

## **Appendix 1**

### **Drowning Case Review Abstraction Form**

# Abstraction Form for Coroner Data Childhood Drowning

Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_  
Source of Data: Orange Riverside

## 1 Reports in Coroner File Providing Information (circle all that apply)

Coroner Case Notes Police EMS SIRF CPS  
Other \_\_\_\_\_

## 2 Agencies that collected information at the scene (circle all that apply)

Coroner/ME Police Fire/EMS CPS Unk  
Other \_\_\_\_\_

3 Pictures taken of scene No Yes Unknown  
If yes, by whom Medical Examiner Police  
Are they in file? No Yes

4 Was diagram/sketch drawn of scene? No Yes Unk  
If yes, by whom Medical Examiner Police

## Victim Information

5 Age \_\_\_\_\_ Birthdate \_\_\_\_/\_\_\_\_/\_\_\_\_  
6 Gender M F 7 Ht \_\_\_\_\_ inches Wt \_\_\_\_\_ lbs

8 Hispanic No Yes

9 Race/Ethnicity  
White Black American Indian  
Asian/PI Other \_\_\_\_\_

10 Home Address documented? No Yes  
City Zip

11 Date of death \_\_\_\_/\_\_\_\_/\_\_\_\_ Time of death \_\_\_\_:\_\_\_\_:\_\_\_\_

12 Cause of Death: \_\_\_\_\_

13 Location of death: \_\_\_\_\_

14 Initial transport to: \_\_\_\_\_

## 15 Activity of child when last seen

Swimming / playing in pool/spa  
Playing outside Watching tv/video  
Sleeping Playing inside  
Going in/out of house not in area of pool/spa  
Going in/out of house to area with pool/spa  
Inside, unspec Outside, unspec  
Other \_\_\_\_\_  
Stated as unknown No documentation in coroner record

## 16 Type of clothing worn by victim when found

Swimsuit Day clothing  
Pajamas None  
Diaper only Other \_\_\_\_\_  
Stated as unknown No documentation in coroner record

Case #: \_\_\_\_\_

Codes: 96 not applicable  
97 other  
98 stated as unknown in coroner files  
99 no documentation in coroner files

Cases to be reviewed include pool/spa drowning deaths of children 1-4 years of age occurring in Orange and Riverside Counties between 2000-2007.

This review of coroner files is being conducted to:

- \* determine the quality and quantity of data regarding childhood drowning that is available in coroner files
- \* determine what other agencies may be involved with the drowning cases, either before or after the incident
- \* identify and examine additional information in the coroner files that may be relevant to or provide more in-depth understanding of the issue of childhood pool/spa drownings

17 Antecedent activities relevant to incident

## 18 Medical History

Healthy  
Acute condition (specify) \_\_\_\_\_  
Disability or Chronic medical condition  
Autism  
Seizures  
Cardiac  
Behavioral (specify) \_\_\_\_\_  
Physical (specify) \_\_\_\_\_  
Other (specify) \_\_\_\_\_

Other \_\_\_\_\_  
Stated as unknown No documentation in coroner record

## 19 Did child (circle all that apply)

Walk  
Crawl only  
Able to unlock door  
Able to open sliding glass door  
Other \_\_\_\_\_  
Stated as unknown No documentation in coroner record

20 Other comments related to victim

**Supervision Information (at time of incident)**

21 Primary person/s responsible for supervision of child

Mother \_\_\_\_\_ Father \_\_\_\_\_  
 Stepmother \_\_\_\_\_ Stepfather \_\_\_\_\_  
 Foster mother \_\_\_\_\_ Foster father \_\_\_\_\_  
 Sibling Age <11 yr 11-18yr >18yr F M  
 Grandmother \_\_\_\_\_ Grandfather \_\_\_\_\_  
 Other adult relative (specify) \_\_\_\_\_ F M  
 Parent girlfriend \_\_\_\_\_ Parent boyfriend \_\_\_\_\_  
 Babysitter/Nanny \_\_\_\_\_ F M  
 Childcare Provider \_\_\_\_\_ F M  
 Friend \_\_\_\_\_ F M  
 Other Adult \_\_\_\_\_ F M  
 Other child Age <11 yr 11-18 yr F M  
 Two supervisors (Who? \_\_\_\_\_)  
 Multiple persons with no identified supervisor  
 Other \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

22 Does supervisor speak English?

Yes \_\_\_\_\_ Yes, limited English \_\_\_\_\_  
 No \_\_\_\_\_  
 If limited or no English, what language?  
 Spanish \_\_\_\_\_ Vietnamese \_\_\_\_\_  
 Other \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

23 If supervisor not parent, how often was individual responsible for supervising child?

This was first time \_\_\_\_\_  
 Monthly \_\_\_\_\_ Weekly \_\_\_\_\_  
 Several times a week \_\_\_\_\_ Daily \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

24 If supervisor not parent- where was parent at the time

At location – inside residence \_\_\_\_\_  
 At location – outside near water \_\_\_\_\_  
 At location – not in vicinity of water \_\_\_\_\_  
 Not at incident location \_\_\_\_\_  
 At work \_\_\_\_\_ At home \_\_\_\_\_  
 Out of town \_\_\_\_\_ Other \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

25 Victim last seen by supervisor

Outside in pool/spa \_\_\_\_\_ Outside on edge of pool/spa \_\_\_\_\_  
 Outside in vicinity of pool/spa \_\_\_\_\_  
 If fence around pool, child inside fenced area \_\_\_\_\_  
 Outside, backyard, not near pool/spa \_\_\_\_\_  
 Outside, frontyard without access to pool area \_\_\_\_\_  
 Inside residence \_\_\_\_\_  
 Going in and out of house to pool/spa area \_\_\_\_\_  
 Going in and out of house not to pool/spa area \_\_\_\_\_  
 Other \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

26 Had the supervisor been drinking?

No \_\_\_\_\_ Yes \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

27 Had the supervisor been using drugs?

No \_\_\_\_\_ Yes (what?) \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

28 Estimated time since child last seen by supervisor \_\_\_\_\_

29 Where was supervisor at time of incident?

Inside residence, unspec re: victim in sight \_\_\_\_\_  
 Inside of residence – *victim within sight* \_\_\_\_\_  
 Inside of residence – victim out of sight \_\_\_\_\_  
 In water with victim \_\_\_\_\_  
 Outdoors, not in water – victim within sight \_\_\_\_\_  
 Outdoors, not in water – victim out of sight \_\_\_\_\_  
 Inside pool/spa area with victim in sight \_\_\_\_\_  
 Inside pool/spa area with victim not in sight \_\_\_\_\_  
 Other \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

30 If child out of sight, where did supervisor think child was?

31 Why did supervisor start looking for child? \_\_\_\_\_

32 When noticed child missing where did they look first? \_\_\_\_\_

33 At time of incident was supervisor (circle all that apply)

Drug impaired \_\_\_\_\_ Alcohol impaired \_\_\_\_\_  
 Asleep \_\_\_\_\_ Napping with child \_\_\_\_\_  
 Impaired by illness or disability \_\_\_\_\_  
 Distracted – doing what \_\_\_\_\_  
 On phone \_\_\_\_\_ Watching TV \_\_\_\_\_  
 Preparing meal \_\_\_\_\_ Attending to another child \_\_\_\_\_  
 Working around house \_\_\_\_\_ Cleaning \_\_\_\_\_  
 Talking/visiting with another person/s \_\_\_\_\_  
 In bathroom \_\_\_\_\_ Other \_\_\_\_\_  
 Supervisor absent from location of incident \_\_\_\_\_  
 Other \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

34 Did supervisor think someone else was watching child?

No \_\_\_\_\_  
 Yes, if yes \_\_\_\_\_  
 Who \_\_\_\_\_  
 Did supervisor ask that person to watch child? \_\_\_\_\_  
 No Yes \_\_\_\_\_  
 If yes, did other person acknowledge responsibility? \_\_\_\_\_  
 No Yes \_\_\_\_\_  
 Assumed child okay because adults around \_\_\_\_\_  
 Assumed child okay because with other children \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

35 Did anyone else see victim after supervisor last saw child?

No \_\_\_\_\_ Yes \_\_\_\_\_  
 If yes, \_\_\_\_\_  
 Who \_\_\_\_\_  
 Where was this person located? \_\_\_\_\_  
 Outside in pool/spa \_\_\_\_\_ Outside on edge of pool/spa \_\_\_\_\_  
 Outside in vicinity of pool/spa \_\_\_\_\_  
 Outside not near pool \_\_\_\_\_ Inside residence \_\_\_\_\_  
 Other \_\_\_\_\_  
 Where did they see child? \_\_\_\_\_  
 Stated as unknown No documentation in coroner record

36 Other comments related to supervision \_\_\_\_\_

## Family / Social History

### 37 Household composition for child

Household size (excluding victim) \_\_\_\_\_

Adults (18 +) Number \_\_\_\_\_

Mother (Age) \_\_\_\_\_

Father (Age) \_\_\_\_\_

Stepparent Female Male

Grandmother \_\_\_\_\_

Grandfather \_\_\_\_\_

Uncle/s (number) \_\_\_\_\_

Aunt/s (number) \_\_\_\_\_

Parent's boyfriend \_\_\_\_\_

Parent's girlfriend \_\_\_\_\_

Other adult/s (specify number) \_\_\_\_\_

Children Number \_\_\_\_\_

Siblings Number \_\_\_\_\_

Ages \_\_\_\_\_

Other children Ages \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 38 If several families in household, how well do they know each other?

Related Unrelated but know each other well

Unrelated but do not know each other well

Stated as unknown No documentation in coroner record

### 39 Does everyone in household speak English?

Yes No

If no, other language spoken

Spanish \_\_\_\_\_

Vietnamese \_\_\_\_\_

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 40 Marital status of parent with whom child lives

Parent married to each other

Parents together, marriage status not specified

Single

Parents cohabitating

Living with partner but not other parent

Parents never married, now single

Parents never married, now married to someone else

Separated

Divorced

Single

Remarried

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 41 If divorced or separated, does parent who is not living with child have

Little or no contact with child

Joint custody

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

## Social (Child Protective) Services (CPS), Criminal History

### 42 Child Abuse Referral to CPS made for this incident

No

Yes – if yes

By whom \_\_\_\_\_

Any CPS action because of incident

No Yes

If yes, what \_\_\_\_\_

Stated as unknown

No documentation in coroner record

Stated as unknown No documentation in coroner record

### 43 Prior Child Abuse Reports for family (circle all that apply)

No

Yes

Substantiated

child as victim No Yes Unk

sibling/s as victim/s No Yes Unk

mother as victim No Yes Unk

father as victim No Yes Unk

mother as perpetrator No Yes Unk

father as perpetrator No Yes Unk

Stated as unknown No documentation in coroner record

### 44 Was there an open CPS case at time of incident?

No

Yes

For this child No Yes

For other child No Yes

Who had custody

Parent Other relative Foster parent

Stated as unknown No documentation in coroner record

### 45 Parent/Supervisor substance abuse history

Mother

Alcohol No Yes

Drugs No Yes

Father

Alcohol No Yes

Drugs No Yes

Supervisor

Alcohol No Yes

Drugs No Yes

Stated as unknown No documentation in coroner record

### 46 Criminal history

Mother No Yes

Father No Yes

Specify \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 47 Prior police calls to residence?

No Yes (specify) \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 48 Violations (as related to child/children, ie car seat ticket)

No Yes (specify) \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 49 Other comments related to family/social history (ie. recent moves, disruption in household, etc)

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## Incident Information

50 Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Time \_\_\_\_:\_\_\_\_:\_\_\_\_

### 51 Incident location

Address documented in coroner records

No Yes

City Zip

Stated as unknown No documentation in coroner record

### 52 Type of Dwelling

Single family house – one level multiple levels

Rental Yes No Not ascertained

HUD Yes No Not ascertained

(if yes, date of last inspection and relevant information related to pool)

Multi-unit

Apartment

Ground floor? No Yes

Condo

Rental No Yes Not ascertained

HUD No Yes Not ascertained

(if yes, date of last inspection and relevant information related to pool)

Hotel/Motel

NA – community association pool/spa separate location from residence /apt or condo complex

NA – public pool NA – lake, ocean

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 53 Site of Incident

Victim Residence

Relative Residence

Grandparent

Other relative (indicate relationship to child) \_\_\_\_\_

Neighbor Residence Friend Residence

Sitters/Daycare

Licensed Y N

Community association pool/spa complex

Distance from residence

<100ft 100-500 ft >500 ft

Hotel/motel Public Park Ocean

River/stream Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 54 How long has owner/leasee lived at this address? \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 55 How long had victim lived at this address? \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 56 Was there a party, non routine or unusual circumstance?

No Yes (specify) \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 57 If incident did not occur at child's home, why at location

Visiting Attending party

Entered yard uninvited Being babysat

Joint custody Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 58 If not child's home, how often had child been at incident location?

Never before Occasionally Frequently Daily

Stated as unknown No documentation in coroner record

### 59 If not child's home, how long had child been at location prior to incident?

< 15 min 15-60 min 1-6 hr 6-24 hr >24 hr

Stated as unknown No documentation in coroner record

### 60 How often did child use this pool/spa?

Never Occasionally Frequently Daily

Stated as unknown No documentation in coroner record

### 61 # of people (other than child) at location when incident occurred \_\_\_\_\_ (Either number or text)

# adults \_\_\_\_\_ # children \_\_\_\_\_

# Adults (>17) \_\_\_\_\_

# in water \_\_\_\_\_ # in vicinity of water \_\_\_\_\_

# 13-17 yr olds \_\_\_\_\_

# in water \_\_\_\_\_ # in vicinity of water \_\_\_\_\_

# 6-12 yr olds \_\_\_\_\_

# in water \_\_\_\_\_ # in vicinity of water \_\_\_\_\_

# <6 yr olds \_\_\_\_\_

# in water \_\_\_\_\_ # in vicinity of water \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 62 Alcohol and/or drug use evident at time of event

No Yes

Stated as unknown No documentation in coroner record

### 63 Did any adults appear under the influence

Alcohol? No Yes Drugs? No Yes

Stated as unknown No documentation in coroner record

### 64 Use of floaties/water wings?

Not in use

Yes, wearing at time of incident

Had been wearing when last seen but not on at time of incident

Usually wears them but not in use at time of incident

Stated as unknown No documentation in coroner record

### 65 Position of child when found

Floating face down Floating face up

Floating not specified At bottom of pool/spa

In water on top of pool cover

(specify depth of water on top of cover) \_\_\_\_\_

Other (specify) \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 66 If in-ground pool, was child found in

Deep end Shallow end

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

### 67 Other comments related to incident

\_\_\_\_\_

## Water Source Information

68 Body of water type where incident occurred

Pool – in ground

Pool – above ground

Permanent/semi-permanent

Large inflatable (“big blue pool”)

Inflatable kiddie pool (12” or under)

Child Wading Pool

Spa/Hot Tub

free-standing above ground

free-standing in ground

attached to pool

Decorative pond

Fountain

Bathtub

Toilet

Bucket

Natural lake or pond

Stream/river

Ocean

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

69 Water Depth (deepest depth)

Under 18 in

18-48 in

Over 4 ft

Stated as unknown No documentation in coroner record

70 Were there steps into pool?

No Yes

Stated as unknown No documentation in coroner record

71 Was there a bubble (solar) cover on pool?

No Yes

Stated as unknown No documentation in coroner record

72 Water Clarity

Clear

Cloudy

Muddy

Dirty

Green

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

73 Water temperature \_\_\_\_\_ (Number or text)

Stated as unknown No documentation in coroner record

74 If spa, were jets on?

No Yes

Stated as unknown No documentation in coroner record

75 If spa, was clarity obscured because of jets?

No Yes

Stated as unknown No documentation in coroner record

76 Other bodies of water in same yard? (Circle all that apply)

Detached spa/hot tub Swimming pool

Pond

Wading pool

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

77 Was there drain entrapment?

Yes

No

78 How often is pool/spa used?

Never/rarely

Occasionally

Frequently/Regular use

Stated as unknown No documentation in coroner record

79 What was pool use day of event?

Not being used day of incident

Used by victim day of event

Being used by others prior to incident

Being used by others at time of incident

Was going to be used later in day

Stated as unknown No documentation in coroner record

80 Toys or other objects in water?

No

Yes (describe) \_\_\_\_\_

Stated as unknown No documentation in coroner record

81 Other toys or objects near pool?

No

Yes (describe) \_\_\_\_\_

Stated as unknown No documentation in coroner record

82 Year pool was built (permit signed off when) \_\_\_\_\_

Stated as unknown No documentation in coroner record

83 Pool built prior to 1998

No Yes

Stated as unknown No documentation in coroner record

84 If pool/spa, did it have any unusual characteristics, features such as waterfall, rocky perimeter/

No Yes

Stated as unknown No documentation in coroner record

85 Have there been any code violations (for pool or for residence?)

No Yes (specify) \_\_\_\_\_

Stated as unknown No documentation in coroner record

86 Were any actions taken by public agency after event? For example city drained pool, condemned property, installed fence)

No Yes

If yes, what and by whom? \_\_\_\_\_

Stated as unknown No documentation in coroner record

87 Were any actions taken by parents/owners or pool after event?

No Yes

If yes, what? \_\_\_\_\_

Stated as unknown No documentation in coroner record

88 Other comments related to water source

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Barrier / Access Information****89 Property Line Fence**

No

Yes

Fence type \_\_\_\_\_ Fence Ht \_\_\_\_\_

Condition of fence (circle all that apply)

well maintained, deteriorating, damaged,  
broken missing portion, large gapsWere there openings in fence large enough for child  
to pass through? No Yes

Was the fence climbable? No Yes

Stated as unknown No documentation in coroner record

**90 Is there direct access from house /garage to pool/spa?**

No

Yes

If direct access from house or garage to pool/spa

Access points from house mentioned in files

Hinged doors \_\_\_\_\_ # open \_\_\_\_\_ # locked \_\_\_\_\_ # alarmed \_\_\_\_\_

Sliding doors \_\_\_\_\_ # open \_\_\_\_\_ # locked \_\_\_\_\_ # alarmed \_\_\_\_\_

Windows \_\_\_\_\_ Doggy doors \_\_\_\_\_

Access points from garage mentioned in files

Hinged doors \_\_\_\_\_ # open \_\_\_\_\_ # locked \_\_\_\_\_ # alarmed \_\_\_\_\_

Sliding doors \_\_\_\_\_ # open \_\_\_\_\_ # locked \_\_\_\_\_ # alarmed \_\_\_\_\_

Windows \_\_\_\_\_ Doggy doors \_\_\_\_\_

Stated as unknown No documentation in coroner record

**91 Is there a fence between the house/garage and pool/spa?**

No

Yes

Does fence completely separate pool/spa from all  
home/garage entrances/exits (isolation fence)?

No (explain) \_\_\_\_\_

Yes

Fence type \_\_\_\_\_

Permanent Removable

Fence Ht \_\_\_\_\_

Condition of fence (circle all that apply)

well maintained, deteriorating, damaged,  
broken missing portion, large gaps

Climbable No Yes

Furniture nearby that allowed access No Yes

Were there openings in fence large enough for child  
to pass through? No Yes

Stated as unknown No documentation in coroner record

**92 If isolation fence, number of gates in fence \_\_\_\_\_**

Were gate/s

Open No Yes

Self-closing/Self latching No Yes

Working properly No Yes

Locked No Yes

Stated as unknown No documentation in coroner record

**93 Other gates (not part of isolation fence) leading to pool/spa**

Open No Yes

Self-closing/Self latching No Yes

Gate working properly No Yes

Locked No Yes

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

**94 Other barriers/measures**

Safety cover

No

Yes

Automatic

On

Off

Manual

On

Off

Pool Safety Net

No

Yes, in use

Yes, not in use

Alarms

Door

No

Yes

Functional

Disabled

Not working

Gate

No

Yes

Functional

Disabled

Not working

Water/pool

No

Yes

Functional

Disabled

Not working

Personal (wristband) on child

Functional

Disabled

Not working

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

**95 Access to Pool/Spa by Victim (Circle all that apply)**

Brought into water area by other person

Followed another person into pool/spa area

Direct access/No barriers

Sliding door open

Hinged door open

Isolation fence gate propped /left open

Safety cover/ net was removed

Window open

No mention of access but was outside in area of pool

Other \_\_\_\_\_

Victim breached safety barrier(s)

Sliding door was closed but unlatched or unlocked

Hinged door was closed but unlatched or unlocked

Isolation fence gate closed but unlatched

Isolation fence gate closed but unlocked

Door alarm did not sound/was disarmed

Child unlocked hinged door from house

Child unlocked sliding door from house

Child unlocked gate

Other \_\_\_\_\_

Not sure if door left open or left unlocked

Other contributing conditions \_\_\_\_\_

Stated as unknown No documentation in coroner record

**96 Did child exit house from usual exit to the pool?**

No

Yes (explain)

Stated as unknown No documentation in coroner record

**97 From what room did child exit house?**

Kitchen

Dining room

Living room

Family room/den

Bedroom

Garage

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

**98 Statements by parents/supervisors that they thought barriers were adequate or child could not access pool. No Yes (what?)****99 Explain how victim got through barrier(s)/accessed pool.****100 Other comments related to barriers or access**

## Classes/Emergency Preparation and Response

101 Was any rescue equipment (Shepherd's hook, life ring) near water?

No

Yes

Condition of equipment

Excellent

Good

Fair

Poor

Functional

Yes

No

Stated as unknown No documentation in coroner record

102 Was phone near pool/spa?

No

Yes

Condition of equipment

Functional

Stated as unknown No documentation in coroner record

103 Who found child in water?

Supervisor

Another adult (>12?)

Child

Other

Stated as unknown No documentation in coroner record

104 Who pulled child from water? \_\_\_\_\_

Was this person on scene

or did they come from outside scene area

Stated as unknown No documentation in coroner record

105 Was there a delay in pulling child from pool?

No

Yes, specify \_\_\_\_\_

Stated as unknown No documentation in coroner record

106 Estimated time of submersion

\_\_\_\_ EMS/Medical \_\_\_\_ parent

Stated as unknown No documentation in coroner record

107 Was 911 called

No

Yes

By whom

From incident site Yes No

If no, specify what happened \_\_\_\_\_

Stated as unknown No documentation in coroner record

108 Problems with 911 call (*circle those that apply*)

Could not get through

Put on hold

Language barrier

Issues with cell phone

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

109 Who initiated CPR?

Supervisor Relative /friend/neighbor at incident location

Bystander at incident site

Neighbor, but not at incident location

Police

Paramedic

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

110 Estimated time to initiate CPR:

Immediately/within minutes

Delayed

Not until emergency response got to scene

Comments \_\_\_\_\_

Stated as unknown No documentation in coroner record

111 Other than police and paramedic, was person who administered CRP certified?

No

Yes

Had taken CPR – certification not specified

Received instructions over the phone

Stated as unknown No documentation in coroner record

112 Did supervisor ever take CPR?

No

Yes

Stated as unknown No documentation in coroner record

113 Did supervisor know how to swim?

No

Yes

Stated as unknown No documentation in coroner record

114 Did victim ever take swim lessons or water safety classes?

No

Yes, formal swim lessons

How long

What age started

Yes, informal instruction

Took water familiarity class with adult

Stated as unknown No documentation in coroner record

115 Child's familiarity (attitude, comfort level) with water

Afraid of water

Did not like water

Was in pool often

Liked playing in pool

Other \_\_\_\_\_

Stated as unknown No documentation in coroner record

116 Did child know how to swim?

No

Yes

Has some ability

Stated as unknown No documentation in coroner record

117 Level of swimming ability as stated by parent/supervisor)

Stated as unknown No documentation in coroner record

118 Had any of these previously occurred with child? (circle all that apply)

Gotten out of house by self

Unlatched gates/doors

Been found by the pool

Fallen into the water

Gone into pool unattended

Opened doors leading to pool

Jumped in the pool unexpectedly

Other \_\_\_\_\_

Comment on when it occurred \_\_\_\_\_

Stated as unknown No documentation in coroner record

119 Other comments on emergency preparedness and response

\_\_\_\_\_  
\_\_\_\_\_



## **Appendix 2**

### **Abstraction Guide**

**PAGE 1 Coroner and Victim Information**

- 1 Reports in Coroner File providing information
- 2 Agencies that collected information at the scene
- 3 Pictures taken of scene
- 4 Was diagram/sketch drawn of scene?
- 5 Age & Birthdate
- 6 Gender
- 7 Ht & Wt
- 8 Hispanic
- 9 Race/Ethnicity
- 10 Home Address
- 11 Date & Time of death
- 12 Cause of Death
- 13 Location of death
- 14 Initial transport to
- 15 Activity of child when last seen
- 16 Type of clothing worn by victim when found
- 17 Antecedent activities relevant to incident
- 18 Medical History
- 19 Did child (physical abilities)
- 20 Other comments related to victim

**PAGE 2 Supervision Information**

- 21 Primary person/s responsible for supervision of child
- 22 Does supervisor speak English?
- 23 If not parent, how often responsible for supervising child?
- 24 If supervisor not parent- where was parent at the time
- 25 Victim last seen by supervisor
- 26 Had the supervisor been drinking?
- 27 Had the supervisor been using drugs?
- 28 Estimated time since child last seen by supervisor
- 29 Where was supervisor at time of incident?
- 30 If child out of sight, where did supervisor think child was?
- 31 Why did supervisor start looking for child?
- 32 When noticed child missing where did they look first?
- 33 At time of incident was supervisor impaired, distracted
- 34 Did supervisor think someone else was watching child?
- 35 Did anyone else see victim after supervisor last saw child?
- 36 Other comments related to supervision

**PAGE 3 Family / Social History**

- 37 Household composition for child
- 38 If several families in HH, know each other well?
- 39 Does everyone in household speak English?
- 40 Marital status of parent with whom child lives
- 41 If divorced or separated, contact with other parent
- Social (Child Protective) Services (CPS), Criminal History**
- 42 Child Abuse Referral to CPS made for this incident
- 43 Prior Child Abuse Reports for family (circle all that apply)
- 44 Was there an open CPS case at time of incident?
- 45 Parent/Supervisor substance abuse history
- 46 Criminal history
- 47 Prior police calls to residence?
- 48 Violations (as related to child/children, ie car seat ticket)
- 49 Other comments related to family/social history

**PAGE 4 Incident Information**

- 50 Date & Time
- 51 Incident address
- 52 Type of dwelling
- 53 Site of Incident
- 54 How long has owner/leasee lived at this address? \_\_\_\_\_
- 55 How long had victim lived at this address? \_\_\_\_\_
- 56 If not at child's home, specify why was child at location
- 57 If not child's home, how often at incident location?
- 58 If not child's home, how long at location prior to incident?

- 59 How often did child use this pool/spa?
- 60 # of people at location when incident occurred
- 61 Alcohol and/or drug use evident at time of event
- 62 Did any adults appear under the influence
- 63 Use of floaties/water wings?
- 64 Position of child when found
- 65 If in-ground pool, was child found in
- 66 Other comments related to incident

**PAGE 5 Water Source Information**

- 67 Body of water type where incident occurred
- 68 Water depth (deepest depth)
- 69 Were there steps into pool?
- 70 Was there a bubble (solar) cover on pool?
- 71 Water clarity
- 72 Water temperature
- 73 If spa, were jets on?
- 74 If spa, was clarity obscured because of jets?
- 75 Other bodies of water in same yard? (Circle all that apply)
- 76 Was there drain entrapment?
- 77 How often is pool/spa used?
- 78 What was pool use day of event?
- 79 Toys or other objects in water?
- 80 Other toys or objects near pool?
- 81 Year pool was built (permit signed off when) \_\_\_\_\_
- 82 Pool built prior to 1998
- 83 If pool/spa any unusual characteristics, features
- 84 Have there been any code violations
- 85 Were any actions taken by public agency after event?
- 86 Any actions taken by parents/owners or pool after event?
- 87 Other comments related to water source

**PAGE 6 Barrier / Access Information**

- 88 Property line fence
- 89 Is there direct access from house /garage to pool/spa?
- 90 Is there a fence between the house/garage and pool/spa?
- 91 If isolation fence, number of gates in fence
- 92 Other gates (not part of isolation fence) leading to pool/spa
- 93 Other barriers/measures
- 94 Access to pool/spa by victim
- 95 Did child exit house from usual exit to the pool?
- 96 From what room did child exit house?
- 97 Thought barriers adequate or child could not access pool.
- 98 Explain how victim got through barrier(s)/accessed pool
- 99 Other comments related to barriers or access

**PAGE 7 Classes/Emergency Response**

- 100 Was any rescue equip
- 101 Was phone near pool/spa?
- 102 Who found child in water?
- 103 Who pulled child from water? \_\_\_\_\_
- 104 Was there a delay in pulling child from pool?
- 105 Estimated time of submersion
- 106 Was 911 called
- 107 Problems with 911 call (*circle those that apply*)
- 108 Who initiated CPR?
- 109 Estimated time to initiate CPR:
- 110 Was person who administered CRP certified?
- 111 Did supervisor ever take CPR?
- 112 Did supervisor know how to swim?
- 113 Did victim ever take swim lessons or water safety classes?
- 114 Child's familiarity (attitude, comfort level) with water
- 115 Did child know how to swim?
- 116 Level of swimming ability as stated by parent/supervisor)
- 117 Had any of these previously occurred with child
- 118 Other comments on emergency preparedness and response

## **Appendix 3**

### **Coding Tool**

## Coding Tool

ID	___	___	___		
Source	1 Orange	2 Riverside			
1 RepME	1 No	2 Yes			
RepPD	1 No	2 Yes			
RepEMS	1 No	2 Yes			
RepSIRF	1 No	2 Yes			
RepCPS	1 No	2 Yes			
ROther	Text				
2 SceneME	1 no	2 yes	98 unknown coroner	99 no documentation	
ScenePD	1 no	2 yes	98 unknown coroner	99 no documentation	
SceneEMS	1 no	2 yes	98 unknown coroner	99 no documentation	
SceneCPS	1 no	2 yes	98 unknown coroner	99 no documentation	
SOther	Text				
3 Pic	1 no	2 yes	98 unknown coroner	99 no documentation	
PicME	1 no	2 yes	98 unknown coroner	99 no documentation	
PicPD	1 no	2 yes	98 unknown coroner	99 no documentation	
PicFile	1 no	2 yes	98 unknown coroner	99 no documentation	
4 Diag	1 no	2 yes	98 unknown coroner	99 no documentation	
DiagME	1 no	2 yes	98 unknown coroner	99 no documentation	
DiagPD	1 no	2 yes	98 unknown coroner	99 no documentation	

## Victim Information

5 Age	___ . ___ (decimal years)				
BD	___/___/___				
6 Sex	1 male	2 female			
7 Ht	___ (inches)				
Wt	___ (lb)				
8 Hisp	1 No	2 Yes			
9 Race	1 White	2 Black	3 Am Ind	5 API	97 Other
10 Add	1 No	2 Yes			
City	Text				
Zip	___-___-___				
11 Death	___/___/___				
DieTime	___:___:___				
12 Cause	Text				
13 DieLoc	Text				
14 TransLoc	Text				
15 Activ	1 Swimming/playing in pool/spa				
	2 Playing outside				
	3 Watching tv/video				
	4 Sleeping				
	5 Playing inside				
	6 Going in/out of house not in area of pool/spa				
	7 Going in/out of house to area with pool/spa				
	8 Inside, unspec				
	9 Outside, upspe				
	97 other				
	98 stated as unknown				
	99 no documentation in coroner files				
ActivOth	Text				

16 Cloth	1 swimsuit 2 day clothing 3 pajamas 4 none 5 panties/diaper only 97 other 98 stated as unknown 99 no documentation in coroner files			
ClothOth	Text			
17 Ante	Text			
18 MedHis	1 healthy 2 acute condition 3 autism 4 seizures 5 cardiac 6 behavioral 7 physical 8 disability other 97 other 98 stated as unknown 99 no documentation in coroner files			
HistOth	Text			
19 Walk	1 no	2 yes	98 unknown in coroner file	99 no documentation
Crawl	1 no	2 yes	96 not applicable	98 unknown in coroner file 99 no documentation
Unlock	1 no	2 yes	98 unknown in coroner file	99 no documentation
Open	1 no	2 yes	98 unknown in coroner file	99 no documentation
AbilOth	Text			
20 VicCom	Text			

## Supervision

21 Sup	1 mother 2 father 3 stepmother 4 stepfather 5 foster mother 6 foster father 7 sibling <11 yr, female 8 sibling <11 yr, male 9 sibling 11-18 yr, female 10 sibling 11-18 yr, male 11 sibling >18 yr, female 12 sibling > 18 yr, male 13 grandmother 14 grandfather 15 other adult relative, female 16 other adult relative, male 17 parent's girlfriend 18 parent's boyfriend 19 babysitter/nanny 20 childcare provider 21 friend, female 22 friend, male 23 other adult, female 24 other adult, male 25 other child <11 yr, female 26 other child <11 yr, male 27 other child 11-18 yr, female 28 other child 11-18 yr, male 29 two supervisors 30 multiple persons with no identified supervisor 97 other 98 stated as unknown 99 no documentation in coroner files
SupOth	Text
22 Eng	2 yes 3 yes, limited 4 no, Spanish 5 no, Vietnamese 97 no, other 98 stated as unknown 99 no documentation in coroner files
23 SupOft	1 first time 2 monthly 3 weekly 4 several times a week 5 daily 96 not applicable 97 other 98 stated as unknown 99 no documentation in coroner file
24 LocPar	1 at location- inside residence 2 at location – outside near water 3 at location – not in vicinity of water

	4 not at location – unspec where			
	5 not at location - at work			
	6 not at location – at home			
	7 not at location – out of town			
	8 not at location – other			
	96 not applicable			
	97 other			
	98 stated as unknown			
	99 no documentation in coroner file			
25 LastSaw	1 outside in pool/spa			
	2 outside on edge of pool/spa			
	3 outside in vicinity of pool/spa			
	4 outside in vicinity of pool/spa inside fenced area			
	5 outside, backyard, not near pool/spa			
	6 frontyard without direct access to pool area			
	7 inside residence			
	8 going in and out of house to pool/spa area			
	9 going in and out of house not to pool/spa area			
	10 outside, not in vicinity of pool			
	97 other			
	98 stated as unknown			
	99 no documentation in coroner file			
26 SupHBD	1 no	2 yes	98 unknown coroner	99 no documentation
27 SupDrug	1 no	2 yes	98 unknown coroner	99 no documentation
28 EstMiss	__ __ (minutes)			
29 LocSup	1 inside residence, unspec			
	2 inside residence – victim within sight			
	3 inside of residence – victim out of sight			
	4 in water with victim			
	5 outdoors, not in water – victim within sight			
	6 outdoors, not in water – victim out of sight			
	7 inside pool/spa area with victim in sight			
	8 inside pool/spa area with victim not in sight			
	97 other			
	98 stated as unknown			
	99 no documentation in coroner file			
30 VicWhere	Text			
31 LookWhy	Text			
32 LookWhe	Text			
33 SupAct1	1 drug impaired			
	2 alcohol impaired			
	3 asleep			
	4 napping with child			
	5 impaired by illness or disability			
	6 distracted, no additional information			
	7 distracted, on phone			
	8 distracted, watching tv			
	9 distracted, preparing meal			
	10 distracted, attending to another child			
	11 distracted, working around house			
	12 distracted, cleaning			
	13 distracted, talking/visiting with another person/s			

	14 distracted, in bathroom
	15 distracted, other
	16 supervisor absent from location of incident
	97 other
	98 stated as unknown
	99 no documentation in coroner file
SupAct1	Text
SupAct2	1 drug impaired
	2 alcohol impaired
	3 asleep
	4 napping with child
	5 impaired by illness or disability
	6 distracted, no additional information
	7 distracted, on phone
	8 distracted, watching tv
	9 distracted, preparing meal
	10 distracted, attending to another child
	11 distracted, working around house
	12 distracted, cleaning
	13 distracted, talking/visiting with anotherperson/s
	14 distracted, in bathroom
	15 distracted, other
	16 supervisor absent from location of incident
	96 not applicable
	97 other
	98 stated as unknown
	99 no documentation in coroner file
SupAct2	Text
SupAct3	1 drug impaired
	2 alcohol impaired
	3 asleep
	4 napping with child
	5 impaired by illness or disability
	6 distracted, no additional information
	7 distracted, on phone
	8 distracted, watching tv
	9 distracted, preparing meal
	10 distracted, attending to another child
	11 distracted, working around house
	12 distracted, cleaning
	13 distracted, talking/visiting with anotherperson/s
	14 distracted, in bathroom
	15 distracted, other
	16 supervisor absent from location of incident
	96 not applicable
	97 other
	98 stated as unknown
	99 no documentation in coroner file
SupAct3	Text
34 ElseSup	1 no
	2 yes
	3 assumed child okay because adults
	4 assumed child okay because with other children
	5 possibly thought other adult keeping eye on child
	97 other



	98 stated as unknown		
	99 no documentation in coroner file		
ElseAsk	1 no    2 yes    96 not applicable	98 unknown	99 no documentation
ElseAck	1 no    2 yes    96 not applicable	98 unknown	99 no documentation
ElseWho	Text		
35 ElseSee	1 no    2 yes    98 stated as unknown		99 no documentation in coroner file
ElseWh	text (who if yes)		
ElseLoc	1 outside in pool/spa		
	2 outside on edge of pool/spa		
	3 outside in vicinity of pool/spa		
	4 outside not near pool		
	5 inside residence		
	96 not applicable		
	97 other		
	98 unknown		
	99 no documentation		
SeeWher	Text		
36 SupCom	Text		

## Family/Social History

37 HHSIZE	— — (number)			
HHAdlt	— — (number)			
Mother	1 no 2 yes	98 stated as unknown	99 no documentation in file	
MoAge	— —			
Father	1 no 2 yes	98 stated as unknown	99 no documentation in file	
FaAge	— —			
StepMo	1 no 2 yes	98 stated as unknown	99 no documentation in file	
StepFa	1 no 2 yes	98 stated as unknown	99 no documentation in file	
GrndMa	1 no 2 yes	98 stated as unknown	99 no documentation in file	
GrndFa	1 no 2 yes	98 stated as unknown	99 no documentation in file	
Uncl	1 no 2 yes	98 stated as unknown	99 no documentation in file	
Aunt	1 no 2 yes	98 stated as unknown	99 no documentation in file	
BF	1 no 2 yes	98 stated as unknown	99 no documentation in file	
GF	1 no 2 yes	98 stated as unknown	99 no documentation in file	
OthAdult	1 no 2 yes	98 stated as unknown	99 no documentation in file	
HHChld	— — (number)	98 stated as unknown	99 no documentation in file	
HHSib	— — (number)	98 stated as unknown	99 no documentation in file	
SibAge1	— —			
SibAge2	— —			
SibAge3	— —			
SibAge4	— —			
SibAge5	— —			
ChldAge1	— —			
ChldAge2	— —			
ChldAge3	— —			
ChldAge4	— —			
38 Know	1 related 2 unrelated but know each other well 3 unrelated but do not know each other well 4 related and unrelated but know each other 96 not applicable 97 other 98 stated as unknown 99 no documentation in coroner file			
39 HHEng	2 yes 3 no, Spanish 4 no, Vietnamese 97 no, other 98 stated as unknown 99 no documentation in coroner files			
40 MarStat	1 parents married to each other 2 parents together, marriage status not specified 3 single 4 parents cohabiting 5 living with partner, not other parent 6 parents never married, not together, married to someone else 7 separated 8 parents not married, not living together 9 separated/divorced 10 married, not to father 11 divorced, single 12 divorced, remarried 97 other			

98 stated as unknown  
 99 no documentation in coroner file

41 NotLiv      1 Little or no contact with child  
                   2 Joint custody  
                   3 Occasional contact  
                   96 Not applicable  
                   97 Other \_\_\_\_\_  
                   98 Stated as unknown  
                   99 No documentation in coroner record

### CPS, Criminal History

42 CAR            1 no  
                      2 yes  
                      3 yes, action taken  
                      4 yes, no action taken  
                      5 yes, not documented if or what action taken  
                      97 other  
                      98 stated as unknown  
                      99 no documentation in coroner file

CARWho        Text (who)  
 CARWhat       Text (what action)

43 PrevCAR      1 no  
                      2 yes  
                      98 stated as unknown  
                      99 no documentation in coroner file

Code only if PrevCAR =2 (yes)

ChVic	1 unsubstantiated	2 substantiated	3 unknown or not documented if substantiated	96 not app
SibVic	1 unsubstantiated	2 substantiated	3 unknown or not documented if substantiated	96 not app
MoVic	1 unsubstantiated	2 substantiated	3 unknown or not documented if substantiated	96 not app
FaVic	1 unsubstantiated	2 substantiated	3 unknown or not documented if substantiated	96 not app
MoPerp	1 unsubstantiated	2 substantiated	3 unknown or not documented if substantiated	96 not app
FaPerp	1 unsubstantiated	2 substantiated	3 unknown or not documented if substantiated	96 not app
OthVic	1 unsubstantiated	2 substantiated	3 unknown or not documented if substantiated	96 not app
OthPerp	1 unsubstantiated	2 substantiated	3 unknown or not documented if substantiated	96 not app

44 OpenCPS      1 no  
                      2 yes, this child  
                      3 yes, other child  
                      4 yes, this child plus others  
                      97 other  
                      98 stated as unknown  
                      99 no documentation in coroner file

Cust            1 yes, parent custody  
                      2 yes, relative custody  
                      3 yes, foster parent  
                      96 not applicable  
                      97 other  
                      98 stated as unknown  
                      99 no documentation in coroner file

45 MoAlc	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
MoDrug	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
FaAlc	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file

FaDrug	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
SupAlc	1 no	2 yes	96 not applicable	98 stated as unknown 99 no documentation in coroner file
SupDrug	1 no	2 yes	96 not applicable	98 stated as unknown 99 no documentation in coroner file
46 MoCrime	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
FaCrime	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
Crime	Text			
47 PDCall	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
Call	Text			
48 Viol	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
VWhat	Text (what violations)			
49 SESCom	Text			

## Incident Information

50 IncDate	___/___/___				
IncTime	___:___:___				
51 IncLoc	1 no	2 yes			
IncCity	Text				
IncZip	___-___-___				
52 Hsg	1 single family – unspec 2 single family – one level 3 single family – multiple levels 4 apartment – unspec 5 apartment – ground floor 6 apartment – not ground floor 7 condo 8 hotel/motel 96 not applicable – community association pool, public pool, lake, ocean 97 other 98 stated as unknown 99 no documentation in coroner file				
HsgOth	Text				
HsgRent	1 no	2 yes	96 not applicable	98 stated as unknown	99 no documentation in coroner file
HsgHUD	1 no	2 yes	96 not applicable	98 stated as unknown	99 no documentation in coroner file
53 Site	1 victim residence 2 victim, secondary residence 3 relative residence, unspec 4 grandparent residence 5 other relative residence 6 neighbor residence 7 sitter, daycare, license not specified 8 sitter, daycare, licensed 9 sitter, daycare, unlicensed 10 friend residence 11 hotel/motel 12 community association pool/spa, distance not specified 13 community association pool/spa, <100 ft 14 community association pool/spa, 100-500 ft 15 community association pool/spa, > 500 ft 16 public park 17 ocean 18 river/stream 97 other 98 stated as unknown 99 no documentation in coroner file				
54 LiveOwn	___ (yr)	98 stated as unknown	99 no documentation in coroner file		
55 LiveCld	___ (yr)	96 Not applicable	98 stated as unknown 99 no documentation coroner		
56 Routin	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file	
Routine	Text				
57 LocWhy	1 visiting 2 attending party 3 entered yard uninvited 4 being babysat 96 not applicable 97 other 98 stated as unknown				

LocOther	99 no documentation in coroner file Text			
58 HowOft	1 never before 2 occasionally 3 frequently 4 daily 96 not applicable 97 other 98 stated as unknown 99 no documentation in coroner file			
59 HowLong	1 < 15 minutes 2 15-60 minutes 3 1-6 hours 4 6-24 hours 5 >24 hours 96 not applicable 97 other 98 stated as unknown 99 no documentation in coroner file			
60 PoolOft	1 never 2 occasionally 3 frequently 4 daily 97 other 98 stated as unknown 99 no documentation in coroner file			
61 NoLoc	___ (Number)	97 (enter if text)	98 stated as unkn	99 no documentation
NoLocT	Text			
NoAdl	___ (Number)	97 (enter if text)	98 stated as unkn	99 no documentation
NoAdtT	Text			
NoChd	___ (Number)	97 (enter if text)	98 stated as unkn	99 no documentation
NoChdT	Text			
NoAdtWa	___	96 not applicable	98 stated as unknown	99 no documentation in coroner file
NoAdtNot	___	96 not applicable	98 stated as unknown	99 no documentation in coroner file
NoTe	___			
NoTeWa	___	96 not applicable	98 stated as unknown	99 no documentation in coroner file
NoTeNot	___	96 not applicable	98 stated as unknown	99 no documentation in coroner file
NoChd	___			
NoChdWa	___	96 not applicable	98 stated as unknown	99 no documentation in coroner file
NoChdNot	___	96 not applicable	98 stated as unknown	99 no documentation in coroner file
NoInf	___			
NoInfWa	___	96 not applicable	98 stated as unknown	99 no documentation in coroner file
NoInfNot	___	96 not applicable	98 stated as unknown	99 no documentation in coroner file
62 ADOH	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
63 UIA	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
UID	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
64 Float	1 not in use 2 yes, wearing at time of incident 3 had been wearing but not on at time of incident 4 usually wears them but not on at time of incident 97 other 98 stated as unknown			

	99 no documentation in coroner file			
65 Posit	1 floating, face down 2 floating, face up 3 floating, unspec 4 at bottom of pool/spa 5 in water on top of pool cover 97 other 98 stated as unknown 99 no documentation in coroner file			
TopDpt	___ (inches)	96 Not applicable	98 stated as unkn	99 no documentation
PosOther	Text			
66 WhrFnd	1 deep end 2 shallow end 96 not applicable 97 other 98 stated as unknown 99 no documentation in coroner file			
67 IncCom	Text			

## Water Source Information

68 Body	1 pool, in-ground 2 pool, above ground, unspec 3 pool above ground, permanent?/seme-permanent 4 pool above ground, large inflatable 5 pool above ground, inflatable kiddie pool 6 pool above ground, child wading pool 7 spa/hot tub, unspec 8 spa/hot tub, free standing above ground 9 spa/hot but, free standing in ground 10 spa/hot tub, attached to pool 11 decorative pond 12 fountain 13 bathtub 14 toilet 15 bucket 16 natural lake/pond 17 stream/river 18 ocean 19 in ground wading pool 20 pool, unspec 97 other 98 stated as unknown 99 no documentation in coroner file				
69 WaDpth	1 under 18 in 2 18-48 in 3 over 4 ft 97 other 98 stated as unknown 99 no documentation in coroner file				
70 Steps	1 no	2 yes	96 not applicable	98 stated as unkn	99 no documentation
71 Cover	1 no	2 yes	96 not applicable	98 stated as unkn	99 no documentation
72 Clarity	1 clear 2 cloudy 3 muddy 4 dirty 5 green 97 other 98 stated as unknown 99 no documentation in coroner file				
ClarOth	Text				
73 Temp TempT	___ ___ ___ (fahrenheit)	997 other	998 stated as unkn	999 no documentation	
	Text				
74 Jets	1 no	2 yes	96 not applicable	98 stated as unkn	99 no documentation
75 Obscur	1 no	2 yes	96 not applicable	98 stated as unkn	99 no documentation
76 Bodies	1 detached spa/hot tub 2 swimming pool 3 pond 4 wading pool 5 attached spa 6 attached pool				



	97 other				
	98 stated as unknown				
	99 no documentation in coroner file				
BodOth	Text				
77 Entrap	1 no	2 yes	96 not applicable	98 stated as unkn	99 no documentation
78 UseOf	1 never/rarely				
	2 occasionally				
	3 frequently/regular use				
	98 stated as unkn				
	99 no documentation				
79 UseNot	1 no	2 yes	96 not applicable	98 stated as unknown	99 no documentation in coroner file
UseChd	1 no	2 yes	96 not applicable	98 stated as unknown	99 no documentation in coroner file
UsePrior	1 no	2 yes	96 not applicable	98 stated as unknown	99 no documentation in coroner file
Used	1 no	2 yes	96 not applicable	98 stated as unknown	99 no documentation in coroner file
UseLate	1 no	2 yes	96 not applicable	98 stated as unknown	99 no documentation in coroner file
80 Toys	1 no	2 yes	98 stated as unknown	99 no documentation coroner	
ToyDesc	Text				
81 Object	1 no	2 yes	98 stated as unknown	99 no documentation coroner	
ObjDesc	Text				
82 YrBuilt	___ (last 2 digits of yr)		998 stated as unknown	999 no documentation coroner	
83 Bef98	1 no	2 yes	98 stated as unknown	99 no documentation coroner	
84 Unusua	1 no	2 yes	98 stated as unknown	99 no documentation coroner	
UnusDes	Text				
85 Code	1 no	2 yes	98 stated as unknown	99 no documentation coroner	
CodeDesc	Text				
86 PDAct	1 no	2 yes	98 stated as unknown	99 no documentation coroner	
PDActD	Text				
87 OwnAct	1 no	2 yes	98 stated as unknown	99 no documentation coroner	
OwnActD	Text				
88 WaCom	Text				

## Barrier/Access Information

89 PropFen	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
FenType	Text				
FenHt	___	(inches)			
FenMain	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
FenDeter	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
FenDam	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
FenBrok	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
FenMiss	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
FenGap	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
FenOpen	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
FenClim	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
90 Access	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
Door, unspec	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
HingDoor	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
HingOpen	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
HingLock	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
HingAlrm	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
SlidDoor	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
SlidOpen	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
SlidLock	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
SlidAlrm	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
Wind	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
DogDr	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GHing	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GHingOp	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GHingLo	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GHingAl	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GSlid	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GSlidOp	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GSlidLo	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GSlidAlm	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GWind	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
GDogDr	___		96 Not applicable	98 stated as unknown	99 no documentation coroner
91 IsolFen	1 no	2 yes, completely separates	98 stated as unknown	3 yes, doe not separate from all entrances	99 no documentation coroner
IFTType	Text				
IFenHt	___	(inches)			
IFenM	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IFenDe	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IFenDa	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IFenBr	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IFenMi	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IFenG	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IFenCl	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IFenFur	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IFenO	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
92 IsoGate	___	(number)			
IGOpen	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IGSelf	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IGWork	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
IGLock	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
93 OthGate	___	(number)			

OGOpen	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
OGSelf	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
OGWork	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
OGLock	1 no	2 yes	96 Not applicable	98 stated as unknown	99 no documentation coroner
94 SafCov	1 no	2 yes	98 stated as unknown	99 no documentation coroner	
SafCovD	1 safety cover, automatic, on 2 safety cover, automatic, off 3 safety cover, manual, on 4 safety cover, manual, off 5 safety cover, off 98 stated as unknown 99 no documentation in coroner file				
SafNet	1 no	2 yes, in use	3 yes, not in use	98 stated as unk	99 no documentation coroner
AlmDr	1 no 2 yes, unspec 3 yes, functional 4 yes, disabled 5 yes, not working 96 not applicable 98 stated as unknown 99 no documentation in coroner file				
AlmGate	1 no 2 yes, unspec 3 yes, functional 4 yes, disabled 5 yes, not working 98 stated as unknown 99 no documentation in coroner file				
AlmPool	1 no 2 yes, unspec 3 yes, functional 4 yes, disabled 5 yes, not working 98 stated as unknown 99 no documentation in coroner file				
AlmChd	1 no 2 yes, unspec 3 yes, functional 4 yes, disabled 5 yes, not working 98 stated as unknown 99 no documentation in coroner file				
BarOth	Text				
95 Acces1	1 brought into water area by other person 2 followed another person into pool/spa area 3 direct access/no barriers, unspec 4 direct access/no barriers, sliding door open 5 direct access/no barriers, hinged door open 6 direct access/no barriers, isolation fence gate propped open/left open 7 direct access/no barriers, safety cover/net was removed 8 direct access/no barriers, window open 9 direct access/no barriers, no mention o access but was outside in area of pool 10 direct access/no barriers, other 11 victim breached safety barrier (s), unspec 12 victim breached safety barrier (s), sliding door closed but unlatched or unlocked 13 victim breached safety barrier (s), hinged door closed but unlatched or unlocked				

14 victim breached safety barrier (s), isolation fence gate closed but unlatched  
 15 victim breached safety barrier (s), isolation fence gate closed but unlocked  
 16 victim breached safety barrier (s), door alarm did not sound/was disarmed  
 17 victim breached safety barrier (s), child unlocked hinged door from house  
 18 victim breached safety barrier (s), child unlocked sliding door from house  
 19 victim breached safety barrier (s), child unlocked gate  
 20 other  
 21 not sure if door left open or unlocked  
 22 other contributing conditions  
 98 stated as unknown  
 99 no documentation in coroner file

#### Acces2

1 brought into water area by other person  
 2 followed another person into pool/spa area  
 3 direct access/no barriers, unspec  
 4 direct access/no barriers, sliding door open  
 5 direct access/no barriers, hinged door open  
 6 direct access/no barriers, isolation fence gate propped open/left open  
 7 direct access/no barriers, safety cover/net was removed  
 8 direct access/no barriers, window open  
 9 direct access/no barriers, no mention of access but was outside in area of pool  
 10 direct access/no barriers, other  
 11 victim breached safety barrier (s), unspec  
 12 victim breached safety barrier (s), sliding door closed but unlatched or unlocked  
 13 victim breached safety barrier (s), hinged door closed but unlatched or unlocked  
 14 victim breached safety barrier (s), isolation fence gate closed but unlatched  
 15 victim breached safety barrier (s), isolation fence gate closed but unlocked  
 16 victim breached safety barrier (s), door alarm did not sound/was disarmed  
 17 victim breached safety barrier (s), child unlocked hinged door from house  
 18 victim breached safety barrier (s), child unlocked sliding door from house  
 19 victim breached safety barrier (s), child unlocked gate  
 20 other  
 21 not sure if door left open or unlocked  
 22 other contributing conditions  
 96 not applicable  
 98 stated as unknown  
 99 no documentation in coroner file

#### Acces3

1 brought into water area by other person  
 2 followed another person into pool/spa area  
 3 direct access/no barriers, unspec  
 4 direct access/no barriers, sliding door open  
 5 direct access/no barriers, hinged door open  
 6 direct access/no barriers, isolation fence gate propped open/left open  
 7 direct access/no barriers, safety cover/net was removed  
 8 direct access/no barriers, window open  
 9 direct access/no barriers, no mention of access but was outside in area of pool  
 10 direct access/no barriers, other  
 11 victim breached safety barrier (s), unspec  
 12 victim breached safety barrier (s), sliding door closed but unlatched or unlocked  
 13 victim breached safety barrier (s), hinged door closed but unlatched or unlocked  
 14 victim breached safety barrier (s), isolation fence gate closed but unlatched  
 15 victim breached safety barrier (s), isolation fence gate closed but unlocked  
 16 victim breached safety barrier (s), door alarm did not sound/was disarmed  
 17 victim breached safety barrier (s), child unlocked hinged door from house  
 18 victim breached safety barrier (s), child unlocked sliding door from house  
 19 victim breached safety barrier (s), child unlocked gate  
 20 other

21 not sure if door left open or unlocked  
 22 other contributing conditions  
 96 not applicable  
 98 stated as unknown  
 99 no documentation in coroner file

Access	Text
96 Exit	1 no    2 yes    96 not applicable    98 stated as unk    99 no documentation coroner
97 Room	1 Kitchen 2 Dining room 3 Living room 4 Family room/den 5 Bedroom 6 Garage 7 Bathroom 96 Not applicable 97 Other 98 stated as unknown 99 no documentation in coroner file
98 ParBar	Text
99 AccExpl	Text
100 BarCom	Text

## Classes/Emergency Preparedness and Response

101 Equip	1 no 2 yes 3 yes, info on condition or if functional 98 stated as unknown 99 no documentation in coroner file
Equip1	Text
102 Phone	1 no 2 yes 3 yes, information on condition or if functional 98 stated as unknown 99 no documentation in coroner file
Phone1	Text
103 Found	1 supervisor 2 another adult (>12 yr) 3 child 97 other 98 stated as unknown 99 no documentation in coroner file
FndOth	Text
104 Pulled	Text
PullSc	1 on scene 2 outside 98 stated as unk 99 no documentation coroner
105 Delay	1 no 2 yes 98 stated as unknown 99 no documentation in coroner file
106 EstTime	___ (minutes)
EstTimeP	___ (minutes)
107 911	1 no 2 yes, unspec 3 yes, from incident site 4 yes, not from incident site 98 stated as unknown 99 no documentation in coroner file
911Who	Text
911What	Text
108 911Prob	1 could not get through 2 put on hold 3 language barrier 4 issues with cell phone 5 more than one of the above 96 not applicable 97 other 98 stated as unknown 99 no documentation in coroner file
911Oth	Text

109 CPRWho	1 supervisor 2 relative/friend/neighbor at incident location 3 bystander at incident site 4 neighbor, not at incident location 5 police 6 paramedic 7 parent 97 other 98 stated as unknown 99 no documentation in coroner file
110 CPRTIME	1 immediately/within minutes 2 delayed 3 not until emergency response got to scene 97 other 98 stated as unknown 99 no documentation in coroner file
CPRoth	Text
111 CRPCert	1 no 2 yes 3 had taken CPR, certification not specified 4 received instructions on phone 96 not applicable 98 stated as unknown 99 no documentation in coroner file
112 SupCPR	1 no 2 yes 98 stated as unknown 99 no documentation in coroner file
113 SupSwim	1 no 2 yes 98 stated as unknown 99 no documentation in coroner file
114 SwimLes	1 no 2 yes, no info on type 3 yes, formal 4 yes, informal 5 water familiarity class with adult 98 stated as unknown 99 no documentation in coroner file
SwimYes	Text
115 ChdWat	1 afraid 2 did not like water 3 was in pool often 4 liked playing in pool 97 other 98 stated as unknown 99 no documentation in coroner file
ChdWOth	Text
116 Swim	1 no 2 yes 3 has some ability

98 stated as unknown  
 99 no documentation in coroner file

117 SwimAbl      Text

118 ChdOut	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
ChdLat	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
ChdFnd	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
ChdFall	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
ChdPool	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
ChdOpen	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
ChdJump	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
ChdOth	1 no	2 yes	98 stated as unknown	99 no documentation in coroner file
ChdCom	Text			

119 EMSCom      Text



## **Appendix 4**

### **Drowning Surveillance and Research Tools and Instruments Reviewed for This Project**

## **DROWNING SURVEILLANCE AND RESEARCH TOOLS AND INSTRUMENTS REVIEWED FOR THIS PROJECT**

- Submersion Incident Report for All Drowning or Near Drowning Incidents in Riverside County - Injury Prevention Services, Riverside County Department of Public Health
- Submersion Incident Report for All Drownings or Near Drownings – San Bernardino Department of Public Health
- Report of Drowning or Near-drowning in Arizona – 2007 (Maricopa) – Arizona Department of Health Services
- Orange County Fire Authority Incident Reporting System (completed for immersion incidents victims under 15 years of age – Orange County Fire Authority
- Childhood Drowning Study Medical Examiner Case Abstraction Form – NICHD (Ruth Brenner)
- Investigation Guideline Swimming Pools, Span and Hot Tubs (Submersions) – Consumer Product Safety Commission
- Data Abstract Form for Drowning Case Files Analysis of Florida Pool Drowning Deaths in Young Children – Florida Department of Health
- Drowning Data Collection Form for Drowning Among Southeast Asians and Latinos in California's Central Valley Report – California Department of Health Services
- CPSC Swimming Pool Study Questionnaire used for 1987 national telephone survey – CPSC
- County of Orange, California Health Care Agency Immersion Surveillance Record and Childhood Injury Prevention Program Immersion Incident Referral form used for Immersion Surveillance Summary (1991 and 1991-1992)
- Submersion Report Form – Texas Department of State Health Services Injury Epidemiology and Surveillance Program
- Drowning and Near Drowning Investigation Tool – New York State Department of Health Bureau of Community Environment Health and Food Protection (public pools)
- Queensland Australia - Police Report of Death to a Coroner (Drowning/water-related Death – Queensland
- Childhood Immersion Incident Reporting – Ideas for Data Collection (draft) – Orange County Drowning Prevention
- FCANS Collection Form – EPIC
- Child Death Review Case Report – National MCH Center for Child Death Review
- British Columbia Coroners Service - Child Death Review Unit 2007 Drowning Protocol
- BC Coroners Service Child Death Investigation Protocol

## **Appendix 5**

### **Pool and Spa Drownings in OC, 2000-2007, Children Age 1-4 Availability of Data in Orange County Coroner Records**

**Pool and Spa Drownings in OC, 2000-2007, Children Age 1-4**  
**Availability of Data in Orange County Coroner Records**

N = 46 deaths (45 incidents)

<b>INVESTIGATION INFORMATION</b>	
<b>Item</b>	<b># and % of cases for which data were available in coroner files</b>
Coroner case notes in file	46 (100%)
Police report in file	21 (46%)
CPS report in file	16 (35%)
Coroner conducted scene investigation	16 (35%)
Police responded to scene	45 (98%)
Transported by medics	45 (98%)
Known that pictures were taken at scene	24 (52%)
Documented that coroner took pictures	10/16 (63%)
Documented that police took pictures	20/45 (44%)
Documented that diagram of scene was done	4 (9%)
<b>CHILD INFORMATION</b>	
<b>Item</b>	<b># and % of cases for which data were available in coroner files</b>
Child's age and birthdate	46 (100%)
Gender	46 (100%)
Ht, Wt	46 (100%)
Race/Ethnicity	46 (100%)
Address	46 (100%)
Time, cause and place of death	46 (100%)
Whether or not transferred	46 (100%)
Activity of child when last seen	46 (100%)
Type of clothing worn by victim when found	35 (76%)
Notes on circumstances before incident	45 (98%)
Medical History	18 (39%)
Child's abilities related to opening, unlocking Doors	10 (22%)
<b>SUPERVISION INFORMATION</b>	
<b>Item</b>	<b># and % of cases for which data were available in coroner file</b>
Primary person/s responsible for supervision of child	46 (100%)
Supervisor ability to speak English	41 (89%)
If not parent, how often responsible for supervising child	5/12 (42%)
If supervisor not parent- where was parent at the time	10/12 (83%)
Where victim last seen by supervisor	46 (100%)
Information if supervisor had been drinking	14 (30%)

Information if supervisor had been using drugs	13 (28%)
Estimated time since child last seen by supervisor	37/45 * (82%) * 1 case -mom also drowned
Where was supervisor at time of incident	46 (100%)
Information on where supervisor thought child was	43 (93%)
Information on why supervisor started looking for child	41 (89%)
When noticed child missing where did they look first	37 (80%)
Supervisor activity at time of incident	42 (91%)
Information if supervisor thought someone else was watching child	43 (93%)
Information if adult supervisor asked other person to watch child – excludes child supervisors and cases with only one adult and child	2/34 (6%)
Information on anyone else seeing victim after supervisor saw child	38 (83%)

### FAMILY / SOCIAL INFORMATION

Item	# and % of cases for which data were available in coroner file
Household size	37 (80%)
Information if mother in household	45 (98%)
Information if father in household	43 (93%)
Information on siblings	42 (91%)
If several families in HH, know each other well	15/22 (68%)
Information if everyone in household speaks English	29 (63%)
Marital status of parent with whom child lives	43 (93%)
Information if parent who not living with child	35 (76%)
CAR report made	38/45 (84%)
Prior Child Abuse Reports for family	46 (100%)
Information if there was open CPS case at time of incident	45 (98%)
Information on whether or not mother had history of alcohol abuse	1 (2%)
Information on whether or not mother had history of drug abuse	2 (4%)
Information on whether or not father had history of alcohol abuse	1 (2%)
Information on whether or not father had history of drug abuse	1 (2%)
Information on whether or not mother had crime history	39 (85%)
Information on whether or not father had crime history	38 (83%)
Information on prior police calls to residence	3 (7%)
Information on violations (as related to child/children, ie car seat ticket	2 (4%)

### INCIDENT INFORMATION

Item	# and % of cases for which data were available in coroner file
Incident date, time, location	46 (100%)
Type of dwelling (excludes community pools)	42/42 (100%)
Information if rental	16 (35%)

Information on whether or not HUD	2 (4%)
Site of Incident	46 (100%)
Length of time owner/leasee lived at incident address	10/42 (24%)
Length of time victim lived at incident address	13/34 (38%)
Information if non routine or not ordinary circumstances	33 (72%)
If not at child's home, specify why was child at location	19/19 (100%)
If not child's home, how often child at incident location	10/19 (53%)
If not child's home, information on amount of time at location prior to incident	16/21 (76%)
How often did child use this pool/spa	14 (30%)
Number of people at location when incident occurred	37 (80%)
Information if alcohol and/or drug use evident at time of event	27 (59%)
Information if adults appeared under the influence of alcohol	27 (59%)
Information if adults appeared under the influence of drugs	25 (54%)
Information if use of floaties/water wings/flotation device	43 (93%)
Position of child when found	46 (100%)
If in-ground pool, information on if found in deep or shallow end	22/36 (61%)
<b>WATER SOURCE INFORMATION</b>	
<b>Item</b>	<b># and % of cases for which data were available in coroner file</b>
Type of body of water where incident occurred	46 (100%)
Water depth (deepest depth)	41 (89%)
Were there steps into pool	14/39 (36%)
Information on water clarity	25 (54%)
Information on water temperature	4 (9%)
If spa, were jets on or off	5/7 (71%)
If spa, was clarity obscured or not because of jets	3/5 (60%)
Information on other bodies of water in same yard	17 (37%)
How often is pool/spa used	25 (54%)
Was pool used day of event	32 (70%)
Was pool used by child day of event	32 (70%)
Information if toys or other objects in water	25 (54%)
Information if other toys or objects near pool	16 (35%)
Information if pool built prior to 1998	3/44 (7%)
If pool/spa were there any unusual characteristics, features	27/43 (63%)
Information if code violations	2 (4%)
Information if any actions taken by public agency after event	8 (17%)
Information if any actions taken by parents/owners or pool after	11 (24%)

<b>BARRIER / ACCESS INFORMATION</b>	
<b>Item</b>	<b># and % of cases for which data were available in coroner file</b>
Information if property line fence or not	9/39 (23%)
Information on property fence type	3/39 (8%)
Information on height of perimeter fence	2/39 (5%)
Information on condition of perimeter fence	2/39 (5%)
Information if direct access from house /garage to pool/spa	46 (100%)
Doors/window (none had information on all access points from house but often there was information related to a specific door if that was how child gained access to water)	
Information if fence around the pool	39/39 (100%)
Information on fence type (not community pools)	11/15 (73%)
Information on fence height	5/15 (33%)
Information on condition of fence	9/19 (47%)
Information on fence gate (not community pools)	11/15 (83%)
Information on other gates (not part of isolation fence)	10/39 (26%)
Comments re: barriers / alarms	15/39 (38%)
Information on how victim accessed pool/spa	45 (98%)
Information if child exited house from usual exit to the pool	22/33 (67%)
Information on what room child exited house	17/31 (55%)
Comments related to supervisor thinking barriers adequate or child could not access water	17/41 (41%)
Explanation of how victim got through barrier(s)/accessed water	37/40 (93%)
<b>CLASSES / EMERGENCY PREPAREDNESS AND RESPONSE</b>	
<b>Item</b>	<b># and % of cases for which data were available in coroner file</b>
Information on rescue equipment near water	1 (2%)
Information on phone near pool/spa	3 (7%)
Who found child in water	45 (98%)
Who pulled child from water	46 (100%)
Delay or not in pulling child from pool	42 (91%)
Information on estimated time of submersion	12 (26%)
Information on 911 called	46 (100%)
Information on who initiated CPR	38 (83%)
Information on estimated time to initiate CPR	38 (83%)
Information on supervisor ever take CPR	1 (2%)
Information if supervisor knew how to swim	2 (4%)
Information if victim ever took swim lessons or water safety class	9 (20%)
Comments on child's familiarity (attitude, comfort level) with water	12 (26%)
Information related to child's swimming ability	27(59%)
Comments on previous risk behavior of child	14 (30%)

## **Appendix 6**

### **Expanded Information Pool and Spa Drownings in OC**



**Pool and Spa Drownings in OC, 2000-2007, Children Age 1-4**  
**Availability of Data in Orange County Coroner Records**  
N = 46 deaths (45 incidents)

<b>CHILD INFORMATION</b>	
<b>Item</b>	<b>Details on variables</b>
Child's age	1 yr = 13 2yr = 17 3 yr = 9 4 yr = 7
Gender	Male = 31 Female = 15
Race/Ethnicity	NH White = 26 Hispanic = 17 API = 3
Address	Live in OC, incident in OC = 36 Live out of OC, incident in OC = 3 Live out of OC, incident out of OC = 7
Time, cause and place of death	Died within 2 hr after found = 21 Died 2-24 hr after found = 11 (3 out of OC) Died >24 after found = 14 (4 out of OC)
Transfer from ED to another hospital	No transfer = 27 Transfer = 19
Activity of child when last seen	Swimming/playing in pool/spa = 7 Playing outside = 9 Watching tv/video = 5 Sleeping = 3 Playing inside = 8 Going in/out of house, not to yard with pool = 2 Going in/out of garage (where they live) to area of pool = 1 Inside, unspecified = 7 Outside, unspecified = 1 Other – 3 From garage to yard, following parents who were arguing Was inside, going to bathroom Was removed from car seat and out of car while parents unloaded groceries and took them into house
Type of clothing worn by victim when found	Swimsuit = 10 Day clothing = 18 Pajamas = 3 None = 1 Underwear/diaper = 2 Other = 1 (Going to bathroom) No information = 11
Medical History	Healthy = 17 Disability, other = 1 No information 18
Child's physical abilities that may be relevant to child gaining access to water	Only crawl = 1 Able to unlock doors = 1 Able to open doors = 5 Other = 5 Able to open kitchen door (2) Able to climb Able to open gate Active child No information = 36

Item	
Primary person/s responsible for supervision of child	Mother = 23 Father = 7 Sibling 11-18 yr = 4 Grandparent/s = 6 (Grandmother 5, both 1) Other adult female = 2 (Aunt 1, aunt's friend 1) Both parents = 4
Supervisor ability to speak English	Yes = 33 Yes, limited = 1 No, Spanish = 6 No, other = 1 No information = 5
If not parent, how often was supervisor responsible for child	Several times a week = 4 Daily = 1 No information = 7 Not applicable = 34
If supervisor not parent- where was parent at the time	Inside residence = 2 Not at location, unspec = 1 Not at location, at work = 2 Not at location, at home = 1 Not at location, out of town = 1 Not at location, other = 3 No information = 2 Not applicable = 34
Where victim last seen by supervisor	Outside near water = 13 Outside in pool/spa = 5 On edge of pool/spa = 1 In vicinity of pool/spa = 4 In vicinity of pool/sp, gated = 3 In/out or outside not near water = 6 Outside backyard not near water = 1 Front yard without direct access = 2 In/out of house, not to water area = 2 Outside, not in vicinity of water = 1 Inside = 27 Inside residence = 26 In garage or living room = 1
Information if supervisor had been drinking	No = 13 Yes = 1 No information = 32
Information if supervisor had been using drugs	No = 13 No information = 33
Estimated time since child last seen by supervisor	< 5 min = 5 5 min = 10 8-10 min = 7 15 min = 6 16-20 min = 6 30 min = 2 7 hr = 1 (Adults and children asleep for night) NA = 1 (mom also drowned) No information = 8
Where was supervisor at time of incident	Inside residence = 35 Supervisor inside, child outside = 10 (6 children were in pool or in vicinity of pool) Supervisor inside, child inside = 25

	<p>In water with victim = 2</p> <p>Outdoors, victim within sight = 1</p> <p>Outdoors, victim out of sight = 3</p> <p>Inside pool/spa area, victim in sight = 2</p> <p>Inside pool/spa area, victim not in sight = 2</p> <p>One in house, other out near car = 1</p>
Information on where supervisor thought child was	<p>Narrative (n=43) indicated that the information was similar to where the child was last seen but often included more detail on the specific location (i.e. room of the house) or activity of the child at the location (i.e napping, playing with other children, watching TV either alone or with others)</p>
Information on why supervisor started looking for child	<p>Narrative (n=41) indicated some of the reasons were:</p> <p>Looked for child when came home</p> <p>Went to get child for lunch, etc</p> <p>After finished chore, task, phone call, bathroom – checked on child</p> <p>Routine check on child</p> <p>Had not heard noise/activity</p> <p>Had feeling/Something caught attention</p> <p>Called – no answer</p> <p>Someone asked about child</p> <p>Noticed child not where last seen</p> <p>Seen in pool through window or found by someone else</p>
When noticed child missing where did they look first	<p>Of the 26 last seen inside the home:</p> <p>Looked out front = 4</p> <p>Looked inside = 8</p> <p>Looked in backyard = 9 (5 looked in backyard after noticing something open( ie shutters, slider) or saw child in pool through window)</p> <p>No information = 5</p>
Supervisor activity at time of incident	<p>Asleep = 4</p> <p>1 fell asleep on couch, 1 asleep for night, 2 napping with victim</p> <p>Distracted, no info = 1</p> <p>On phone = 5</p> <p>Watching tv = 2</p> <p>Preparing meal = 3</p> <p>Attending to another child = 3</p> <p>Working/cleaning in house = 2</p> <p>Talking with others = 5</p> <p>In bathroom = 4</p> <p>Other = 13</p> <p>Cleaning broken glass,</p> <p>sitting on steps with 1 yo daydreaming</p> <p>feeding cats</p> <p>in bedroom with BF applying lotion involved with garage sale</p> <p>went in house to get float ring</p> <p>briefly walked away from spa</p> <p>sitting on pool chair taking off band-aid</p> <p>unloading car</p> <p>lost sight of child</p> <p>left child in living room for few min</p> <p>went outside to get ice cream</p> <p>parents arguing about drugs, affair</p> <p>No information = 4</p>
Information if supervisor thought someone else was watching child	<p>No = 29</p> <p>Yes = 4</p> <p>Assumed OK because adults = 3</p> <p>Assumed OK because with children = 4</p> <p>Possibly thought other adult keeping eye on child = 3</p> <p>No information = 3</p>
Information if supervisor asked other to watch child	<p>Yes = 2 (However, other persons did not acknowledge requests)</p> <p>No information = 44</p>

Item	
Household size (not including child)	1 = 1, 2 = 7, 3 = 8, 4 = 6, 5 = 4 6 = 4, 7 = 3, 8 = 1, 9 = 2, 15 = 1 No information = 9 Two parent households = 31 Single parent = 12 No information = 3
Information if mother in household	No = 3 Yes = 42 No information = 1
Information if father in household	No = 12 Yes = 31 No information = 3
Information on siblings	0 = 10, 1 = 14, 2 = 9, 3 = 6, 4 = 3 No information = 4
If several families in HH, know each other well	Related = 13 Unrelated, don't know well = 1 Related & unrelated = 1 No information = 7 Not applicable = 24
Information if everyone in household speaks English	Yes = 21 No, Spanish = 7 No, Vietnamese = 1 No information = 17
Marital status of parent with whom child lives	Married to each other = 2 Together, marriage status unspec or cohabitating = 26 Single = 1 Separated, divorced = 7 With someone, other than father of child = 4 Other = 2 No information = 3
Information if parent who not living with child	Little or no contact = 2 Joint custody = 3 Occasional contact = 1 Not applicable = 29 Other = 1 No information = 11
CAR report made	
Prior Child Abuse Reports for family	Yes = 11 1 for child 4 for child and sibling 2 for sibling 3 for parent as minor 1 for other as perpetrator No = 35
Information if there was open CPS case at time of incident	Yes = 2 Placement hrs earlier with grandmother Parents have custody, dad currently in jail No = 43 No information = 1
Information on whether or not mother had crime history	No = 30 Yes = 9 No information = 7
Information on whether or not father had crime history	No = 28 Yes = 10 No information = 8

Item	
Incident date, time, location	Feb = 3, March = 4, April = 4, May = 9, June = 5 July = 8, Aug = 3, Sept = 4, Oct = 2, Nov = 3 2000 = 4, 2001 = 7, 2002 = 6, 2003 = 3 2004 = 4, 2005 = 11, 2006 = 5, 2007 = 6 7-9am (2), 9am-noon (4), noon-3pm (12), 3-6pm (19), 6-9pm (9)
Type of dwelling	Single family residence = 39 (one family living in garage) Apartment = 3 NA (community pool/spa) = 4
Information if rental	
Information on whether or not HUD	1 case involving 2 deaths was HUD housing – parents and child lived with grandparents
Site of Incident	Victim residence = 28 Victim secondary residence = 2 Grandparent = 5 Other relative = 3 Neighbor = 1 Friend = 1 Community Association = 4 Other = 2 Parents' vacant house while being remodeled Residence where mother babysits infant
Length of time owner/leasee lived at incident address	0 = 1 Less than 1 yr = 3 1-8 yr = 6 No information = 32
Length of time victim lived at incident address	1 month or less = 6 6-11 mo = 3 1-2 yr = 4 Not applicable = 11 No information = 22
Information if non routine or not ordinary circumstances	No = 17 Yes = 16 No information = 13
If not at child's home, specify why was child at location	Visiting = 4 Attending party = 3 Entered yard uninvited = 1 Being babysat = 1 Swimming at community pool = 4 Other = 6 Joint custody & with father = 3 At vacant house being remodeled = 1 With mother when babysitting = 1 CPS placement = 1 Not applicable = 27
If not child's home, how often child at incident location	Never before = 2 Occasionally = 1 Frequently = 5 Daily = 2 No information = 9 Not applicable = 27
If not child's home, information on amount of time at location prior to incident	<15 min = 3 15-60 min = 4 1-6 hr = 6 6-24 hr = 2 >24 hr = 1 No information = 5 Not applicable = 25

How often did child use this pool/spa	Never = 8 Occasionally = 2 Frequently = 3 Daily = 1 No information = 32
Number of people at location when incident occurred, excluding child	1 = 5 2 = 6 4 = 6 5 = 2 6 = 3 7-10 = 5 >20 = 3 No information = 9 2 stated numerous people at site
Information if alcohol and/or drug use evident at time of event	No = 23 Yes = 3 Other = 1 No information = 19
Information if adults appeared under the influence of alcohol	No = 27 No information = 19
Information if adults appeared under the influence of drugs	No = 25 No information = 21
Information if use of floaties/water wings/flotation device	Not in use = 34 Wearing = 1 Had been wearing earlier before incident = 2 Usually wears them but not on at time of incident = 6 No information = 3
Position of child when found	Floating face down = 21 Floating face up = 4 Floating, unspec = 9 At bottom of pool/spa = 1 On top of soft cover = 1 Other = 2
If in-ground pool, information on if found in deep or shallow end	Deep end = 13 Shallow end = 8 Other = 1 No information = 14 Not applicable = 10

Item	
Type of body of water where incident occurred	In-ground pool = 36 Above ground pool = 2 Spa/hot tub = 7 In ground wading pool = 1
Water depth (deepest depth)	18-48 in = 7, Over 4 ft = 34 No information = 5
Information on water clarity	Clear = 14, Dirty = 3, Green = 8 No information = 21
Information on water temperature	
If spa, were jets on or off	On = 1, Off = 4
How often is pool/spa used	Never/rarely = 6, Occasionally = 1, Frequent/regular = 18 No information = 21
Was pool used day of event	No = 15, Yes = 17 No information = 14
Was pool used by child day of event	No = 20, Yes = 12 No information = 14
Toys or other objects in water	No = 6, Yes = 19 No information = 21
Other toys or objects near pool	No = 5, Yes = 11 No information = 30
Pool built prior to 1998	Yes = 2, No = 1 No information = 41 No applicable = 2 Above ground pools
If pool/spa were there any unusual characteristics, features	No = 26, Yes = 1 No information = 16 Not applicable = 3
Actions taken by public agency after event	Code enforcement inspection of house/pool = 3 (1 home condemned) Action taken to improve safety of pool = 4 pool drained & social services got funds to install fence FD educated on pool safety, CPR and contacted pool expert Removed children & not allowed to return until locks installed Follow up visit - advised to close gate
Actions taken by parents/owners of pool	Installed or will install locks or fence = 6 Will take CPR & have other children take swim lessons = 1 Moved = 3 (one evicted) Law suit = 2

Item	
Information if property line fence or not	Yes = 9 No information = 30 Not applicable = 7 (apt or community pool)
Direct access from house /garage to pool/spa	No = 14, Yes = 28 Not applicable = 4 (community pool)
Doors/window	None had information on all access points from house but often there was information related to a door if that was how child gained access to water
Fence around the residential pool/spa	No = 27 (Includes 2 above ground pools) Yes, complete = 10, Yes, not complete = 2 Not applicable = 7
Fence type (not community pool) Includes 3 apartments	Brick = 1, Chain link = 1, Mesh, permanent = 1, Metal = 2 (1 apt) Picket = 2, Slatted = 1, Tubular = 1, Wrought iron = 2 No information = 4 Not applicable = 4
Fence height	36 in = 1, 60 in = 2, 72 in = 2 No information = 10 Not applicable (no fence or community pool) = 31
Condition of fence	
Isolation fence gate	Open = 7, Not self closing = 7, Not working properly = 6, Not locked = 9 No information = 2 Not applicable (no fence or community pool) = 31 All events at community pools occurred after child brought into pool area by another person
Comments re: other barriers / alarms	No alarms = 2, House security alarm = 1, Net/cover off = 3 No cover = 6, No fence or cover = 2, Plastic cover on bottom = 1 No information = 24 Not applicable = 7 (apartment and community pools)
Information on how victim accessed pool/spa	Brought in by another = 9 Direct access, no barriers = 4 Playing outside Direct access, door open = 7 (5 sliding door) Direct access, isolation gate open = 7 Door unlatched, unlocked = 7(6 slider) Gate unlocked = 1 Child unlocked door = 2 Unknown if door open or unlocked = 7 (1 slider???) Other = 1 (4 yr old climbed fence to neighbor's pool) No information = 1
Information if child exited house from usual exit to the pool	No = 7, Yes = 15 Not applicable = 13 No information = 11
Information on what room child exited house	Kitchen = 4, Living room = 2, Family room/den = 5 Bedroom = 2, Garage = 3, Bathroom = 1 No information = 14 Not applicable = 15
Comments related to supervisor thinking barriers adequate or child could not access water	Few had specific comments related to adequacy but instead mentioned what is usually the case



Item	
Who found child in water	Supervisor = 29, Other adult = 14, Child = 2 No information = 1
Who pulled child from water	
Delay in pulling child from pool	No = 39, Yes = 3 No information = 4
Information on estimated time of submersion	
Information on 911 called	Yes = 44 (6 by neighbor or not from pool area) No = 1
Information on who initiated CPR	Supervisor = 12 Other at incident site = 17 Neighbor, not at incident site = 4 Police = 3 Medic = 2 No information = 8
Information on estimated time to initiate CPR	Immediately/within minutes = 26 Delayed = 5 Not until emergency response got to scene = 5 Other = 2 Mother attempted 1 Instructions on phone 1 No information = 8 Delay in initiation of CPR was not more common among non-English speaking patients.
Information if supervisor ever took CPR	
Information if supervisor knew how to swim	
Information if victim ever took swim lessons or water safety class	No 6, Yes, informal 2, Yes 1
Comments on child's familiarity (attitude, comfort level) with water	Did not like water 4, Was in pool often 3 Liked playing in pool 4 Other 1
Information related to child's swimming ability	Narrative documented that 17 parents said child did not know how to swim, 7 parents mentioned floaties (2 indicated could swim with floaties and 2 mentioned learning how with floaties), 1 child had 18 hours of lessons but had not gotten to point of putting head under water, 1 child was not a strong swimmer and could dog paddle, another child did not know how to swim but was "pool safe" because knew to go to edge No information 18
Comments on previous risk behavior of child	Documented action = 14 i.e. Fallen in before Entered pool or played in water Had tried but blocked by fence Took off floaties, went in too deep Told to stay away, knew to stay away Opened door or left house Not fallen in before 2 No Information 30

## **Appendix 7**

### **Orange County Coroner Case Scenarios and Patterns**

## **LOCATION OF CHILD RELATIVE TO WATER**

### **OC Coroner Drowning Deaths Children 1-4 years, 2000-2007**

#### **CHILD WHO DROWNED IN HOUSE AND ACCESSED POOL/SPA**

- 4 yr old, male watching TV with other children, father preparing dinner, 9 live in Spanish speaking household and 7 present (3 adults), men living in garage appear intoxicated, slider locked, accessed yard through kitchen door which he can unlock and open, clear water
- 4 yr old male watching tv, mom down for nap with 2 yr old, had lived at house for 3 weeks, had been in pool earlier in day, when came in mother closed but did not lock sliding door
- 3 yr old male playing with mom outside, both went in house and mom went to bathroom, not sure if she closed slider when came in house with child, when looked for child could not see slider open because of vertical blinds, broken hinge on gate of tubular fence surrounding pool, previous CAR for sibling when 22 months old when twice found standing in busy street
- 3 yr old male living with family at aunts for 2 months, grandmother put him on toilet in bathroom with hinged door that had access to pool area (either unlatched or unlocked), went to check on other child who had bumped head, 3 adults and 3 children at house at time
- 2 yr old female who was only child for parents who were from out of state, at family funeral reception with 60+ people present and back yard with pool was off limits, older children had been chased from pool area earlier, child going in and out from garage (people also gathered here) to inside, do not think sliding door leading from kitchen area to pool was locked
- 2 yr old female with brother and mother visiting in-laws (usually spend weekends here), 3 adults, 4 children at house, thought to be playing in house with older children who unknown to supervisor had left door from house open and propped open self closing, self latching gate to spa, children wards of court and placed with parents, dad currently in jail
- 2 yr old male at house with mother, aunt and grandmother who were preparing to go swimming, net taken off pool, mother changed him into swimsuit and child ran downstairs while she fed cats, she told him to wait for her but called down to aunt to let her know he was coming down, aunt had fallen asleep on couch, came downstairs and found slider open
- 2 yr old male lived in 1<sup>st</sup> floor apartment, taking nap with mother and 3 month old sibling, when mother woke child was gone, looked for him in upstairs apt and then saw him in pool, appears latch left off and gate was open
- 2 yr old female lived in house with 3 other unrelated families who did not know each other well, mother attending to 1 yr old while doing housework, thought child was with another woman in house (did not know her name), access point unknown but no fences or protection for pool
- 2 yr old male at uncles for BBQ (2 adults, 4 children at house at time), playing in house and older children had broken glass with ball, mother and aunt cleaning up glass, told children to play in other room and older child to put ball outside, older child either left sliding door open or unlocked, clear pool
- 2 yr old male being babysat by grandmother at victim's residence, slider left ajar to vent house

- 2 yr old male was down for nap with mother, mother went out to ice cream truck for older sister, when father went from garage to bring child outside, found him in pool, family lives with grandparents, 2 other adults and 3 mo old at house, partially fenced pool, child accessed pool from unused bedroom which had safety gate in front of door leading to pool, father found gate down when entered bedroom, green pool
- 2 yr old male, mother, 5 and 1 yr old siblings went to vacant house being remodeled, 5 yr old went swimming while mother played with other 2 in sandbox, came inside so 5 yr old could change upstairs, child stayed in family room, mother had closed sliding screen door which child opened, mother sitting on stairs with infant thinking about carpet, no phone in house
- 2 yr old male at house with parents and 2 older siblings, father preparing lunch, child had given father orange and later father looked out window and saw him in pool, gate to pool had been left open by older sibling, 1 hr after event deputy went to house and gate to pool area still open with a lot of family members arriving with children
- 2 yr old male with mom and older sister spending night at mom's boyfriend's, put to sleep on bed in back room, when boyfriend woke up noticed back door open and found child in pool, boyfriend said he locked slider before went to bed, has simple up/down locking lever, child had opened slider 3 times last night but thought he would not be able to unlock it
- 2 yr old female in backyard with 2 older sisters and mother, all went in house, mother left with sister and asked 12 yr old to change child, child was in living room watching tv and 12 yr old talking on phone, pool is partially fenced but entrance gate has screw missing, does not fully latch and child may have gotten through or exited through master bedroom which has direct access to pool
- 2 yr old male at grandparent's house with mother and siblings, thought to be locked in back bedroom with cousin (who also drowned) watching tv, mother who was pregnant and not feeling well was visiting with 2 friends, aunt went to pick up sibling from school, children left bedroom and went out through kitchen door which was usually left open so children could go in and out of yard, bike lock on picket fence gate but there was gap where children could get through, water green (HUD housing)
- 1 yr old (21 mo) female lives with mother and aunt at Vietnamese speaking grandparents' house (cousin also drowned, see above)
- 1 yr old (16 mo) male being babysat by 16 yr old stepsister which she did daily until parents got home from work, 2 other siblings also at house, sister had gotten him ready for bed and then went to bathroom, child opened sliding glass door which was either unlatched or unlocked, sister panicked – called boyfriend and dad before 911
- 1 yr old (1 yr, 6 days) male and sibling staying with father at grandparents for weekend visitation, other relatives visiting, (5 adults and several children), father still sleeping, grandmother brought child downstairs where he was in family room with other children who were watching TV while she prepared breakfast, child only crawls and wears helmet, mother who is MD felt very comfortable with leaving child at the house, slider usually kept locked but someone left it open when let dog out
- 1 yr old (17 mo) male with grandparents at his house, (4 adults and 1 teen cousin, unsure if siblings at house), alarm malfunctioned, slider closed but unlatched or unlocked

- 1 yr old (16 mo) male and mother had been playing in sandbox, brought in house to play with toys, mother forgot to lock hinged doors to backyard, free standing in-ground spa
- 1 yr old (12.5 mo) female, mom locking up house to take 4 older children to swim practice (swim competitively), on phone with father who is MD, spa attached to pool, child exited through sliding door not normally used for entrance and exit, all doors locked except for one slider left open for ventilation, covered by heavy shutters with strong magnets, believe magnet not closed and child went through, parents felt heavy shutters and glass door enough to prevent child from getting to pool
- 1 yr old (23 mo) female, baby sat (daily) by grandmother who also babysat 4 yr old cousin today, left child in living room for a few minutes, most likely slider left open since door was heavy and difficult to open, language barrier, grandmother hung up on 911 operator

#### **CHILD WHO DROWNED KNOWN TO BE IN VICINITY OF BODY OF WATER PRIOR TO INCIDENT**

- 4 yr old female at child's birthday party with 17 adults and 20+ children, sitting on edge of pool, mom went in house to get flotation device, adults nearby and 4-6 children in water, fireman to watch pool while BBQing nearby but went inside when someone sprained ankle, 6 yr old brother in pool had possibly asked victim to give him a toy
- 4 yr old male at community pool with 14 yr old brother, other people at pool, in pool on raft that tipped over
- 4 yr old male with Spanish speaking mom while babysitting infant which she had been doing for 3 mo, child went with her several times a week, doors to house open, playing in rear yard and opened gate to backyard pool area, pool green, had gone to pool area before and mom scolded him
- 4 yr old female at apartment pool with mother who also drowned, father said neither knew how to swim
- 3 yr old female in pool and father with her in back yard, father left and answered phone, joint custody
- 3 yr old female playing with 5 older children (some swimming) inside chain link fence area, gate lock not working properly and gate propped open, slider also open, aunt in shower and aunt's friend informally watching children and watching tv, older brother had removed dress in case she wanted to go in pool, another child had seen her dipping hand in water and told her to get away, doll found at bottom of pool
- 3 yr old male at party at community complex (27 total people), in spa with 4 adults sitting on edge and several children in water, dad standing nearby, spa jets turned on, discovered at the bottom by another child in water
- 3 yr old male with father and 16 yr old sister at gated community pool, had been in spa with sister and her friend, went to bathroom with father who let him out while father remained inside, older sister and her friend had moved to picnic area and did not see victim exit bathroom, father had been drinking
- 3 yr old female inside fenced area near spa at pool complex, mother on chair near pool not in site of spa preoccupied with removing band-aid, had asked child not to go into water, earlier in

day mother had to jump in pool when child walked into deep water, family had moved from Iraq to US 1 wk

- 3 yr old female outside in pool with father, father went in for floatation device, phone rang, joint custody
- 3 yr old male in backyard playing in sandbox or feeding dogs, mother went inside to get toy, answered phone and checked on boyfriend who had had seizure, child had asked to go swimming earlier but told no because pool dirty (pool green)
- 2 yr old female in wading pool at community center with 15 yr old sister who was talking with security guard 15 ft away, had been wearing floaties but off when found
- 2 yr old male outside playing with other children (some playing in above ground pool), grandmother in house, informal supervision, many cousins and adults around, child and sibling had been placed with grandparents hours earlier
- 2 yr old male playing in yard near pool, family lives in garage adjacent to pool, were watching tv and had allowed child out alone, garage appears unfit for habitation, grandmother lives in main house, gate to street off hinges and leaning against fence exposing pool to anyone
- 1 yr old (19 mo) male playing outside with other children near pool (3 under 6 and two 11 yr olds), slider open, mother inside cleaning and aunt cleaning shack in back yard, earlier in day child had been throwing peaches in pool and had gone in to get them, green pool
- 1 yr old (19 mo) male allowed by mother to play outside with dog, mother and children living with aunt since separated from husband 3 weeks, ago, mother in house nursing 2 mo old, aunt cooking and had cautioned mom not to let child out alone, under inflated above ground pool, child pulled side down earlier and had gotten wet

**CHILD WHO DROWNED WAS NOT IN HOUSE AND NOT IN THE IMMEDIATE VICINITY OF POOL**

- 4 yr old male playing in house/yard without pool, mother inside with boyfriend applying lotion to rash, child put picnic table by fence and climbed into neighbor's yard, teenage neighbor had seen him earlier but child ran back to own yard, returned unobserved without clothes
- 2 yr old male outside with uncle at garage sale, dad inside, had taken net off pool to clean it so children could go swimming later, older sister also at house
- 1 yr old (18 mo) male in garage near parents who were arguing regarding father's drug use and mother's affair, child followed parents into yard, 3 other adults at house, 2 ft green water in partially drained pool, moved because house was condemned
- 1 yr old (20 mo) male playing with puppy in front yard, mesh fence around pool, dog had dug hole by gate and child got through, mom outside (3 other older children in household), green pool
- 1 yr old (22 mo) male left in garage with uncles who were drinking beer, mother fell asleep inside, adult on chair by pool sleeping, fenced pool being used by children, gate stuck open, only 4 adults have key to pool which is usually kept locked, 15 people in household, child found in spa attached to pool

1 yr old (17 mo) female with parents who had returned home from shopping, released from car seat, parents proceeded to unload car, father went in through front door, mom thought child went with him, (2 older siblings at location), white metal fence around pool, gate separating garage from pool usually closed and locked but left unlocked today because moving items in preparation for garage sale, had tried to go to pool before but had been blocked by fence

## **Appendix 8**

### **Barrier Information OC Coroner Data**



# Residential Pool/Spa Barriers Mentioned in OC Coroner Data (excluding perimeter fences)

Type of Barrier	Status	Condition of Pool	Child's Access to Water
Net	Off – pool to be used later	Clear- pool being used	Child accessed pool area through house
Net	Off – pool to be used later	Clear - pool being used	Child accessed pool area through garage
Pool cover	Off – pool in use	Clear - pool being used	Child left alone in pool
Fence separating pool from house	Bicycle lock on picket fence gate broken leaving large gap	Green water	2 children who both drowned had direct access from house
Fence separating pool from house	36 “ white metal – gate left open by parents preparing for garage sale	Clear	Went out through garage
Fence separating pool from house	Wrought iron fence – gate with spring latch not self closing Gate left open by older child	Clear	Exited from house
Fence separating pool from house	5 ft slatted fence – missing slats – gate not locked	Green – pool in poor repair	Opened gate
Fence separating pool from house	Mesh – dog had dug hole by gate and part of gate down	Green	Playing in yard and crawled through hole left by dog
Fence separating pool from house	6 ft chain link Gate lock not working properly, Gate propped open	Pool being used	Playing with older children, inside fenced area
Fence separating pool from house	Self closing self latching gate propped open by older children who had been swimming	Pool being used	Thought to be playing in house with older children, exited through open slider and open gate
Fence separating pool from house	5 ft wrought iron, Gate stuck open on concrete	Pool being used by children	Last in garage with uncles
Fence separating pool from house	Tubular fence -broken hinge	No information	Exited house through sliding door
Partial fence not separating all exits from house	Wrought iron fence with gate and 6 ft wood fence	Green water	Exited house through bedroom that had direct access to pool
Partial fence not separating all exits from house	Fence gate has loose screw & did not fully latch	Water clear - pool used earlier in day	Exited house through bedroom that had direct access to pool

## **Appendix 9**

### **Riverside Case Summaries**

## **Riverside Coroner Case Summaries**

### **(23 Cases)**

1 yr old female (13 mo), father had gone to work and left child sleeping with mother in bedroom in garage, mother woke and found child in pool, unknown if garage/bedroom door was open while mother slept, large household, beer cans by pool

1 yr old female (13 mo), father took 4 children to hot tub, child last seen playing inside, father went inside to change and when returned found child in hot tub, had exited house through sliding door from bedroom

1 yr old female (20 mo), family outside preparing to go swimming, mother went in to put on suit leaving child with older sister, 4 ft fence blocks patio from pool, older sister may have opened gate while mother inside, father saw child in pool, jumped from 2<sup>nd</sup> story balcony and broke leg

1 yr old female (20 mo), at daycare licensed for 14 children (only 4 present at time of incident), found in jacuzzi that may have had a partially open lid, incident could have happened anytime between 8 and 11:30am, fence around pool but not jacuzzi, prior complaints to childcare licensing about jacuzzi and pool fence, provider first said they found child in plastic pool and later said found child in jacuzzi

1 yr old male (22 mo), mother had been cleaning backyard and left pool gate open, child playing with other children in front yard, child later found in spa (attached to swimming pool)

1 yr old male (22mo), playing out front with neighbors and older brothers, level of supervision unclear, access from front yard to back yard (no fence), found in pool by older brother, child taken to clinic who then called 911

1 yr old female (23 mo), incident at child's residence, found by father, household of parents and 3 older siblings, no other details in file

2 yr old female, playing outside with mother while she was doing yard work, 2 older siblings also at residence, found in spa/hot tub

2 yr old male, playing in dirt in side yard, mother inside watching TV, mother did not hear child and then found him in pool, chain link fence gate may have been left open after pool was cleaned, usually padlock on latch but not locked

2 yr old male, playing with neighbor's 2 yr old son in back yard while mother and neighbor were upstairs with siblings, father came home and asked about child, child and playmate had wandered across street to neighbor's backyard, found in pool, several items found in pool which had not been there earlier so child may have fallen in while throwing items into pool, front door to neighbor's house may have been left ajar and child may have opened slider to patio/pool

2 yr old male, mother talking with neighbor and daughter who were visiting, child thought to be in family room, child found in pool, 5 ft wrought iron fence around pool, sliding door from house and pool gate found open – unsure if child had opened them

2 yr old female, grandmother left child with mother, mother had been drinking and using pot/cocaine all night prior to incident and was asleep, mother was not aware child was at house and left after waking up several hours later, spoke with grandmother who reminded her she was to be caring for child, returned home and found child in pool, hinged door to pool does not close properly and had been left open

2 yr old male, watching movie with other children while at wedding reception at private residence, parents who periodically checked on children found all children missing from room, child found in spa (attached to pool), no information about barriers or access in file

2 yr old female, mother had been washing clothes in garage and on phone in bedroom, had recently moved to residence, child last seen in house, older brother found child in pool, no locks on sliding door and had opened door to pool area, prior CARs for mother leaving children alone

2 yr old, father left children at home while mother was napping, older children woke mother and told her child missing, called father to see if child with him, found child in above ground pool, 45in fence blocks access, bungee cord holding gate closed was missing, child either climbed or opened gate to access pool deck, Spanish speaking only

2 yr old male, being babysat at friends house, one other child also at residence, baby sitter on phone and lost track of child's whereabouts, found in pool, child last seen in house, no fence around pool, no CPR until medics arrived

3 yr old male, playing in pool with older siblings (6 and 7 yr) without adult present for 30-40 minutes, found by sibling, no CPR until medics arrived

3 yr old, playing in/near jacuzzi (attached to pool) with siblings (3, 3 and 5 yr) at uncle's house, mother inside getting pajamas and heard screaming, found in Jacuzzi, aunt pulled child from water

3 yr old female, playing outside with other children (10-20 children) at friend's house while mother inside at Bible study group, iron fence around pool had rusted latch on gate that did not latch well, found in pool by another adult, no CPR until medics arrived

3 yr old male, playing in pool with brothers (6, 11 yr), went inside with mother and then came back out unnoticed by brothers, found in spa by mother

3 yr old male, supervised by teenage brother while mother at store, child opened sliding door and found in pool by brother, no CPR until medics arrived

4 yr old female with cerebral palsy and inability to walk, being babysat by someone who had babysat her before, parents stated that she had taken swim lessons and knew how to swim, possibly went through open slider and fell down 12 steps to pool

4 yr old male with autism and cerebral palsy, in living room with 5 yr old sister, father went to bathroom and when returned looked for child and found him in pool, 4 ft metal fence around pool, child opened sliding door from kitchen and then propped patio chair to climb fence, child had previously been scolded for trying to exit sliding door in living room

## **Appendix 10**

### **Riverside County Child Drowning Death Table**

**Riverside County Children who Drowned in Pools and Spas in Riverside County  
2003-2007, Children Age 1-4  
Data in Riverside County Coroner Records  
N = 23**

<b>INVESTIGATION INFORMATION</b>		
<b>Item</b>	<b># and % of cases for which data were available in files</b>	<b>Notes related to variables</b>
Coroner case notes	23 (100%)	
Police report	0 (0%)	
CPS report in file	0 (0%)	
Coroner conducted scene investigation	17 (74%)	No coroner investigation = 4 No documentation = 2
Police responded to scene	13 (57%)	No documentation = 10
Pictures were taken at scene	11 (48%)	No documentation = 12
Documented that coroner took pictures	9/17 (53%)	No documentation = 10
Documented that police took pictures	3 (13%)	
Documented that diagram of scene was done	0 (0%)	
<b>CHILD INFORMATION</b>		
Child's age and birthdate	23 (100%)	1 yr = 7, 2 yrs = 9, 3 yrs = 5, 4 yrs = 2
Gender	23 (100%)	Male = 12, Female = 11
Ht, Wt	0 (100%)	
Race/Ethnicity	17 (74%)	NH White = 9, Hispanic = 6, Black = 1, API = 1 No documentation = 6
Address	23 (100%)	
Time, cause and place of death	23 (100%)	
Activity of child when last seen	18 (78%)	Swimming = 1, Playing outside = 7, Watching TV = 1, Sleeping = 2, Inside = 6, Going in/out of house to pool/spa area = 1 No documentation = 5
Type of clothing worn by victim when found	7 (30%)	Swimsuit = 1, Day clothing = 3, Diaper/underwear = 3 No documentation = 16
Notes on circumstances before incident	20 (87%)	
Medical History	21 (91%)	Healthy = 18, Cerebral palsy = 1, Autism & CP = 1, Breathing Problems = 1 No documentation = 2
Child's abilities related to opening, unlocking Doors	1 (4%)	Able to open door = 1 No documentation = 22
<b>SUPERVISION INFORMATION</b>		
Primary person/s responsible for supervision of child	22 (97%)	Mother = 12, Father = 4, Teen sibling = 1, Babysitter/childcare = 3, Mother & father = 1, Multiple caregivers = 1 No documentation = 1
Supervisor ability to speak English	14 (61%)	English = 13, Spanish = 1 No documentation = 9
If not parent, how often responsible for supervising child	1/6 (17%)	Daily = 1 No documentation = 5 Not applicable = 17
If supervisor not parent- where was parent at the time	4/6 (76%)	Not at house = 4 No documentation = 2 Not applicable = 17

Where victim last seen by supervisor	19 (83%)	In/near pool/spa =2, Backyard, not near pool/spa =3, Front yard =1, Inside =10, Going in/out to pool/spa=2, In/out not to pool/spa =1 No documentation =4
Information if supervisor had been drinking	9 (39%)	Yes =2, No =7 No documentation = 14
Information if supervisor had been using drugs	9 (39%)	Yes =1, No =8 No documentation = 14
Estimated time since child last seen by supervisor	17 (74%)	≤ 5 min =8, 7-10 min =2, 15-20 min =3, > 30 min =4 No documentation = 6
Where was supervisor at time of incident	18 (78%)	Inside =15, Outdoors =2, Father left while mother sleeping =1 No documentation =5
Information on where supervisor thought child was	16 (70%)	
Information on why supervisor started looking for child	17 (74%)	
When noticed child missing where did they look first	14 (61%)	
Supervisor activity at time of incident	17 (74%)	Drug/alcohol impaired/sleeping =1, Asleep with child=1, On phone =1, Watching TV =1, Working around house =3, Talking with others =4, In bathroom=2, Left house while other adult sleeping =1 No documentation = 6
Information if supervisor thought someone else was watching child	19 (83%)	Yes =2, No =7, Assumed okay because with other children =10 No documentation = 4
Information if adult supervisor asked other person to watch child – excludes child supervisor and cases with only one adult	3/15 (20%)	No = 3 No documentation = 12 Not applicable = 8
Information on anyone else seeing victim after supervisor saw child	14 (74%)	Yes = 9 No = 8 No documentation = 6
<b>INCIDENT INFORMATION</b>		
Incident date, time*, location * Time when found	23 (100%)	2003 = 3, 2004 =2, 2005 =7, 2006 =7, 2007 =4 10am-noon =5, noon-6pm =14, 6pm-9pm =4
Type of dwelling (excludes community pools)	22 (97%)	Single family =22 No documentation = 1
Information if rental	0 (0%)	
Information on whether or not HUD	0 (0%)	
Site of Incident	22 (97%)	Child's residence =15, Relative =1, Neighbor=1, Daycare/sitter =2, Friend =3 No documentation = 1 (but not child's residence)
Length of time owner/leasee lived at incident address	1 (4%)	
Length of time victim lived at incident address	1/15 (7%)	
Information if non routine or not ordinary circumstances	17 (74%)	Yes = 3, no = 14 No documentation = 6
If not at child's home, specify why was child at location	7/8 (88%)	Visiting =1, Entered neighbor's vacant house =1, Being babysat =3, Party/gathering = 2 No documentation = 1 Not applicable = 15
If not child's home, how often child at incident location	2/8 (25%)	

If not child's home, information on amount of time at location prior to incident	1/8 (13%)	
How often did child use this pool/spa	1 (4%)	
Number of people at location when incident occurred	19 (83%)	1 = 4, 2 = 4, 3=3, 4-5 = 4, 1-2 families = 1, Many = 3 No documentation = 4
Information if alcohol and/or drug use evident at time of event	7 (30%)	Yes = 2, No = 5 No documentation = 16
Information if adults appeared under the influence of alcohol	4 (18%)	No = 4 No documentation = 19
Information if adults appeared under the influence of drugs	2 (9%)	No = 2 No documentation = 21
Information if use of floaties/water wings/flotation device	16 (70%)	Yes (earlier) = 1, No = 15 No documentation = 7
Position of child when found	17 (74%)	Face down = 10, Face up = 2, Floating, unspecified = 2, On bottom = 3 No documentation = 6
If in-ground pool, information on if found in deep or shallow end	5/16 (31%)	
<b>WATER SOURCE INFORMATION</b>		
Type of body of water where incident occurred	23 (100%)	In-ground pool =15, Above ground pool =1, Spa/hot tub =7
Water depth (deepest depth)	14 (61%)	
Were there steps into pool	6 (26%)	
Information on water clarity	3 (13%)	Clear =3 No documentation = 20
Information on water temperature	3 (13%)	
If spa, were jets on or off	2/7 (29%)	Yes =1, No = 1 No documentation = 5 Not applicable = 16
If spa, was clarity obscured or not because of jets	1/6 (17%)	Possibly = 1 No documentation = 5 Not applicable = 17
Information on other bodies of water in same yard	6 (26%)	
How often is pool/spa used	1 (4%)	
Was pool used day of event	13 (57%)	Yes =7, No =6 No documentation = 10
Was pool used by child day of event	12 (53%)	Yes = 3, No = 9 Not documented = 11
Information if toys or other objects in water	6 (26%)	Yes =3, No =3 No documentation =17
Information if other toys or objects near pool	5 (22%)	Yes = 2, No = 3 No documentation = 18
Information if pool built prior to 1998	1 (4%)	
If pool/spa were there any unusual characteristics, features	2 (9%)	
Information if code violations	0 (0%)	
Information if any actions taken by public agency after event	0 (0%)	
Information if any actions taken by parents/owners or pool after	0 (0%)	



<b>BARRIER / ACCESS INFORMATION</b>		
Information if property line fence or not	2 (9%)	Yes =2 No documentation = 21
Information on property fence type	1/2 (50%)	
Information on height of perimeter fence	0 (0%)	
Information on condition of perimeter fence	0 (0%)	
Information if direct access from house /garage to pool/spa	13 (59%)	Yes = 6, No = 7 No documentation = 9 Not applicable = 1
Information if fence around the pool	18 (78%)	Yes =7, No =11 No documentation =5
Information on fence type (not community pools)	4/12 (33%)	Chain link = 1, Metal = 1, Iron = 2 No documentation = 8 Not applicable = 11
Information on fence height	4/12 (33%)	45 inches = 1, 48 inches = 2, 60 inches = 1 No documentation = 8 Not applicable = 11
Information on condition of fence	4/12 (33%)	
Information on fence gate (not community pools)	4/12 (33%)	Open = 3, No lock = 4, Not self closing = 2 No documentation = 8 Not applicable = 11
Information on other gates (not part of isolation fence)	0 (0%)	
Comments re: barriers / alarms	7 (30%)	Cover off = 1, None = 6 No documentation = 16
Information on how victim accessed pool/spa	18 (78%)	Brought in =1, Followed in =1, Direct, no barriers =2, Through door =7, Through gate =5, Entered neighbor's house and went out through slider =1, used chair to climb fence =1 No documentation =5
Information if child exited house from usual exit to the pool	9/21 (43%)	Yes = 9 No documentation = 12 Not applicable = 2
Information on what room child exited house	8/21 (38%)	Kitchen = 2, Living room/den = 4, Bedroom = 1 No documentation = 13 Not applicable = 2
Comments related to supervisor thinking barriers adequate or child could not access water	3 (13%)	
Explanation of how victim got through barrier(s)/accessed water	14 (61%)	
<b>CLASSES / EMERGENCY PREPAREDNESS AND RESPONSE</b>		
Information on rescue equipment near water	4 (17%)	No = 4 No documentation = 19
Information on phone near pool/spa	8 (35%)	Yes = 8
Who found child in water	23 (100%)	Supervisor = 15, Another adult = 5, Child = 3
Who pulled child from water	22 (97%)	
Delay or not in pulling child from pool	20 (87%)	Yes = 2, No = 18 No documentation = 3
Information on estimated time of submersion	0 (0%)	
Information on 911 called	23 (100%)	Not from site = 3. From site = 20
Information on who initiated CPR	22 (97%)	Supervisor = 13, Someone at site = 4, Medic = 4, Police = 1 No documentation = 1
Information on estimated time to initiate CPR	22 (97%)	No delay = 17, Delay = 5 No documentation = 1

Information on supervisor ever take CPR	2 (9%)	No= 2 No documentation = 21
Information if supervisor knew how to swim	2 (9%)	Yes= 2 No documentation = 21
Information if victim ever took swim lessons or water safety class	4 (17%)	Yes = 1, No = 3 No documentation = 19
Comments on child's familiarity (attitude, comfort level) with water	1 (4%)	
Information related to child's swimming ability	5 (22%)	Knew how to swim = 1, Not able to swim = 4 No documentation = 18
Comments on previous risk behavior of child	0 (0%)	
<b>FAMILY / SOCIAL INFORMATION</b>		
Household size – excluding child	17 (74%)	2-3 =8, 4-5 =6, 7 =2, 12 =1 No documentation = 6
Information if mother in household	19 (83%)	Yes = 19 No documentation=4
Information if father in household	19 (83%)	Yes 19 No documentation=4
Information on siblings	19 (83%)	None (30 1-2 (11)
If several families in HH, know each other well	3/11 (27%)	Related = 3 No documentation = 8 Not applicable = 12
Information if everyone in household speaks English	12 (53%)	Yes =11, No=1 No documentation =11
Marital status of parent with whom child lives	17 (74%)	Married =16, Single =1 No documentation = 6
Information if parent who not living with child	0% (0%)	No documentation = 5 Not applicable = 18
CAR report made (as documented by coroner)	14 (61%)	Yes =7, No =7 No documentation = 9
Prior Child Abuse Reports for family	13 (57%)	Yes =1, No =12 No documentation = 10
Information if there was open CPS case at time of incident	13 (57%)	No =13 No documentation = 10
Information on whether or not mother had history of alcohol abuse	1 (4%)	Yes =1 No documentation = 22
Information on whether or not mother had history of drug abuse	1 (4%)	Yes =1 No documentation = 22
Information on whether or not father had history of alcohol abuse	0 (0%)	No documentation = 23
Information on whether or not father had history of drug abuse	0 (0%)	No documentation = 23
Information on whether or not mother had crime history	0 (0%)	No documentation = 23
Information on whether or not father had crime history	1 (4%)	Yes =1 No documentation = 22
Information on prior police calls to residence	3 (13%)	No = 3 No documentation = 20
Information on violations (as related to child/children, ie car seat ticket)	3 (13%)	Yes =1, No =2 No documentation = 20

## **Appendix 11**

### **Submersion Incident Report Form**

# SUBMERSION INCIDENT REPORT

## FOR ALL DROWNING OR NEAR DROWNING INCIDENTS IN RIVERSIDE COUNTY

BASIC INCIDENT INFORMATION	A: ADULT SUPERVISION
<p><b>Date of Incident:</b> _____ <b>Time of Incident:</b> _____</p> <p><b>Your Agency's Incident Number:</b> _____</p> <p><b>Reporting Agency:</b> _____</p> <p><b>Incident City:</b> _____</p> <p><b>Zip code:</b> _____</p> <p><b>Type of Dwelling:</b>   <input type="checkbox"/> House   <input type="checkbox"/> Apartment/Condo  <input type="checkbox"/> Hotel/Motel   <input type="checkbox"/> N/A   <input type="checkbox"/> Other: _____</p>	<p><b>Supervisor(s) at time of incident:</b>   <input type="checkbox"/> Unknown   <input type="checkbox"/> NA = adult  <input type="checkbox"/> Mother   <input type="checkbox"/> Father  <input type="checkbox"/> Sibling   <input type="checkbox"/> Babysitter/Childcare Provider  <input type="checkbox"/> Other (specify): _____</p> <p><b>Supervisor activity immediately prior to incident:</b>          _____          _____   <input type="checkbox"/> Unknown</p> <p><b>Alcohol and/or drug use evident?</b>   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unknown</p>
VICTIM INFORMATION	B: BARRIER INFORMATION
<p><b>Age of Victim:</b> _____ <b>Sex:</b>   <input type="checkbox"/> M   <input type="checkbox"/> F</p> <p><b>Victim's Race/Ethnicity:</b>   <input type="checkbox"/> Unknown  <input type="checkbox"/> Hispanic   <input type="checkbox"/> White   <input type="checkbox"/> Black   <input type="checkbox"/> American Indian  <input type="checkbox"/> Asian/PI   <input type="checkbox"/> Other</p> <p><b>Victim Last Seen:</b>   <input type="checkbox"/> Unknown  <input type="checkbox"/> Swimming   <input type="checkbox"/> Playing Outside   <input type="checkbox"/> Playing Inside  <input type="checkbox"/> Sleeping   <input type="checkbox"/> Other: _____</p> <p><b>Est. Time Submersed:</b> _____   <input type="checkbox"/> Unknown</p> <p><b>Type of Clothing Worn by Victim:</b>   <input type="checkbox"/> Unknown  <input type="checkbox"/> Swim suit   <input type="checkbox"/> Day clothing   <input type="checkbox"/> Pajamas   <input type="checkbox"/> None</p> <p><b>Alcohol and/or drug use evident?</b>   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unknown</p>	<p><b>Water Barriers Present</b>          Property barrier fence present:   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unk   <input type="checkbox"/> N/A          2<sup>nd</sup> fence around pool present   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unk   <input type="checkbox"/> N/A          Self-closing/Self-latching gate   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unk   <input type="checkbox"/> N/A</p> <p><b>Other barriers/alarms present:</b>  <input type="checkbox"/> Sliding Door Alarm  <input type="checkbox"/> Pool Cover/Alarm  <input type="checkbox"/> Pool net          Other Barrier _____</p> <p><b>Access to Pool by Victim:</b>  <input type="checkbox"/> Unknown  <input type="checkbox"/> Direct Access by Adult  <input type="checkbox"/> Direct Access/No Barriers by child  <input type="checkbox"/> Brought in to water area by other person</p> <p><b>Explain how victim got through barrier(s):</b> _____          _____          _____          _____</p>
WATER SOURCE INFORMATION	C: CLASSES/EMERGENCY PREPARATION
<p><b>Site of Incident:</b>   <input type="checkbox"/> Unknown  <input type="checkbox"/> Victim Residence   <input type="checkbox"/> Relative Residence  <input type="checkbox"/> Neighbor Residence   <input type="checkbox"/> Friend Residence  <input type="checkbox"/> Sitters/Daycare Provider   <input type="checkbox"/> Public Pool  <input type="checkbox"/> County/City Park   <input type="checkbox"/> Apartment/Hotel  <input type="checkbox"/> Other: _____</p> <p><b>Water Clarity:</b>   <input type="checkbox"/> Clear   <input type="checkbox"/> Cloudy  <input type="checkbox"/> Muddy   <input type="checkbox"/> Green  <input type="checkbox"/> Unknown</p> <p><b>Water Depth:</b>   <input type="checkbox"/> Under 18" (approx. depth _____)  <input type="checkbox"/> 18" – 48"   <input type="checkbox"/> Over 4'  <input type="checkbox"/> Unknown</p> <p><b>Water Type:</b>   <input type="checkbox"/> Unknown  <input type="checkbox"/> Pool – in ground   <input type="checkbox"/> Spa/Hot Tub   <input type="checkbox"/> Bathtub  <input type="checkbox"/> Pool – above ground   <input type="checkbox"/> Toilet   <input type="checkbox"/> Bucket  <input type="checkbox"/> Child wading pool   <input type="checkbox"/> Lake or pond   <input type="checkbox"/> Stream/river  <input type="checkbox"/> Canal/irrigation ditch   <input type="checkbox"/> Other: _____</p> <p><b>Toys or objects in water?</b>   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unknown          If yes, describe: _____</p> <p><b>Pool/spa built before 1998?</b>   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unk   <input type="checkbox"/> N/A</p> <p><b>Lived at this address one year or less?</b>   <input type="checkbox"/> Yes   <input type="checkbox"/> Unk   <input type="checkbox"/> N/A</p>	<p><b>Was rescue equipment near water?</b>  <input type="checkbox"/> Shepherd's hook   <input type="checkbox"/> life ring   <input type="checkbox"/> other: _____  <input type="checkbox"/> Unknown/not assessed</p> <p><b>Was CPR performed?</b>   <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unknown   <input type="checkbox"/> NA</p> <p><b>Who performed CPR?</b>  <input type="checkbox"/> supervisor   <input type="checkbox"/> bystander   <input type="checkbox"/> Unknown  <input type="checkbox"/> other: _____</p> <p><b>Did victim ever take swim lessons or water safety classes?</b>  <input type="checkbox"/> Yes   <input type="checkbox"/> No   <input type="checkbox"/> Unknown</p>
<p><b>Completed by:</b> _____</p> <p><b>Email Address:</b> _____</p> <p><b>Contact Phone:</b> _____</p>	<p><b>Victim Transported to:</b> _____</p> <p><b>Narrative:</b> _____          _____          _____          _____          _____</p>