Puntos de Descargas a Cuerpos de Agua

Región No. 2

Barrio: Puerto Nuevo

Sector: Puerto Nuevo Sur

Cuerpo de Agua: Canal Puerto Nuevo

Puntos de descargas a cuerpos de agua descripción y hallazgos

Región No.2

Barrio: Puerto Nuevo

Sector: Puerto Nuevo Sur

Cuerpos de Agua: Canal Puerto Nuevo

En este estudio se analizaron las cuadriculas G14a y G14c. De las estructuras analizadas tenemos que un 100% están sucias o tapadas. Hay varias estructuras de drenaje que se encontraron en el lugar que no estaban identificadas en los dibujos del Municipio de San Juan.

Adjunto incluimos datos de campo por cada estructura con los problemas encontrados de haberlos y acciones inmediatas y a largo plazo a tomar, estos datos contienen sus fotos y copia de planos usados para el mismo.

ESTUDIO INUNDACION MUNICIPIO SAN JUAN
Puntos de Descargas

REGION No. 2

BRIGADA: No. 4
BARRIO: Puerto Nuevo
SECTOR: Puerto Nuevo Sur

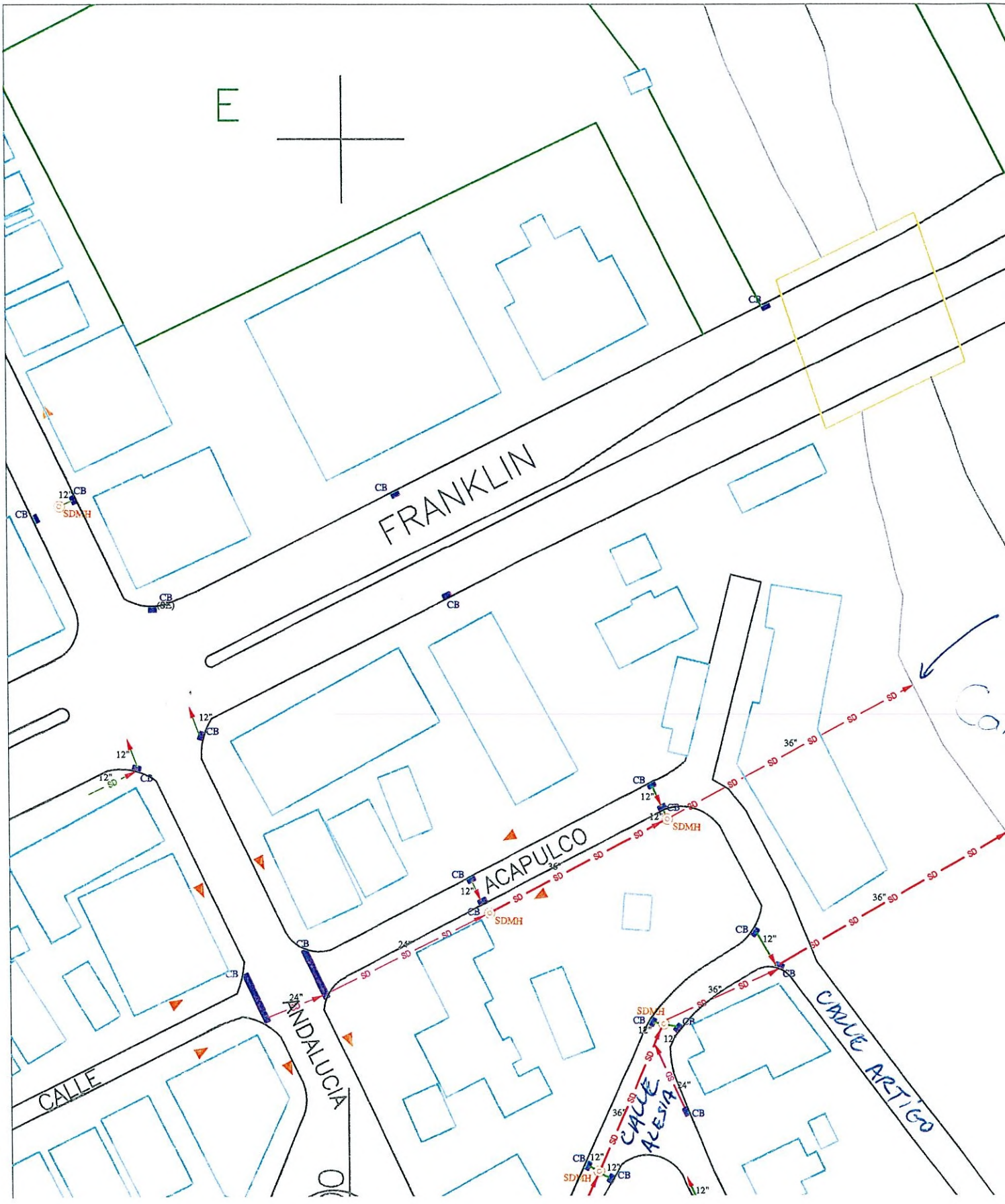
CSA Group **CSA Architects and Engineers, LLP**

Semana: del 28 Septiembre al 02 Oct 09

QUADRICULA	LOCALIZACION ESPECIFICA	No. DE ESTRUCTURA	TAPADA Y/O SUCIO	LIMPIA	TAPA SELLADA	COMBINADA	EXISTE Y NO ESTA EN PLANO MSJ	ESTA EN PLANO MSJ Y NO EXISTE	COMENTARIOS
G14c	Calle Antartica	S-001a	1						
G14c	Calle Antartica	S-002a	1						
G14a	Estacionamiento Coliseo Rpberto Clemente	S-001a	1				x		

TOTAL TAPADAS Y/O SUCIAS	3
TOTAL LIMPIAS	0
TOTAL SELLADAS	0
TOTAL COMBINADAS	0

% TAPADAS	100
% LIMPIAS	0
% SELLADAS	0
% COMBINADAS	0


E
FRANKLIN
ACAPULCO
ANDALUCIA
CALLE
CALLE ALESIA
CALLE ARTIGO
CB
SDMH
SD
12"
24"
36"

CSA Group

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Date: 01/OCT/09	Outfall ID: S-001A
Brigade No: 4	Body of Water: CANAL PUERTO NUEVO
Grid (Cuadricula): G14a / Region: 2	
Barrio: PUERTO NUEVO / Sector: PUERTO NUEVO	GPS Unit: / GPS LMK #:
Street: COLISEO SUR ESTACIONAMIENTO ROBERTO CLEMENTE	Photo #s: 6591, 6592, 6593, 6594

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes :

¿Esta estructura esta en los planos del Municipio de San Juan? ☐ Si ☒ No

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 48	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ In-Stream	(applicable when collecting samples)				
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 4*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

CSA Group

Outfall Reconnaissance Inventory Field Sheet

Section 3: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☒	☒ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Recommendations:

☒ Immediate Action ☐ Intermediate action ☐ Long time action

☒ Cleaning, uncover

CSA Group

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Date: 01/OCT/09	Outfall ID: S-002A
Brigade No: 4	Body of Water: CANAL PUERTO NUEVO
Grid (Cuadricula): G14a / Region: 2	
Barrio: PUERTO NUEVO / Sector: PUERTO NUEVO SUR	GPS Unit: / GPS LMK #:
Street : CALLE ARTIGO INT. C. ALESIA	Photo #s: 7069

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes : NO PUDIMOS ACCESAR EL PUNTO DE DESCARGA OBSERVAMOS EL POCETO ANTES DE LA DESCARGA Y VERIFICAMOS EL DIAMETRO Y LA DIRECCION DE LA TUBERIA

¿Esta estructura esta en los planos del Municipio de San Juan? ☒ Si ☐ No

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ In-Stream	(applicable when collecting samples)				
Flow Present?	☐ Yes ☐ No *If No, Skip to Section 4*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

CSA Group

Outfall Reconnaissance Inventory Field Sheet

Section 3: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Recommendations:

☐ Immediate Action ☐ Intermediate action ☐ Long time action

☐ Cleaning, uncover

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CSA Group

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Date: 01/OCT/09	Outfall ID: S-003A
Brigade No: 4	Body of Water: CANAL PUERTO NUEVO
Grid (Cuadricula): G14a	Region: 2
Barrio: PUERTO NUEVO / Sector: PUERTO NUEVO SUR	GPS Unit: / GPS LMK #:
Street : CALLE ARTIGO INT. C. ACAPULCO	Photo #s: 7070, 7071

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes : NO PUDIMOS ACCESAR EL PUNTO DE DESCARGA OBSERVAMOS EL POCETO ANTES DE LA DESCARGA Y VERIFICAMOS EL DIAMETRO Y LA DIRECCION DE LA TUBERIA

¿Esta estructura esta en los planos del Municipio de San Juan? ☒ Si ☐ No

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 36	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ In-Stream	(applicable when collecting samples)				
Flow Present?	☐ Yes ☐ No *If No, Skip to Section 4*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

CSA Group

Outfall Reconnaissance Inventory Field Sheet

Section 3: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Recommendations:

☐ Immediate Action ☐ Intermediate action ☐ Long time action

☐ Cleaning, uncover

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CIMG7071

CIMG6594

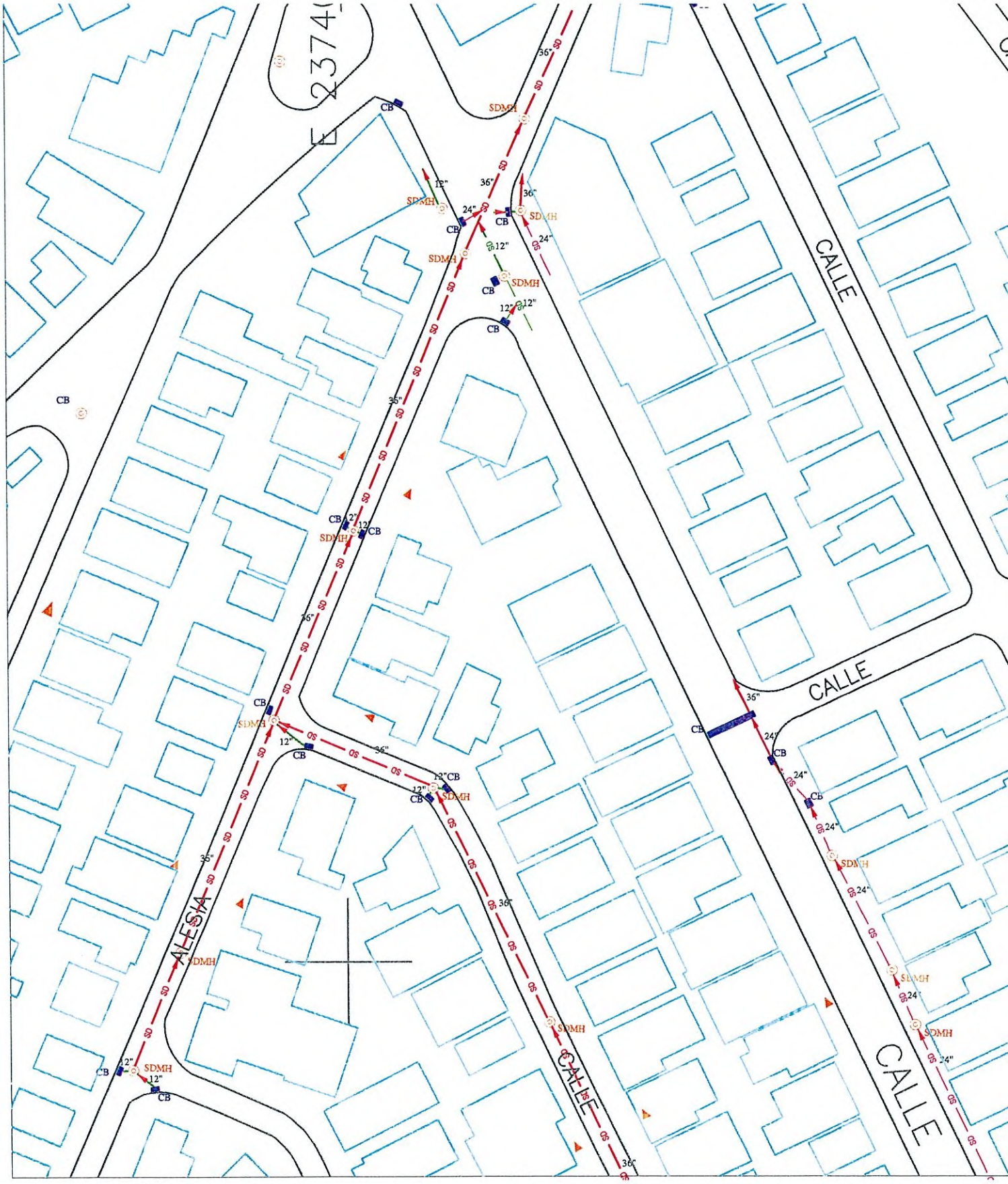
CIMG6591

CIMG7069

CIMG6592

CIMG7070

CIMG6593


CALLE
CALLE
CALLE
CALLE
ALESIA
SDMH
CB
SD
36"
24"
12"

CSA Group

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Date: 01/OCT/09	Outfall ID: S-001A
Brigade No: 4	Body of Water: CANAL PUERTO NUEVO
Grid (Cuadricula): G14C	Region: 2
Barrio: PUERTO NUEVO	Sector: PUERTO NUEVO SUR
GPS Unit:	GPS LMK #:
Street: CALLE ANTARTICA	Photo #s: 6585, 6586, 6587

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes:
NO PUDIMOS ACCEDER A LA SALIDA DEL TUBO POR QUE ESTA DETRAS DE PROPIEDAD PRIVADA, PERO CONFIRMAMOS LA DIRECCION DEL TUBO HACIA EL CANAL

¿Esta estructura esta en los planos del Municipio de San Juan? ☒ Si ☐ No

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ In-Stream	(applicable when collecting samples)				
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 4*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

CSA Group

Outfall Reconnaissance Inventory Field Sheet

Section 3: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 4: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Recommendations:

☐ Immediate Action ☐ Intermediate action ☐ Long time action

☐ Cleaning, uncover

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CSA Group

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Date: 01/OCT/09	Outfall ID: S-002A
Brigade No: 4	Body of Water: CANAL PUERTO NUEVO
Grid (Cuadricula): G14C	Region: 2
Barrio: PUERTO NUEVO	Sector: PUERTO NUEVO SUR
GPS Unit:	GPS LMK #:
Street: CALLE ANTARTICA	Photo #s: 6364

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Ultra-Urban Residential
- ☐ Suburban Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Notes:
NO PUDIMOS ACCEDER AL PUNTO DONDE LA TUBERIA DESCARGA AL CANAL PERO CONFIRMAMOS LA DESCARGA EN LA ESTRUCTURA (CROSS INLET) QUE ESTA ANTES.

¿Esta estructura esta en los planos del Municipio de San Juan? ☒ Si ☐ No

SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☒ Circular ☐ Eliptical ☐ Box ☐ Other: _____	☒ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: 24	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ Open drainage	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ In-Stream	(applicable when collecting samples)				
Flow Present?	☐ Yes ☒ No *If No, Skip to Section 4*				
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

CSA Group

Outfall Reconnaissance Inventory Field Sheet

Section 3: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No *(If No, Skip to Section 4)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
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Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
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Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

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INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Recommendations:

☐ Immediate Action ☐ Intermediate action ☐ Long time action

☐ Cleaning, uncover

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CIMG6364

CIMG6587

CIMG6585