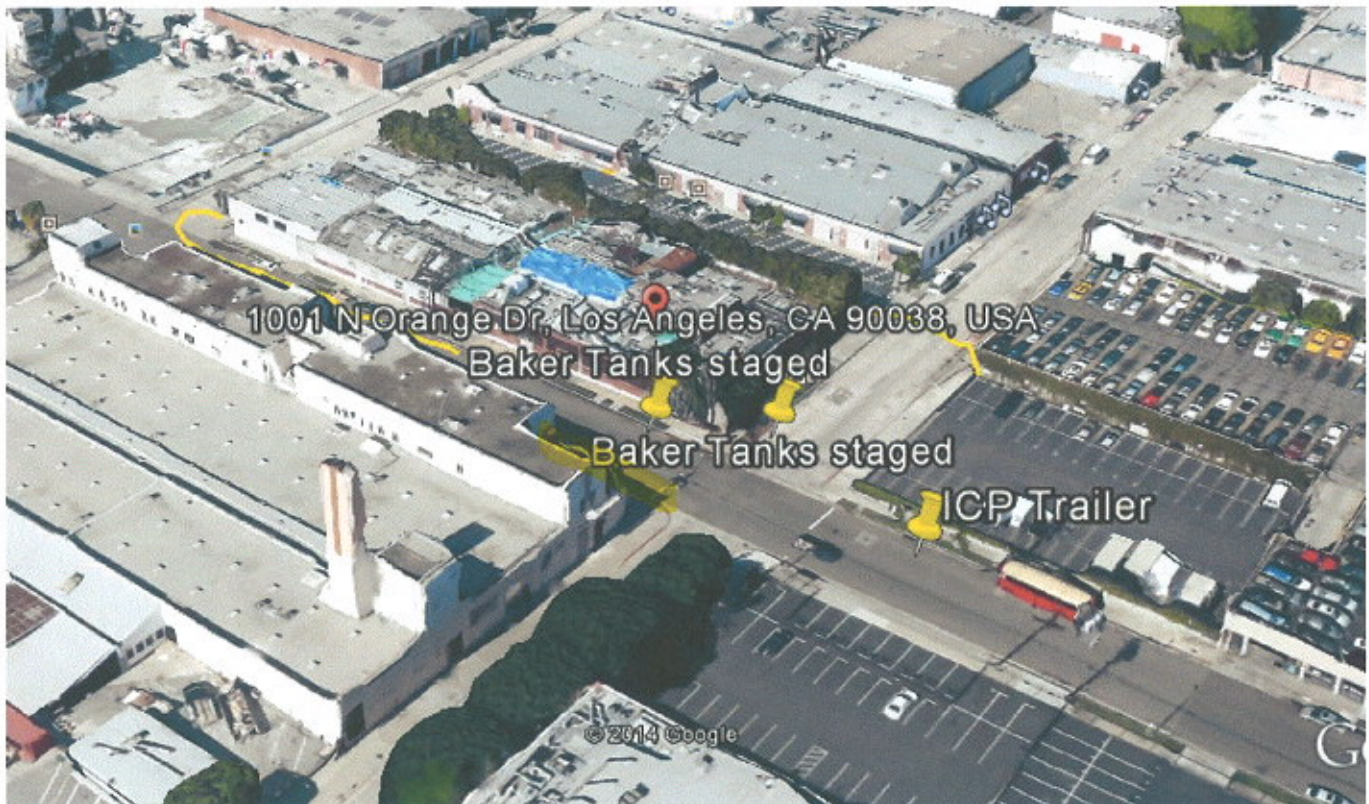
Patriot Environmental Services will begin work in the storm drains as directed

All Work to be performed will be detailed in a job-specific JSA (Job Safety Analysis).

Current PH of runoff water is between 2 & 3.

1. Incident Name Highland Plating Facility Fire	2. Prepared by: Jason Guzman	INCIDENT BRIEFING ICS 201-CG
	Date: 7/15/14 0800	

3. Map/Sketch (include sketch, showing the total area of operations, the incident site/area, overflight results, trajectories, impacted shorelines, or other graphics depicting situational and response status)



4. Current Situation: All Cyanide has been removed from the building and placed into totes staged

A reinforced Berm has been placed outside the Southside Breezeway utilizing sandbags so that the sand berm could be removed

The sand has been loaded into disposal 20 yard bins

Patriot crew on standby to clean the drains per LA city watershed

Patriot crews also standing by to pressure wash Romaine street

All small diameter Fire hose will be disposed of, and all Large diameter is unknown

Total of 13 Patriot Personnel on site

Total of 4 Enviroserve personnel on site

North side parking lot open to property owner except for 12 spots alongside building

1. Incident Name
Plating Facility Fire

2. Prepared by: Kevin Matter

Date: 13JULY2014

Time: 1700

INCIDENT BRIEFING
ICS 201-CG

6. Current Organization (fill in additional appropriate organization)

FEDERAL OSC(R)

Robert Wise, 562-889-2572

STATE OSC

Anastasia Norris- 310 310 9917 Dept. Fish & Wildlife

RPIC

Martin Zamora- 323 833 1854

LOCAL OSC

Howard Wong- 213 725 6313 LA WPD

Alfonso Berumen 213 200 9857 - LA Hazmat

— Safety Officer

Kevin Matter- 562 244 2217

— Liaison Officer

— Public Information Officer

Operations Section

Ernesto Villarreal
Patriot
562 244 2194

Planning Section

Logistics Section

Finance Section

Neil Frumpkin-
Enviroserv
562 788 0829

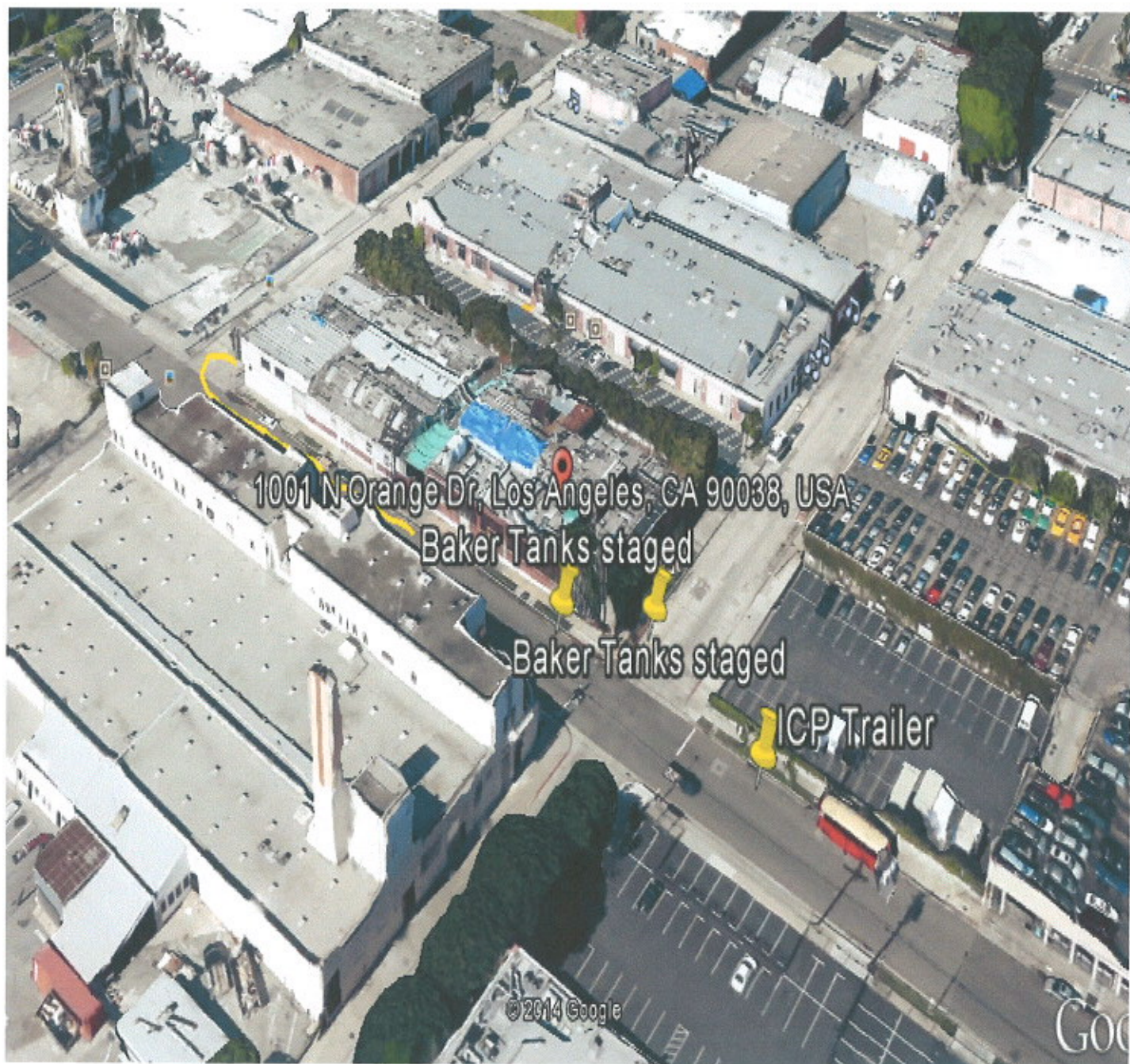
[Signature]

1. Incident Name Highland Plating Facility Fire		2. Operational Period (Date / Time) From: 7/13/2014 To: 7/16/14		MEDICAL PLAN ICS 206-CG		
3. Medical Aid Stations						
Name	Location	Contact #	Paramedics On site (Y/N)			
Patriot Environmental	ICP Trailer	805-755-3322	N			
4. Transportation						
Ambulance Service	Address	Contact #	Paramedics On board (Y/N)			
LA City Fire	Hollywood Ca Station #27	911	Y			
5. Hospitals						
Hospital Name	Address	Contact #	Travel Time		Burn Ctr?	Heli-Pad?
Cedars Sinai	127 south San Vincenete Blvd	(310)423-5400	Air Y	Ground 16min	Y	Y
6. Special Medical Emergency Procedures In the event of a Medical Emergency Notify Safety Officer and give accurate location Know your location then call 911						
7. Prepared by: (Medical Unit Leader)		Date/Time	8. Reviewed by: (Safety Officer)		Date/Time	
MEDICAL PLAN			ICS 206-CG (Rev.07/04)			

1. Incident Name Highland Plating Facility Fire		2. Operational Period (Date/Time) From: 7/14/2014, 0700 To: 7/14/2014, 1900		ASSIGNMENT LIST ATTACHMENT ICS 204a-CG							
3. Branch Recovery Branch			4. Division/Group North side / West side								
5. Strike Team/Task Force/Resource (Identifier) Taskforce 1, and 2		6. Leader		7. Assignment Location							
8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations											
<p>Task Force 1</p> <p>Work Assignment Special Instructions:</p> <p>Report to safety meeting 0700 at staging area</p> <ol style="list-style-type: none"> utilizing Loaders pickup all sand that is contaminated off of the street on the south side of the damaged building. Reset sandbags for containment purposes Assist Taskforce 2 in pumping operations of product ensuring proper PPE is worn Level B <p>Task Force 2</p> <ol style="list-style-type: none"> Report to Safety meeting 0700 at staging area set up and stage hoses , position Vacuum truck for pumping operations Pump all cyanide product into staged totes. Ensure proper PPE is worn Level B <p>Site Specific Safety Considerations:</p> <ol style="list-style-type: none"> Stay Hydrated Stay out of collapse zones Watch pinch points Watch for Heavy equipment and trucks utilize spotters when needed <p>REPORT ALL INJURIES TO SUPERVISOR</p>											
Approved Site Safety Plan Located at:											
9. Other Attachments (as needed) <table border="0"> <tr> <td><input type="checkbox"/> Map/Chart</td> <td><input type="checkbox"/> Weather Forecast/Tides/Currents</td> <td><input type="checkbox"/> _____</td> </tr> <tr> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> </tr> </table>						<input type="checkbox"/> Map/Chart	<input type="checkbox"/> Weather Forecast/Tides/Currents	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
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<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____									

1. Incident Name: Highland Plating Facility Fire		2. Operational Period (Date/Time) From: 0700 To: 1900		Assignment List ICS 204-CG					
3. Branch Recovery Branch		4. Division/Group/Staging North side of building for Recovery /west side ,south side Cleanup							
5. Operations Personnel Name Affiliation Contact # (s) Operations Section Chief: <u>Will Canto 562-244-5108</u> Branch Director: <u>Jason Guzman 805-755-3322</u> Division/Group Supervisor/STAM: <u>Brian Banuelos 310-489-8790</u>									
6. Resources Assigned "X" indicates 204a attachment with additional instructions									
Strike Team/Task Force/Resource Identifier	Leader	Contact Info. #	# Of Persons	Reporting Info/Notes/Remarks					
Task Force 1	Ernie Villareal	562-244-2184	8	Report 0700 to staging					
Task Force 2	Brian Banuelos	310-489-8790	3	Report 0700 to staging					
7. Work Assignments 1. Deploy Personnel as needed to remove all contaminated sand from the street on south side of building 2. Recon all Manways associated with the incident 3. Recover any product that escapes the containment area. 4. Stand ready to pump off product utilizing Vacuum trucks into totes 5. Report significant updates to DivSup immediately See attached ics204a for specific work assignments and instructions									
8. Special Instruction 1. Maintain situational awareness at all times 2. Watchout for hazards and report all safety concerns and injuries to site safety officer 3. Follow the site safety plan and stay hydrated									
9. Communications (radio and/or phone contact numbers needed for this assignment) <table style="width:100%; border: none;"> <tr> <td style="border: none;"><u>Name/Function</u></td> <td style="border: none;"><u>Radio: Freq./System/Channel</u></td> <td style="border: none;"><u>Phone</u></td> <td style="border: none;"><u>Cell/Pager</u></td> </tr> </table> Emergency Communications Medical _____ Evacuation _____ Other _____						<u>Name/Function</u>	<u>Radio: Freq./System/Channel</u>	<u>Phone</u>	<u>Cell/Pager</u>
<u>Name/Function</u>	<u>Radio: Freq./System/Channel</u>	<u>Phone</u>	<u>Cell/Pager</u>						
10. Prepared by: <u>Jason Guzman 7/14/2014</u> Date/Time		11. Reviewed by (PSC): _____ Date/Time		12. Reviewed by (OSC): _____ Date/Time					

1. Incident Name Highland Plating Facility Fire		2. Operational Period (Date/Time) From: 7/15/14, 0700 To: 7/15/14, 0700		ASSIGNMENT LIST ATTACHMENT ICS 204a-CG	
3. Branch Recovery/Containment			4. Division/Group southside		
5. Strike Team/Task Force/Resource (Identifier) Taskforce 1 and 2		6. Leader Neil Frumkin		7. Assignment Location 1001 Orange Drive	
8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations					
<p>Task Force 1</p> <p>Work assignment Special Instructions Report to safety Meeting 0700</p> <ol style="list-style-type: none"> Utilizing loaders pick up sand from south side booze way and reestablish containment with sandbags All small diameter fire hose pickup and place into bins for disposal All personnel are to be in proper PPE Reinforce burn on South west side of building <p>Task Force 2</p> <ol style="list-style-type: none"> Report to Safety Meeting 0700 Assist Taskforce 1 while preparing confined space equipment for cleaning operations of drains when directed by the City commence cleaning operations of drain Ensure Proper PPE is worn <p>Site Specific Safety Considerations</p> <ol style="list-style-type: none"> Stay Hydrated Watch for Heavy Equipment Stay out of Collapse Zones 					
Approved Site Safety Plan Located at:					
9. Other Attachments (as needed)					
<input checked="" type="checkbox"/> Map/Chart		<input checked="" type="checkbox"/> Weather Forecast/Tides/Currents		<input type="checkbox"/> _____	
<input type="checkbox"/> _____		<input type="checkbox"/> _____		<input type="checkbox"/> _____	



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Precipitation: 10%

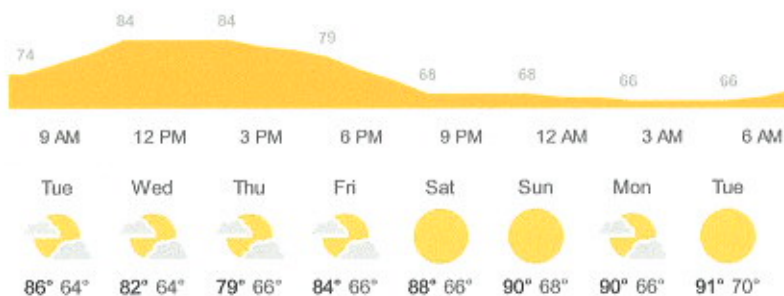
Humidity: 59%

Wind: 6 mph

Temperature

Precipitation

Wind



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1. Incident Name: Highland Plating Facility Fire		2. Operational Period (Date/Time) From: 7/15/2014, 1900 To: 7/16/14, 0600		Assignment List ICS 204-CG	
3. Branch Underground Branch		4. Division/Group/Staging South			
5. Operations Personnel Name Affiliation Contact # (s)					
Operations Section Chief: <u>Neil Frumkin</u> EnviroServ (562)427-7277					
Branch Director: <u>David Mosley</u> Patriot (861)340-7177					
Division/Group Supervisor/STAM: <u>Ernie Villareal</u> Patriot (562)244-2184					
6. Resources Assigned "X" indicates 204a attachment with additional instructions					
Strike Team/Task Force/Resource Identifier	Leader	Contact Info. #	# Of Persons	Reporting Info/Notes/Remarks	
Task Force 1	Ernie Villareal	(562)244-2184	6	Report to ICP 1800	
7. Work Assignments					
1. Deploy Personnel to the Manway on Corner of Romaine and Sycamore to commence flushing operations					
2. Deploy personnel and 1 vacuum truck to corner of fermosa and Willoughby to sandbag and capture water					
3. once Vacuum truck is full stop operation and dump water into Baker tank					
4. Once flushing is complete deploy remaining personnel to Fermosa and Willoughby and pressure wash					
5. Recover all water					
6. Report any significant updates to DivSup					
8. Special Instructions					
1. Maintain situational awareness at all times					
2. Watchout for Hazards and report all safety concerns and injuries to site safety officer					
3. Follow the site safety plan , and stay hydrated					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Name/Function		Radio: Freq./System/Channel	Phone	Cell/Pager	
Emergency Communications					
Medical _____		Evacuation _____		Other _____	
10. Prepared by: Jason Gumen		Date/Time	11. Reviewed by (PSC):		Date/Time
			12. Reviewed by (OSC):		Date/Time

1. Incident Name Highland Plating Facility Fire		2. Operational Period (Date/Time) From: 7/16/14 1000 To: 7/16/14, 1600		Assignment List ICS 204-CG	
3. Branch Containment/cleanup		4. Division/Group/Staging southwest			
5. Operations Personnel					
Name		Affiliation		Contact # (s)	
Operations Section Chief: Neil Frumkin		EnviroServ		(562)427-7277	
Branch Director: Jason Guzman		Patriot Environmental		(805)755-3322	
Division/Group Supervisor/STAM: Brian Banuelos		EnviroServ		(310)489-8790	
6. Resources Assigned "X" indicates 204a attachment with additional instructions					
Strike Team/Task Force/Resource Identifier	Leader	Contact Info. #	# Of Persons	Reporting Info/Notes/Remarks	
Task Force 1	Ernie Villareal	(562)244-2184	4	Report to ICP	
Task Force 2	Brian Banuelos	(310)489-8790	2	Report to ICP	
7. Work Assignments					
1. Deploy Task Force 1 to Southside of building to collect more product into totes then pump off into Baker tanks					
2. Deploy Task Force 2 to Southside of building to shovel up soil until deemed clear by LACOFD Health					
3. Place contaminated soil in 20 yard bins					
4. Refortify sandbag containment area in breezeway located southside of building					
5. Once all tasks are completed return to staging area and await assignment					
6. Report significant updates to DIV Sup immediately.					
8. Special Instructions					
1. Maintain situational awareness at all times.					
2. Watchout for Hazards and report all safety concerns and injuries to Site Safety Officer					
3. Follow the Site Safety Plan and stay hydrated.					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Name/Function	Radio: Freq./System/Channel	Phone	Cell/Pager		
Emergency Communications					
Medical	Evacuation	Other			
10. Prepared by:	Date/Time	11. Reviewed by (PSC):	Date/Time	12. Reviewed by (OSC):	Date/Time

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Fog



82°F | °C

Precipitation: 10%

Humidity: 69%

Wind: 3 mph

Temperature

Precipitation

Wind



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SITE HEALTH AND SAFETY PLAN

HAZARDOUS MATERIALS RESPONSE OPERATIONS

INCIDENT NAME: Highland Plating Facility Fire

LOCATION: 1001 North Orange Drive, Los Angeles, CA 90038

SENIOR PROJECT MANAGER: Ernesto Villarreal

CONTACT INFORMATION: 562 244 2194

HEALTH & SAFETY OFFICER: Kevin Matter

CONTACT INFORMATION: 562 244 2217

DATE: 13JULY2014

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1.0 INTRODUCTION

This Site Health and Safety Plan (SHSP) has been prepared for the prevention of accidents, exposures, and illnesses for personnel performing work activities specific to this plan. In addition to all other regulatory requirements, the work shall be performed in compliance with:

- General Industry Safety Orders (Title 8 CCR Section 5192) Hazardous Waste Operations and Emergency Response
- Hazard Communication (Employee Right-To-Know) (29 CFR 1910.120), (Title 8 CCR Section 5194)

These regulations were designed to meet the general industry requirements, which were issued under the Occupational Safety and Health Safety Act (OSHA) of 1970. In addition, all personnel will conform to the Construction Industry Standards. Safety policies/procedures and employee safety rules (in addition to the above referenced documents) shall be implemented at all times.

1.1 Purpose

This SHSP has the following designated purposes:

- provide a safe working environment
- conduct operations within the guidelines of safety requirements
- comply with OSHA standards for employee health and safety
- maintain high standards of performance concerning environmental protection and industrial health
- ensure workers are aware of the hazards associated with the site activities and the related protective measures
- ensure compliance with the SHSP and amendment of the SHSP as conditions change on the site

2.0 SCOPE OF WORK

This SHSP covers operations to be performed by all Patriot contractor/subcontractor personnel during all activities relating to the response and/or site remediation on the Incident.

This SHSP has been prepared to ensure that site safety practices are utilized throughout all operations including but not limited to; site security and regulatory oversight.

2.1 Site Map located in Appendix A

2.2 Description of Onsite Activities

- Enviroserve activities include collection of contaminated runoff aboveground.
- Enviroserve employees will be dressed in yellow Tyvek and rubber boots, with chemical protective gloves and equipment. Safety Glasses, Hard Hats are required.
- Patriot Environmental will be handling the underground/storm drain work.
- Patriot employees will be following all confined space regulations.

- All Patriot activities and health hazards to be addressed by job-specific JSA

3.0 SITE ORGANIZATION

All personnel working during the remediation are responsible and accountable to adhere to standard safety policies and compliance with this SHSP. Key project personnel and their responsibilities are listed below.

3.1 Patriot Personnel

Patriot personnel will be using the Incident Command System (ICS) and forms, when applicable.

3.2 Patriot Site Safety Officer

Patriot Site Safety Officer: Kevin Matter Ph: 562 244 2217

The Safety Officer and Assistant Site Safety Officers are to develop and recommend measures for assuring personnel safety, and to assess and/or anticipate hazardous and unsafe situations, ensure site compliance with Federal and CAL OSHA regulations, and the SHSP including, but not limited to, hazard analysis, air monitoring, PPE, decontamination, site control and standard operating procedures (SOPs).

3.3 Site Personnel

All personnel must work in a safe and healthful manner, so as not to compromise his/her own health and safety, or the health and safety of others. In the event of an emergency evacuate the affected area immediately, notify appropriate individuals. Conform to all aspects of this incident/site specific SHSP. Report any and all accidents, injuries, exposures, and/or near misses to the Site Safety Officer and/or their supervisor. Attend and participate in Tailgate Safety Meetings prior to job start. Observe "Buddy System" during work activities while maintaining Situational Awareness at all times.

3.4 Site Visitors

Authorized site visitors must check in with the Patriot Site Supervisor and/or Health and Safety Officer to sign specific location job safety analysis.

3.5 Field and Emergency Communications

All Patriot personnel utilize cell phones when possible. Communications will be noted on ICS Form 205 and 205A or as specified in the ICS Form 204 Assignment List. If intrinsically safe communications are required, Patriot utilizes 161-174 MHz UHF radios. For vessel communications, Patriot utilizes Marine Band VHF.

4.0 HAZARD IDENTIFICATION / ANALYSIS

The following describes potential hazards associated with the tasks that may be performed. A separate site specific Job Safety Analysis will be completed.

4.1 Chemical Hazards – see attached MSDS

4.2 Physical Hazards

Personnel may be exposed to physical hazards such as heat stress, vehicular traffic, physical strain, as well as slips, trips, or falls or task specific hazards. Each Hazard and potential hazard shall be indicated on the Job Safety Analysis for task specific operations and updated as conditions change.

5.0 SITE CONTROL PROGRAM

5.1 Security

Security will be in effect as deemed necessary to protect personnel and assets.

5.2 Site Preparation

Construct roadways to provide ease of access and a sound roadbed for heavy equipment and vehicles:

- arrange traffic flow patterns to ensure safe and efficient operations
- eliminate physical hazards from the work area including:
 - ignition sources in flammable hazard areas
 - exposed or ungrounded electrical wiring, and low overhead wiring that may entangle equipment
- sharp or protruding edges, such as glass, nails, and torn metal, which can puncture protective clothing and equipment and inflict puncture wounds
- holes, loose steps or flooring, protruding objects, slippery surfaces, or unsecured railings, which can cause falls, slips, and trips
- unsecured objects, such as bricks and gas cylinders, near the edges of elevated surfaces, such as catwalks, roof tops, and scaffolding, which may dislodge and fall on workers
- remove debris and weeds that obstruct visibility
- install skid-resistant strips and other anti-skid devices on slippery surfaces
- construct operation pads for mobile facilities and temporary structures
- construct loading docks, processing and staging areas, and decontamination pads
- provide adequate illumination for work activities (equip temporary lights with guards to prevent accidental contact)
- install all wiring and electrical equipment in accordance with the National Electric Code

5.3 Work Zones

To reduce the accidental spread of hazardous substances by workers from the contaminated area to the clean area, zones will be delineated on the site where different types of operations will occur, and the flow of personnel among the zones will be controlled and pre-established. The work zones will help ensure that:

- personnel are properly protected against the hazards present where they are working
- work activities and contamination are confined to the appropriate areas
- personnel can be located and evacuated in an emergency

Site Map: A Site Map drawing is presented in **Appendix A**.

1. Hot Zone (Exclusion Zone)

Is the location at a hazmat incident where the actual hazardous material and highest levels of contamination exist, also called the exclusionary zone.

2. Warm Zone (Contamination Reduction Zone)

The area where personnel and equipment decontamination and hot zone support take place, it includes control points for the access corridor and thus assists in reducing the spread of contamination.

3. Cold Zone (Support Zone)

A safe area for those agencies and personnel involved in the operations; the incident commander (IC), command post, EMS providers, and other support functions necessary to control the incident will be located in the cold zone.

6.0 PERSONNEL PROTECTIVE EQUIPMENT AND SITE SAFETY

This section details the type of protection that will be provided to workers within all work zones. Job descriptions and locations within the site will determine the specific type of protective clothing and equipment that may be utilized by personnel working in the area. Depending on the presence of hazards, workers entering the work zones will be required to wear approved equipment for protection against respiratory and/or dermal exposure. The level of protection will be based overall on the type and concentration of the chemical substances in the ambient atmosphere and its toxicity and the potential for exposure to substances in air, or other direct contact with material due to work being done.

6.1 General Site Safety Requirements

- Eating, drinking, use of gum or tobacco products or the applying of cosmetics shall only apply in designated areas in the Support Zone (SZ).
- Personnel shall wash their hands, face, and any exposed skin when completing decontamination, before eating, drinking or using tobacco products, and at the end of each shift.
- Personnel shall participate in tailgate safety meetings.
- Personnel shall continually observe their work location and be alert to changes in the environment that may affect safety.
- Personnel shall plan and prioritize their tasks prior to donning PPE and entering a designated Exclusionary Zone (EZ).

- Personnel shall only enter regulated work areas when instructed by supervisors, and shall only enter through designated control points.
- Personnel shall act to avoid direct contact with contamination by not purposefully walking; touching, or contacting any obviously contaminated surfaces.
- Personnel shall report accident, near miss, or unusual situations to the supervisor immediately.
- Personnel shall use the PPE provided.
- Personnel shall avoid hand-to-mouth or hand-to-face activities.
- All safety equipment shall be inspected prior to use.
- All vehicles and equipment shall be inspected prior to use.
- The buddy system should be used for all personnel entering the EZ.
- Personnel shall work as a team.
- Personnel shall work within their own physical and mental limits.
- Personnel shall take adequate rest breaks and replace body fluids.
- Personnel shall not deviate from the SHSP and the instruction of the supervisor.

6.2 Respiratory Protection Program

Accordance with OSHA standard [29 CFR 1910.134] the following guidelines shall be instituted at this site.

- Appropriate respiratory equipment will be issued and/or available to all workers.
- All users of respiratory equipment are fit-tested and trained.
- All users are familiar with cleaning and disinfecting respiratory equipment.

6.3 Levels of Protection

PPE is required for project work. Hard hats and protective footwear are required for all types of work. Eyewear and hearing protection, as well as gloves, shall be worn when required. Employees shall have prior training on the proper use of PPE.

The purpose of PPE and clothing is to protect individuals from chemical and physical hazards. Levels of protection will be selected or deemed necessary by the UIC or the Supervisor. Below are the different levels of protection.

OSHA Level A: To be selected when the greatest level of skin, respiratory, and eye protection is required

- Positive pressure, full face-piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA, approved by the National Institute for Occupational Safety and Health (NIOSH). Safety glasses
- Totally-encapsulating chemical-protective suit
- Coveralls
- Long underwear
- Gloves, outer, chemical resistant
- Boots, chemical resistant, steel toe and shank

- Disposable protective suit, gloves and boots (depending on suit construction, may be worn over totally-encapsulating suit)

OSHA Level B: This is selected when the highest level of respiratory protection is necessary but a lesser level of skin protection is needed. The following is required:

- Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA
- Hooded chemical-resistant clothing (coveralls and long-sleeved jacket; coveralls; one or two-piece chemical-splash suit; disposable chemical-resistant overalls).
- Coveralls.(as needed)
- Gloves, outer, chemical-resistant.
- Gloves, inner, chemical-resistant.
- Boots, outer, chemical-resistant steel toe and shank.
- Boot-covers, outer, chemical-resistant (disposable). (as needed)
- Hard hat. (as needed)
- Face shield. (as needed)

OSHA Level C: Selected when the type of airborne substance is known and the criteria for the use of air purifying respirators is met. The following is required:

- Full-face or half-face air purifying respirator with chemical compatible filters
- Suitable splash protection
- Neoprene inner and outer gloves
- Hard hat
- Steel-toed boots
- Safety glasses
- Taped wrist and ankle joints
- Chemical goggles (where applicable)
- Hearing protection (where applicable)

OSHA Level D: A work uniform affording minimal protection: used for nuisance contamination only. The following is required:

- Hard hat
- Steel-toed boots
- Safety glasses
- Coveralls
- Gloves (where applicable)
- Taped wrist and ankle joints (where applicable)
- Chemical goggles (where applicable)
- Hearing protection (where applicable)

6.4 PPE Inspection and Care Program

Regular inspection of PPE, together with respiratory protective equipment, shall be performed inclusive of the following: Inspecting all equipment prior to use; discarding all disposable items daily; and cleaning and inspecting all reusable PPE daily. PPE offers a high degree of protection, yet the equipment must be maintained and inspected on a

regular basis. Gloves and full body coveralls will be inspected and replaced promptly if a tear develops.

6.5 Equipment Selection

The Supervisor will be in charge of equipment selection. The level of protection may be upgraded or downgraded by the Supervisor or UIC, as the conditions change at the site. PPE will be selected according to the site hazards.

6.5.1 Upgrade PPE

Reasons to upgrade include any changes that occur in a work task that will increase contact or potential contact with hazardous materials or when an action level is detected

6.5.2 Downgrade PPE

Reasons to downgrade includes any new information that indicates the situation is less hazardous, any changes in site conditions that decrease the hazards, or monitoring or lab analysis data support a decision to downgrade.

7.0 **DECONTAMINATION PROGRAM**

7.1 General

A decontamination area will be set up at appropriate areas for equipment and personnel decontamination prior to entry to the exclusion zone.

- All personnel prior to their entering the exclusion zones will review the decontamination procedures.
- Decontamination will consist of soap and water. When exiting the EZ disposable PPE will be removed and placed in appropriate bins. Water will be available to wash face and hands.
- Respirators, reusable protective clothing, and other personal articles, which have become contaminated because of use, must be decontaminated and sanitized before re-use. The manufacturers' instructions shall always be followed.
- Persons individually assigned a respirator will be responsible for decontaminating their respirators. Wipes will be available for use.
- Personnel not assigned a personal respirator will ensure the respirator is thoroughly sanitized and cleaned prior to next use.
- If respirators become grossly contaminated, they may have to be discarded. The SOFR shall make this decision on a case-by-case basis.

7.2 Personal Hygiene and routine Decontamination:

- All Employees' shall be kept in good personal hygiene prior to beginning any work. All loose jewelry, excessive or extreme hair styles, earrings, or clothing that could potentially pose a safety hazard shall not be permitted. As industry professionals, a clean-shaven and professional appearance must be kept at all times.
- Wash stations shall be made available at all points of ingress and egress of the warm zone. Showers will be available as necessary.

- All personnel will avoid contact with potent contaminated substances. Avoid walking through puddles or mud, kneeling on the ground, or leaning against contaminated surfaces.
- Contaminated protective equipment will not be removed from a regulated area until it has been decontaminated and properly packaged and labeled.
- Removal of materials from protective clothing and equipment by blowing, striking, or any other means, which may disperse materials into the air, is prohibited.

7.3 Equipment Decontamination

- All contaminated equipment will be decontaminated prior to leaving the site.
- All contamination generated from decontamination operations, shall be contained and disposed per the Waste Management Plan for this incident.
- Appropriate decontamination procedures will be adjusted to take into account the product and type of material that may be encountered in the exclusion zone.

8.0 **EMERGENCY RESPONSE PROCEDURES**

8.1 General

All personnel will follow ICS Form 206 and site specific JSA

8.2 Evacuation Routes

9.2.1 Requirements - All Personnel

In case of an emergency or hazardous situation, the person that observes this condition shall immediately notify the Supervisor. The Supervisor will sound an air-horn alarm (1 long blast).

Upon receiving direction from the UIC to evacuate, the supervisor will sound an alarm, stop work immediately and direct all employees and visitors to proceed promptly to the designated evacuation assembly area.

- If the emergency is related to airborne particulates, evacuation routes shall provide access for personnel to be traveling in an crosswind then upwind direction
- 911 Notification will be made if necessary.
- Upon hearing an alarm, all non-emergency communications will cease and the person sounding the alarm will immediately give the assistant safety officer present all pertinent information;
- Power equipment will be shut down;
- Any injured personnel will be transported to the support zone, as long as transportation does not jeopardize the employee's health further;
- Upon arrival at the safe locations, the Supervisor will take a complete head count and affected personnel will stay at the safe locations until the area is secured.

8.2.2 Designated Assembly Area:

Marked on map by:

