INDIAN HEALTH SERVICE
SANITATION DEFICIENCY SYSTEM

REGIONAL TRIBAL OPERATIONS COMMITTEE
SUMMER MEETING – BREAKOUT SESSIONS
WEDNESDAY, JULY 30, 2014

DONALD BRAFFORD, P.E.
DIRECTOR, DIVISION OF SANITATION FACILITIES CONSTRUCTION
CALIFORNIA AREA INDIAN HEALTH SERVICE
DONALD.BRAFFORD@IHS.GOV
(916) 930-3981 EXT. 339

SFC SERVICES

1. ***MAINTAIN INVENTORY OF SANITATION DEFICIENCIES***
2. ENVIRONMENTAL ENGINEERING ASSISTANCE
3. PROJECT DEVELOPMENT WITH MULTI-AGENCIES
4. **FUNDING FOR WATER SUPPLY, WASTEWATER, AND SOLID WASTE PROJECTS**
5. PROFESSIONAL DESIGN AND CONSTRUCTION SERVICES
6. ADVOCATE FOR TRIBES ON ENVIRONMENTAL PUBLIC HEALTH ISSUES
7. O&M TRAINING AND TECHNICAL CONSULTATION
8. ***EMERGENCIES FUNDING***

Sanitation Deficiency System (SDS)

The Indian Health Care Improvement Act (IHCIA) requires IHS to:

- Maintain inventories of sanitation deficiencies for new and existing Indian homes and communities.
- Prioritize the correction of deficiencies in the form of projects.
- Annually report these deficiencies to Congress.

The IHS developed the SDS to fulfill these requirements.

IHS has reported and quantified deficiencies to Congress since 1989 in the form of SDS projects.

BACKGROUND INFORMATION

EACH IHS AREA OFFICE ENTERED SDS INFORMATION INTO A COMPUTER DATABASE CALLED THE SANITATION TRACKING AND REPORTING SYSTEM (STARS).

THIS SYSTEM IS COMPRISED OF SEVERAL DATABASES:

- SANITATION DEFICIENCY SYSTEM (**SDS**): A DATABASE USED TO ALLOCATE FUNDING.
- PROJECT DATA SYSTEM (**PDS**): A DATABASE TO TRACK THE PROGRESS OF FUNDED PROJECTS.
- OPERATIONS AND MAINTENANCE DATA SYSTEM (**OMDS**): A DATABASE TO TRACK OPERATION AND MAINTENANCE ISSUES.
- HOUSING INVENTORY TRACKING SYSTEM (**HITS**): A DATABASE TO TRACK INDIVIDUAL HOME SERVICE.

SANITATION TRACKING AND REPORTING SYSTEM (STARS)

Sanitation Tracking and Reporting System (STARS)

Welcome to STARS, a system of the Indian Health Service (IHS).

The mission of the Indian Health Service (IHS) is to raise the health status of the American Indian and Alaska Native people to the highest possible level by providing comprehensive health care and preventive health services. To support the IHS mission, the Division of Sanitation Facilities Construction (DSFC) provides technical assistance and sanitation facilities services to American Indian tribes and Alaska Native villages for cooperative development and continued operation of safe water, wastewater, and solid waste systems and related support facilities. STARS is a web-based database used to track sanitation facilities projects. It also contains information on existing Operation and Maintenance (O&M) organizations serving American Indians and Alaskan Natives (AI/AN).

STARS includes six major data systems:

1. COMMUNITY, also known as CDP (Community Deficiency Profile), has information on the number and types of homes in AI/AN communities;
2. SDS – the Sanitation Deficiency System documents information about sanitation deficiencies related to AI/AN individual homes and communities;
3. PDS – the Project Data System is used to track DSFC sanitation facilities construction projects;
4. HPS – the Housing Priority System is used to document, prioritize, and allocate resource needs for DSFC projects for new and like-new housing;
5. OMDS – the Operation and Maintenance Data System contains information about water, wastewater and solid waste systems serving AI/AN people and the organizations that operate systems; and
6. HITS – the Home Inventory Tracking System is used to track applications for sanitation facilities to individuals and specific home sites.

SELECT AN AREA

Click an area on the map or the list below.

Aberdeen Area	Nashville Area
Alaska Area	Navajo Area
Albuquerque Area	Oklahoma Area
Bemidji Area	Phoenix Area
Billings Area	Portland Area
California Area	Tucson Area

SANITATION DEFICIENCY SYSTEM

SANITATION DEFICIENCY SYSTEM
(SDS)

DRAFT 11/07

INTERIM REVISION
GUIDELINES

2007

Division of Sanitation Facilities Construction
Office of Environmental Health and Engineering
Indian Health Service

Department of Health and Human Services
Public Health Service
Indian Health Service

SDS Guidelines-- 2007

ANNUAL SDS UPDATE

- CURRENT YEAR SDS PROJECTS ARE MAILED TO TRIBES IN MARCH AND APRIL REQUESTING TRIBE'S INPUT ON UPCOMING SDS
- FIELD OFFICE UPDATE SDS AND SUBMITS UPDATE TO THE AREA SFC PROGRAM BY JULY 1
- IHS AREA UPDATES SDS ANNUALLY AND REPORTS TO SFC HQ BY AUGUST 1
- IHS SUBMITS SDS TO CONGRESS BY NOVEMBER 1

ANNUAL SDS UPDATE

- ANNUAL UPDATES ALLOWS SFC TO ADD NEW PROJECTS, UPDATE EXISTING PROJECTS, AND REMOVE FUNDED PROJECTS

- SDS IS THE PRIMARY TOOL TO FUND COMMUNITY PROJECTS FOR IHS REGULAR FUNDS AND FOR EPA CLEAN WATER ACT FUNDS.

- PRELIMINARY ENGINEERING REPORT REQUIREMENTS FOR SDS PROJECTS USING A STANDARD TEMPLATE (USDA, EPA, HUD, IHS).

TYPICAL SDS PROJECTS

- WATER PROJECTS FOR DRINKING WATER SYSTEMS, COMMUNITY OR INDIVIDUAL (E.G. WATER SUPPLY, TREATMENT, DISTRIBUTION)
- SEWER PROJECTS FOR COMMUNITY OR INDIVIDUAL SYSTEMS (E.G. COLLECTION, PUMPING, DISPOSAL, SEPTIC SYSTEMS)
- SOLID WASTE INFRASTRUCTURE (E.G. TRANSFER STATIONS, LANDFILLS).
- ALL DEFICIENCIES AND PROJECTS SHOULD BE FOR <u>EXISTING</u> HOMES AND SYSTEMS.

PROJECT RATING SCORES

EACH PROJECT ON SDS IS SCORED BASED ON THE **EIGHT CATEGORIES** LISTED BELOW. THE SCORE SYSTEM FOR SDS SETS PRIORITY FOR POINTS PRIMARILY ON HEALTH-BASED FACTORS.

SDS PROJECT RATING SCORES/POINTS

- HEALTH IMPACT: 0 TO 30
- EXISTING DEFICIENCY LEVEL: 0 TO 18
- ADEQUATE PREVIOUS SERVICE: 0 TO 4
- CAPITAL COST (AREA): -20 TO 16
- LOCAL TRIBAL PRIORITY: 0 TO 16
- O&M CAPABILITY: 0 TO 16
- CONTRIBUTIONS: 0 TO 8
- LOCAL CONDITIONS FACTOR: -15 TO 0

E TIVE

Printed: 07/08/2008 05:49PM (Eastern) wSTARS Printed By: Rash Jonathan

SDS NARRATIVE

Project/Phase Name: [redacted] Pipe Replacement **Number:** [redacted] (Not Funded) **Priority:** 3 **Econ Feasible:** Y

Area: CALIFORNIA **Community Name:** [redacted] **Project:** 12 **Feasibility Overridden:** N

Tribe: [redacted] **District:** Escondido **Phase:** 01 **IHS Reviewed:** P

EPA PWS ID: **Field Office:** Escondido **Self Gov Code:** C

Engineer: Bush Sean **Last Updated By:** Bush Sean **Last Update:** 06/19/2008

DEFICIENCY LEVELS
Initial: 3 **Final:** 1

RATING SCORES
Health Impact: 15 **Capital Cost:** 16 **Tribal:** 16
Deficiency: 12 **O & M Capability:** 14 **Other Considerations:** 0
Previous Service: 0 **Contribution:** 0 **Total Score:** 73

Community State Code	Home Type	Eligible	Number of Homes	Initial Def. Level	Final Def. Level	First Service	Water Service	Sewer Service	Solid Waste Service	O & M Service
A [redacted]	E1	Y	45	3	1	N	Y	N	N	N
B	E1	Y	40	3	1	N	Y	N	N	N
G	H1	Y	52	3	1	N	Y	N	N	N
H	H1	Y	1	3	1	N	Y	N	N	N
			Total: 138							

COST DATA	IHS Cost	IHS Unit Cost	Eligible Cost	Eligible Unit Cost	Allowable Unit Cost	Contributions	Ineligible Cost	Total Cost
Water:	$213,000	$1,543	$213,000	$1,543	$18,900			$213,000
Sewer:	0	0	$0	$0	$18,900			$0
Solid:	0	0	$0	$0	8,100			$0
O & M:	0	N/A	0	N/A	N/A			$0
Total Cost:	$213,000	$1,543	$213,000	$1,543	$54,000	$0	$0	$213,000

Special Requirements: none

EXISTING DEFICIENCIES:

Water: Numerous locations where piping has failed and forced non routine repairs, more than 5 documented breaks per year. Locations requiring repair include: [redacted] ~600' 6"AC pipe(3 failures), [redacted] spur line is 475' of 3" thin wall (15 repairs made in past 2 years), [redacted] is 350' of undersized 6"AC pipe that has high flow rates during fire flow events and there is 80' of 4" galvanized pipe suspended above [redacted] that has approximately 8 pin hole leaks per 20' section. Additionally, the AC pipe needs to be professionally decommissioned as a health threat during repairs.

Sewer: None

Sol. Wst.: None

O & M: None

PROPOSED FACILITIES:

Water: Replace the [redacted] with 10" C900. Replace the [redacted] spur line with 300' of 6" C900 with a fire hydrant and 175' of 4" C900. Replace the [redacted] with 10" C900. Replace the [redacted] suspended pipe with 4" galvanized steel pipe.

Sewer: None

Sol. Wst.: None

DEFICIENCY LEVELS

Sanitation Deficiency Level		Table 2. Sanitation Deficiency Levels [25 U.S.C. Sec. 1632(g)(4)]	
		Description	Example
V	5	An Indian tribe or community that lacks a safe water supply **and** a sewage disposal system. [Highest priority]	A community or individual home that lacks both a safe water supply and a safe sewage disposal system.
IV	4	An Indian tribe or community with a sanitation system which lacks either a safe water supply system or a sewage disposal system.	A safe community water supply system exists but a safe sewage disposal system (community or individual) does not. A safe community sewage system exists but a safe water supply system (community or individual) does not (does not meet primary drinking water standards).
III	3	An Indian tribe or community with a sanitation system which has an inadequate or partial water supply and a sewage disposal facility that does not comply with applicable water supply and pollution control laws, or has no solid waste disposal facility.	Safe water supply and sewage disposal facilities exist, but there are significant problems with water quantity or the sewage lagoon is overloaded and overflowing and the effluent does not meet permit discharge standards, or there are no solid waste disposal facilities.
II	2	An Indian tribe or community with a sanitation system which complies with all applicable water supply and pollution control laws, and in which the deficiencies relate to capital improvements that are necessary to improve the facilities in order to meet the needs of such tribe or community for domestic sanitation facilities.	Water supply, sewage disposal and solid waste disposal facilities exist, but the water storage tank is too small, or the water well capacity is not adequate, or some of the pipelines are not large enough.
I	1	An Indian tribe or community with a sanitation system which complies with all applicable water supply and pollution control laws, and in which the deficiencies relate to routine replacement, repair, or maintenance needs. A minimum level of technical assistance is required from the IHS.	Fully adequate water supply, sewage disposal and solid waste disposal facilities exist. Typical deficiencies will include worn out pumps, a water storage tank in need of paint, broken water mains, etc.
0	0	No deficiencies to correct.	Projects that do not correct deficiencies.

(2) Existing Deficiency Level: (0 to 18 Points)

Select the deficiency level which most closely fits the deficiency situation to be resolved. See Section on Deficiency Levels for additional guidance and level definitions.

18 Points	Deficiency levels 5 or 4
12 Points	Deficiency level 3
6 Points	Deficiency level 2
0 Points	Deficiency level 1

HEALTH IMPACT: 0 TO 30

CRITERIA FOR HEALTH IMPACT RATING SCORE
SANITATION DEFICIENCY SYSTEM (SDS)

California Area Indian Health Service
Division of Sanitation Facilities Construction
Updated: October 2012

Introduction

The Health Impact represents the reporting or documentation of human health effects directly related to the water, sewer, or solid waste deficiency. A health hazard is a water, sewer, or solid waste condition that could adversely impact human health, but has not affected it at that time.

Scores range from 0 to 30 points. The highest score of 30 points would indicate documented health impacts, such as water quality test results that indicate positive fecal coliform directly attributed to the water system (e.g. wells with no seal that are near a community drainfield).

Although related, the Health Impact is not the same as the Deficiency Level and one category does not necessary determine the other. The Deficiency Level represents the condition of the water, sewer, and solid waste facilities. For example, an individual home site may have a failed drainfield (IDL 4), however, there may be no documented health impacts. An evaluation may indicate that only potential health impacts exist.

Water Source, Quantity, Treatment, and Distribution

30 Points:
- Documented health impacts such as a waterborne disease outbreak. Documentation and test results of water quality (fecal coliform) and clinic results of related disease. Demonstrate clear connection between the sanitation facilities and the disease outbreak; i.e. not a food borne illness.

22 Points:
- Suspected (undocumented) health impact.
- Surface water system with no or minimal treatment (filtration and disinfection) facilities; noncompliance with EPA National Primary Drinking Water Regulations and associated suspected health impact.
- No water supply facilities.
- Individual home hauling water to cisterns.

18 Points:
- Suspected (undocumented) health impact.
- Water source with seasonal outages not related to lack of O&M. Out of water for more than 60 days per year.

- Surface water system with treatment (filtration and disinfection) facilities; however routinely in noncompliance with EPA National Primary Drinking Water Regulations and associated suspected health impact; e.g. high turbidity levels, low CT values, etc.
- Water source without a functioning disinfection system.

15 Points:
- No known or suspected public health impacts, but high potential health hazard exists.
- Water source with seasonal outages not related to lack of O&M. Out of water for more than 40 days per year.
- Single well source and capacity does not meet average daily demand in peak month.
- Water distribution system with documented five or more breaks per year.

12 Points:
- No known or suspected public health impacts, but potential health hazard may exist.
- Water source with seasonal outages not related to lack of O&M. Out of water for more than 20 days per year.
- Improperly protected ground water source; e.g. no well seal/grout.
- Single well source, but capacity meets average day in peak month.
- Water distribution system with undersized mains resulting in residual pressures less than 20 psi during peak demand periods.

8 Points:
- No known or suspected public health impacts and limited potential health hazard exist.
- Water source with seasonal outages not related to lack of O&M. Out of water for more than 10 days per year.
- Water source with successive loss in capacity.
- Insufficient storage to meet design standards; i.e. two-days.
- Water storage facility requires seismic structural repairs/upgrades.
- Water distribution system with undersized mains resulting in residual pressures less than 30 psi during peak demand periods.

4 Points:
- No known or suspected public health impacts and minimal potential health hazard exists.
- Water source with seasonal outages not related to lack of O&M. Out of water for more than 5 days per year.
- Water does not meet EPA National Secondary Drinking Water Regulations; e.g. iron and manganese.
- Water storage facility requires structural repairs and painting.
- Water distribution system with dead-end mains, no flush or fire hydrants, and insufficient fire flows.

0 Points:
- No known or suspected health impact or health hazard. Compliance with all applicable public health standards.

SDS DROUGHT GUIDANCE

Indian Health Service, California Area
Office of Environmental Health and Engineering

Guidance on FY2015 SDS update for drought-related facilities

Note on applicability: The following Deficiency Level (DL) and Health Impact scores will apply for water systems that have a drought vulnerability and risk assessment score of 31 points or greater; which suggests a high or very high vulnerability and risk. Standard SDS guidance will be used for water systems with a score lower than 31 points (e.g. which suggests a very low to medium vulnerability and risk).

Deficiency Level (DL)	Description of deficiency
4	Water source providing less than 30 gpcd for more than 20 days per year (4)
4	Community water source provides less than 35 gpcd for 10 days during the year on a regular basis (4)
4	Seasonal dry wells or springs (4)
4	Individual wells or springs with yields of less than 1 gpm and less than 50 gpcd capacity (new)
4	Significant water leakage problems due to deteriorated piping or joints; leakage exceeds 15 percent of the design flow (3)
4	Water storage tank leakage not associated with piping connections, fittings, controls, etc. (3)
4	Water source does not meet current design standard; e.g. one well design standard, 2 wells needed for community water system (e.g. back-up alternative source) (2)
3	Individual wells or springs with yields of less than 1 gpm or less than 75 gpcd capacity (3)
3	Water meters needed and requested (2) [Tribe should have meter-based rate structure]

Health Impact Score	Description of health impact
20 points	Suspected (undocumented) health impacts from the high to very high drought vulnerability and risk, including the capacity to reliably provide sufficient water to vulnerable populations. Higher health impact scores can be assigned based on suspected and/or documented health impacts for the specific project.

PREVIOUS SERVICE

(3) Adequate Previous Service: (0 to 4 Points)

"Adequate Previous Service" means that piped water and sewer were brought into the home (except for some remote arctic and desert locations) by IHS or with other Federal funds and that the sanitation facilities provided met the existing standards at the time. Outside hand pumps and pit privies, previously provided, are considered to be inadequate. Adequate individual systems to be replaced with community systems are to be considered previous service. The amount of points received in whole numbers is prorated based on the percent of homes with no previous service.

4 Points	No previous service from IHS or any other Federal agency or previous service was not adequate.
2 Points	Half of homes adequately served (either water or sewer or both) by IHS or other Federal agency in previous projects.
0 Points	All homes adequately served by IHS or other Federal agency (water and sewer) in previous projects.

CAPITAL COST

FY 2015 SDS Capital Cost Tables

Indian Health Service, Sanitation Facilities Construction Program
California Area

Headquarters Allowable Unit Cost

California State Total Allowable Unit Cost =	$101,000

Initial Deficiency Level	Allowable Unit Costs			
	Water	Sewer	Solid Waste	Total
IDL 5	$50,500	$50,500		$101,000
IDL 4	$50,500	$50,500		$101,000
IDL 3	$35,350	$35,350	$15,150	$85,850
IDL 2	$20,200	$20,200	$10,100	$50,500

Notes:

1. Headquarters allowable unit cost determines economic feasibility of the SDS project.
2. Unit Costs are calcuated by (All IHS Eligible Funds) / (All IHS Eligible Homes).
3. All IHS eligible funds include contributions from other agencies; e.g. EPA-CWA, EPA-SDWA
4. Projects with Area Unit Costs that exceed Headquarters Allowable Unit Cost should be scored (-20).
5. Costs for both capital improvements and direct service are calculated the same.

CAPITAL COST

Area Allowable Unit Cost for SDS Project Capital Cost Score

Water	
Ineligible Unit Cost (at -20):	$50,500
Amount Per Point Reduced:	$1,500
Amount Per Point Added:	$1,000

Unit Cost From	Unit Cost To	SDS Points
	$50,500	-20
$49,001	$50,500	-16
$47,501	$49,000	-15
$46,001	$47,500	-14
$44,501	$46,000	-13
$43,001	$44,500	-12
$41,501	$43,000	-11
$40,001	$41,500	-10
$38,501	$40,000	-9
$37,001	$38,500	-8
$35,501	$37,000	-7
$34,001	$35,500	-6
$32,501	$34,000	-5
$31,001	$32,500	-4
$29,501	$31,000	-3
$28,001	$29,500	-2
$26,501	$28,000	-1
$25,501	$26,500	0
$24,501	$25,500	1
$23,501	$24,500	2
$22,501	$23,500	3
$21,501	$22,500	4
$20,501	$21,500	5
$19,501	$20,500	6
$18,501	$19,500	7
$17,501	$18,500	8
$16,501	$17,500	9
$15,501	$16,500	10
$14,501	$15,500	11
$13,501	$14,500	12
$12,501	$13,500	13
$11,501	$12,500	14
$10,501	$11,500	15
	$10,500	16

Sewer	
Ineligible Unit Cost (at -20):	$50,500
Amount Per Point Reduced:	$1,500
Amount Per Point Added:	$1,100

Unit Cost From	Unit Cost To	SDS Points
	$50,500	-20
$49,001	$50,500	-16
$47,501	$49,000	-15
$46,001	$47,500	-14
$44,501	$46,000	-13
$43,001	$44,500	-12
$41,501	$43,000	-11
$40,001	$41,500	-10
$38,501	$40,000	-9
$37,001	$38,500	-8
$35,501	$37,000	-7
$34,001	$35,500	-6
$32,501	$34,000	-5
$31,001	$32,500	-4
$29,501	$31,000	-3
$28,001	$29,500	-2
$26,501	$28,000	-1
$25,401	$26,500	0
$24,301	$25,400	1
$23,201	$24,300	2
$22,101	$23,200	3
$21,001	$22,100	4
$19,901	$21,000	5
$18,801	$19,900	6
$17,701	$18,800	7
$16,601	$17,700	8
$15,501	$16,600	9
$14,401	$15,500	10
$13,301	$14,400	11
$12,201	$13,300	12
$11,101	$12,200	13
$10,001	$11,100	14
$8,901	$10,000	15
	$8,900	16

Solid Waste	
Ineligible Unit Cost (at -20):	$15,150
Amount Per Point Reduced:	$800
Amount Per Point Added:	$140

Unit Cost From	Unit Cost To	SDS Points
	$15,150	-20
$14,351	$15,150	-16
$13,551	$14,350	-15
$12,751	$13,550	-14
$11,951	$12,750	-13
$11,151	$11,950	-12
$10,351	$11,150	-11
$9,551	$10,350	-10
$8,751	$9,550	-9
$7,951	$8,750	-8
$7,151	$7,950	-7
$6,351	$7,150	-6
$5,551	$6,350	-5
$4,751	$5,550	-4
$3,951	$4,750	-3
$3,151	$3,950	-2
$2,351	$3,150	-1
$2,211	$2,350	0
$2,071	$2,210	1
$1,931	$2,070	2
$1,791	$1,930	3
$1,651	$1,790	4
$1,511	$1,650	5
$1,371	$1,510	6
$1,231	$1,370	7
$1,091	$1,230	8
$951	$1,090	9
$811	$950	10
$671	$810	11
$531	$670	12
$391	$530	13
$251	$390	14
$111	$250	15
	$110	16

TRIBAL PRIORITY

(5) Local Tribal Priority: (0 to 16 Points)

Tribal consultation is required. Tribal priority setting should be based on established tribal procedures which give consideration to health conditions.

16 Points	The Tribe's highest priority (or only) eligible SDS project.
12 Points	The Tribe's second highest priority eligible SDS project.
8 Points	The Tribe's third highest priority eligible SDS project.
4 Points	The Tribe's fourth highest priority eligible SDS project.
0 Points	All other proposed eligible SDS projects for that Tribe.

A Tribe can have only one project at each priority level; e.g., Tribe cannot have two projects scoring 16 points as their number one priorities. The method of scoring for the local Tribal priority may be modified appropriately to meet the specific needs of the Area; e.g., Areas serving only one Tribe or Areas with a tribally established organization which evaluates projects and recommends priorities.

The tribal priority factor is intended to give the tribe an opportunity to adjust the priority of projects for its tribe. The tribal priority factor is not intended to give one tribe an advantage over another tribe for funding projects with comparable health impact. Areas may utilize the "Other Considerations" factor scoring to compensate for inequities.

O&M CAPABILITY

Indian Health Service
Sanitation Deficiency System – Operation & Maintenance Scoring

WATER SUPPLY

TRIBE:	SCORED BY:	DATE: (mm/dd/yy)

OPERATION (Maximum points possible = (15)	Points*
A. The operators have the appropriate certification level for their PWS (Max. points =2)	
B. Preventive maintenance is performed with a written schedule and records of completion (Max. points =2)	
C. Records are kept on all meters, pumping hours, etc. and analyzed (Max. points =2)	
D. Sufficient repair parts, tools, & equipment to maintain water production are on hand (Max. points =1)	
E. A safety program is in place, with training and equipment provided (Max. points =1)	
F. Operators attended at least 10 hours of training during last year (Max. points =1)	
G. Accurate and updated as built/system maps available, maintained, & properly stored (Max. points = 4)	
H. Treatment facilities, well heads, and storage tanks secure (Max. points =2)	
Subtotal	0

COMPLIANCE (Maximum points possible = 12)	
A. PWSs were in compliance for monitoring during the last year (Max. points = 10)	
B. The tribal utility organization participates with IHS and EPA in sanitation facility surveys and capacity development and corrects noted deficiencies (Max. points = 2)	
Subtotal	0

BUDGET & ORGANIZATION (Maximum points possible = 13)	
A. Written rules and regulations governing the O&M of the PWS have been developed, approved, and enforced (Max. points =2)	
B. A budget is prepared and tracked on a regular basis (Max. points =1)	
C. The user fee structure is implemented (Max. points = 8)	
D. Written emergency response plan in place (Max. points = 2)	
Subtotal	0

TOTAL POINTS	0
ADJUSTED SCORE (Total Points X 0.40) 0.4000	0

*see WATER SUPPLY O&M SCORING INSTRUCTIONS

Indian Health Service
Sanitation Deficiency System – Operation & Maintenance Scoring

WATER SUPPLY - O&M SCORING INSTRUCTIONS

OPERATION	
A. The operators have the appropriate certification level for their PWS	
>1 certified operator	2
1 certified operator	1
Does not have a certified operator	0
B. Preventive maintenance is performed with a written schedule and records of completion	
Fully executed preventive maintenance program	2
Does not have a preventive maintenance program	0
C. Records are kept on all meters, pumping hours, etc. and analyzed	
Operators keep and analyze records	2
No records are kept	0
D. Sufficient repair parts, tools, and equipment to maintain water production are on hand	
Majority of necessary parts, tools, and equipment on hand	1
Minimal or no parts	0
E. A safety program is in place, with training and equipment provided	
Operators are trained and use safety equipment	1
Operators lack safety training and equipment	0
F. Operators attended at least 10 hours of training during the last year	
1 operator attended 10 hours of training	1
Operators did not attend 10 hours of training	0
G. Accurate and updated as built/system maps available, maintained, & properly stored	
Comprehensive set of as-builts maintained and easily accessed	4
As-builts for 50% of facilities are maintained and easily accessed	2
No as-builts maintained	0
H. Treatment facilities, well heads, and storage tanks secure	
Treatment facilities are fenced and well head and storage tank access secured	2
Treatment facilities are not fenced and well head and tank access is not secured	0
COMPLIANCE	
A. PWSs were in compliance for monitoring during the last year	
Zero notices of non-compliance	10
1 notice of non-compliance with appropriate response	5
2 or more notices of non-compliance	0
B. The tribal utility organization participates with IHS and EPA in sanitation facility surveys and capacity development and corrects noted deficiencies	
Participated and corrected all deficiencies	2
Did not participate or correct deficiencies	0
BUDGET & ORGANIZATION	
A. Written rules and regulations governing the O&M of the PWS have been developed, approved, and enforced	
Ordinances are enforced	2
No ordinances or not enforced	0
B. A budget report is prepared and tracked on a regular basis	
Reports are prepared to identify potential issues	1
Reports are not generated	0

CONTRIBUTIONS

(7) Contributions: (0 to 8 Points)

The "Tribal Contributions" factor is optional per collective tribal consultation and should be applied uniformly for all tribes and all projects across the Area. Prorate points based on amount of contributions received from others. The contributed funds must be available to be spent during the next fiscal year. Points are applied only for contributions to serve eligible homes.

5-8 Points	Up to 50 percent or more of the project costs normally funded by IHS are other than IHS funds (count contributions for IHS eligible homes only).
1-4 Points	Up to 25 percent of the project costs normally funded by IHS are other than IHS funds.
0 Points	No funds other than IHS funds for construction.

OTHER CONSIDERATIONS

(8) Other Considerations Factor: (0 to -15)

The "Other Considerations" scoring field should only be used as a negative value and only with specific tribal concurrence. Points for this factor should only be assigned in unusual situations and only by the Director, Division of Sanitation Facilities Construction, for the Area. The reason for assigning points to this factor must be documented and could include:

a. The need to phase projects,
b. Coordination with other agencies,
c. Project impediments such as legal disputes or jurisdictional disputes,
d. A backlog of current projects,
e. Significant in-kind contributions,
f. An emergency situation, or
g. Necessary adjustments for the tribal priority factor scoring.

The documentation should be maintained in the Area Office files.

E TIVE

Printed: 07/08/2008 05:49PM (Eastern) wSTARS Printed By: Rash Jonathan

SDS NARRATIVE

Project/Phase Name: [redacted] Pipe Replacement **Number:** [redacted] (Not Funded) **Priority:** 3 **Econ Feasible:** Y

Area: CALIFORNIA **Community Name:** [redacted] **Project:** 12 **Feasibility Overridden:** N

Tribe: [redacted] **District:** Escondido **Phase:** 01 **IHS Reviewed:** P

EPA PWS ID: **Field Office:** Escondido **Self Gov Code:** C

Engineer: Bush Sean **Last Updated By:** Bush Sean **Last Update:** 06/19/2008

DEFICIENCY LEVELS
Initial: 3 **Final:** 1

RATING SCORES
Health Impact: 15 **Capital Cost:** 16 **Tribal:** 16
Deficiency: 12 **O & M Capability:** 14 **Other Considerations:** 0
Previous Service: 0 **Contribution:** 0 **Total Score:** 73

Community State Code	Home Type	Eligible	Number of Homes	Initial Def. Level	Final Def. Level	First Service	Water Service	Sewer Service	Solid Waste Service	O & M Service
A [redacted]	E1	Y	45	3	1	N	Y	N	N	N
B	E1	Y	40	3	1	N	Y	N	N	N
G	H1	Y	52	3	1	N	Y	N	N	N
H	H1	Y	1	3	1	N	Y	N	N	N
			Total: 138							

COST DATA	IHS Cost	IHS Unit Cost	Eligible Cost	Eligible Unit Cost	Allowable Unit Cost	Contributions	Ineligible Cost	Total Cost
Water:	$213,000	$1,543	$213,000	$1,543	$18,900			$213,000
Sewer:	0	0	$0	$0	$18,900			$0
Solid:	0	0	$0	$0	8,100			$0
O & M:	0	N/A	0	N/A	N/A			$0
Total Cost:	$213,000	$1,543	$213,000	$1,543	$54,000	$0	$0	$213,000

Special Requirements: none

EXISTING DEFICIENCIES:

Water: Numerous locations where piping has failed and forced non routine repairs, more than 5 documented breaks per year. Locations requiring repair include: [redacted] ~600' 6"AC pipe(3 failures), [redacted] spur line is 475' of 3" thin wall (15 repairs made in past 2 years), [redacted] is 350' of undersized 6"AC pipe that has high flow rates during fire flow events and there is 80' of 4" galvanized pipe suspended above [redacted] that has approximately 8 pin hole leaks per 20' section. Additionally, the AC pipe needs to be professionally decommissioned as a health threat during repairs.

Sewer: None

Sol. Wst.: None

O & M: None

PROPOSED FACILITIES:

Water: Replace the [redacted] with 10" C900. Replace the [redacted] spur line with 300' of 6" C900 with a fire hydrant and 175' of 4" C900. Replace the [redacted] with 10" C900. Replace the [redacted] suspended pipe with 4" galvanized steel pipe.

Sewer: None

Sol. Wst.: None

PRELIMINARY ENGINEERING REPORT

Preliminary Engineering Report

Indian Health Service
California Area
Sanitation Facilities Construction
Public Law 86-121

Project Name:	ABC Water System Improvements
Community:	Community ABC
Tribe:	Tribe ABC
SDS Project Number:	CA [XXXXX-XXXX]

Prepared by (signature):	*Place PE stamp here*
Name of Engineer:	
Date:	

Indian Health Service, California Area
Sanitation Facilities Construction
Preliminary Engineering Report

OUTLINE OF A PRELIMINARY ENGINEERING REPORT

1) EXECUTIVE SUMMARY

2) INTRODUCTION

3) PROJECT PLANNING AREA
   A. Location
   B. Environmental Resources Present
   C. Growth Areas and Population Trends

4) EXISTING FACILITIES
   A. Location Map
   B. History
   C. Condition of Facilities

5) NEED FOR PROJECT
   A. Health
   B. Aging Infrastructure
   C. Reasonable Growth

6) ALTERNATIVES CONSIDERED
   A. Description
   B. Design Criteria
   C. Map
   D. Environmental Impacts
   E. Land Requirements
   F. Potential Construction Problems
   G. Cost Estimates
   H. Life Cycle Costs
   I. Capacity of the Tribe to Operate and Maintain
   J. Other Factors

7) SELECTION OF AN ALTERNATIVE
   A. Life Cycle Cost Analysis
   B. Non-Monetary Factors
   C. Decision Matrix

8) PROPOSED PROJECT (RECOMMENDED ALTERNATIVE)
   A. Preliminary Project Design
   B. Project Schedule
   C. Permit Requirements
   D. Total Project Cost Estimate
   E. Annual Operating Budget
   F. Operation and Maintenance Needs
   G. Environmental Assessment

9) CONCLUSIONS AND RECOMMENDATIONS

PROJECT DEVELOPMENT PLAN

Project Development Plans and Project Engineering Report: A PDP and a PER are required for projects to be considered for funding, in accordance with SFC national requirements. For more information, see the CA Area Guidance Document: *Section 0335 – Project Reconnaissance and Development PDP and PER (03/2013)*.

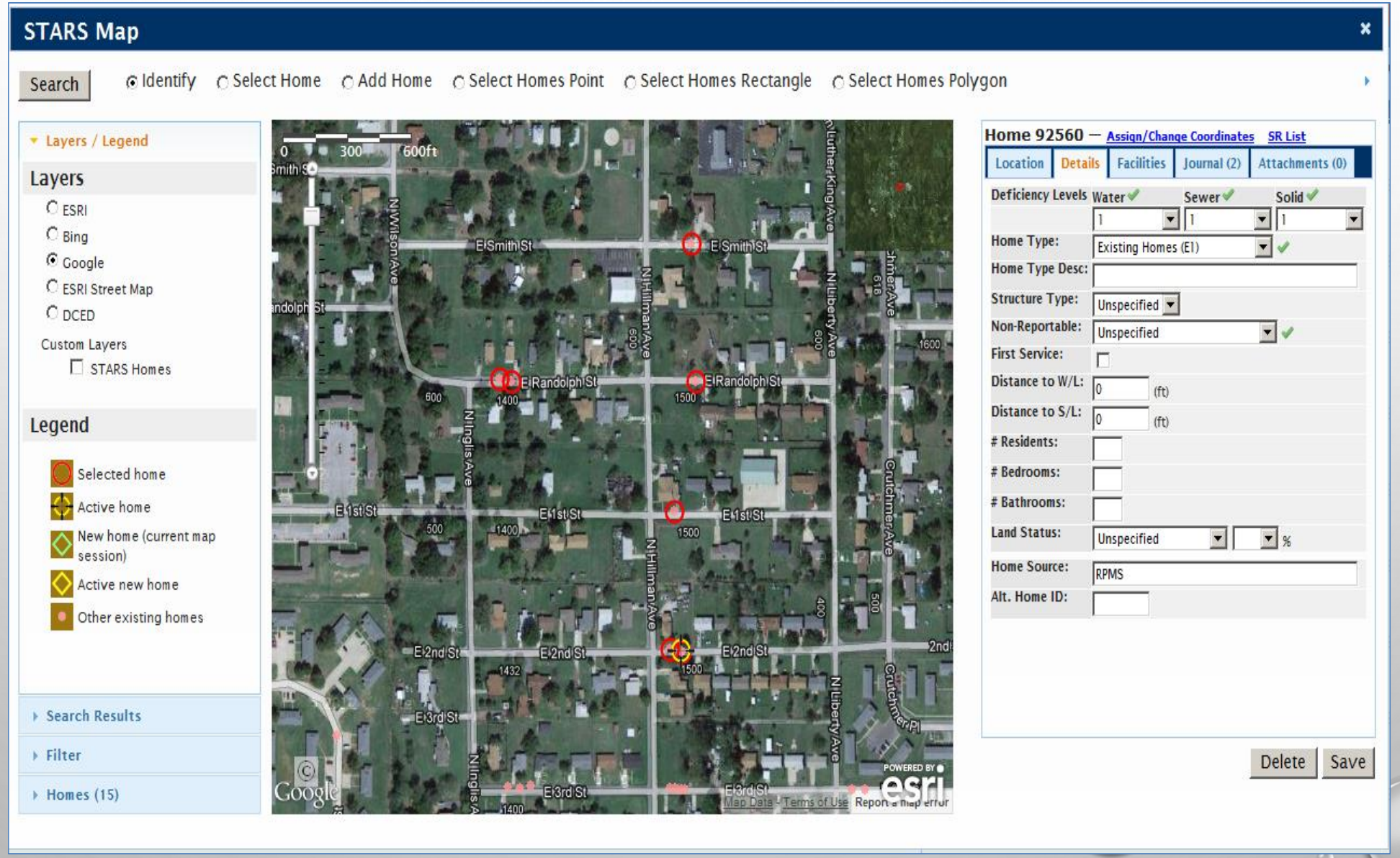
The PDP serves as the initial reconnaissance document and notes any critical planning services and their costs required to support design development. The general approach is to fund and complete critical planning services before the construction project is funded.

The PER is required for high score projects in order to be considered for funding. In general, the PER provides more detail on the deficiencies and a recommended alternative. The PER should adhere to the SFC national template with only minor modifications to match the project's complexity.

HOME INVENTORY TRACKING SYSTEM (HITS) -

- HITS IS AN HOUSING INVENTORY TRACKING SYSTEM, WHICH IS A MODULE OF STARS, THE SANITATION TRACKING AND REPORTING SYSTEM.
- HITS WAS DESIGNED PRIMARILY AS SYSTEM TO TRACK SERVICE REQUESTS FOR WATER AND WASTEWATER SYSTEMS AT INDIAN HOMES.
- INDIVIDUAL HOMES WERE NOT COMPREHENSIVELY TRACKED, AND INSTEAD COMMUNITY DEFICIENCY PROFILES, OR CDP'S WERE TRACKED IN THE COMMUNITY MODULE OF STARS.
- THE HITS MODULE HAS CAPABILITIES THAT ALLOW FOR THE COMPREHENSIVE TRACKING OF INDIVIDUAL HOMES, AND INCLUDE A BUILT-IN MAPPING CAPABILITY.

HITS


STARS Map
Search
Identify
Select Home
Add Home
Select Homes Point
Select Homes Rectangle
Select Homes Polygon
Layers / Legend
Layers
ESRI
Bing
Google
ESRI Street Map
DCED
Custom Layers
STARS Homes
Legend
Selected home
Active home
New home (current map session)
Active new home
Other existing homes
Search Results
Filter
Homes (15)
0 300 600ft
E Smith St
E Randolph St
E 1st St
E 2nd St
E 3rd St
N Wilson Ave
N Hillman Ave
N Inglis Ave
N Liberty Ave
Crutchmer Ave
Martin Luther King Ave
Google
Map Data Terms of Use Report a map error
POWERED BY esri
Home 92560 — Assign/Change Coordinates SR List
Location
Details
Facilities
Journal (2)
Attachments (0)
Deficiency Levels
Water
Sewer
Solid
Home Type:
Existing Homes (E1)
Home Type Desc:
Structure Type:
Unspecified
Non-Reportable:
First Service:
Distance to W/L:
Distance to S/L:
(ft)
Residents:
Bedrooms:
Bathrooms:
Land Status:
Home Source:
RPMS
Alt. Home ID:
Delete
Save

HITS Initiative

- Count ALL AI/AN homes by end of year 2013
- Convert CDP Housing Groups to individual homes with lat/long

- Phase I
  - ✓ HITS instruction Manual - in STARS library July 2010
  - ✓ Home profile functionality
  - ✓ Maps/imagery

- Phase II
  - ✓ Import
  - ✓ Mobile App
  - ➢ Enhance workflow with Service Requests
  - ➢ Enhanced Map Viewer

- Phase III
  - ➢ Auto calc of DL throughout STARS
  - ➢ Use HITS homes throughout STARS SDS/PDS/OMDS….

HITS Initiative

Community – AK CHIN

CDP Housing Groups:

Location Description	Home Type	Number Homes	Water I.D.L.	Sewer I.D.L.	Solid I.D.L.	Comments
Main Community	E1 - Existing Homes	242	3	1	1	
Farms	E1 - Existing Homes	5	3	3	1	
Main Community	H1 - HUD Housing	32	3	1	1	

Add CDP Homes Record

	ALL UNITS					INDIAN UNITS (No E2 or E3)				
	1	2	3	4	5	1	2	3	4	5
Water	0	0	279	0	0	0	0	279	0	0
Sewer	274	0	5	0		274	0	5	0	
Solid Waste	279	0	0			279	0	0		
	Total Homes				279	Total Homes				279

Individual Homes:

	ALL UNITS					INDIAN UNITS					REPORTABLE UNITS					
	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	
Water	0	0	5	0	0	Water	0	0	5	0	0	Water	0	0	5	0	0	
Sewer	0	0	5	0		Sewer	0	0	5	0		Sewer	0	0	5	0		
Solid Waste	5	0	0			Solid Waste	5	0	0			Solid Waste	5	0	0			
Total Homes:					5	Total Homes:					5	Total Homes:					5	

Show Selected Homes on Map

Details:

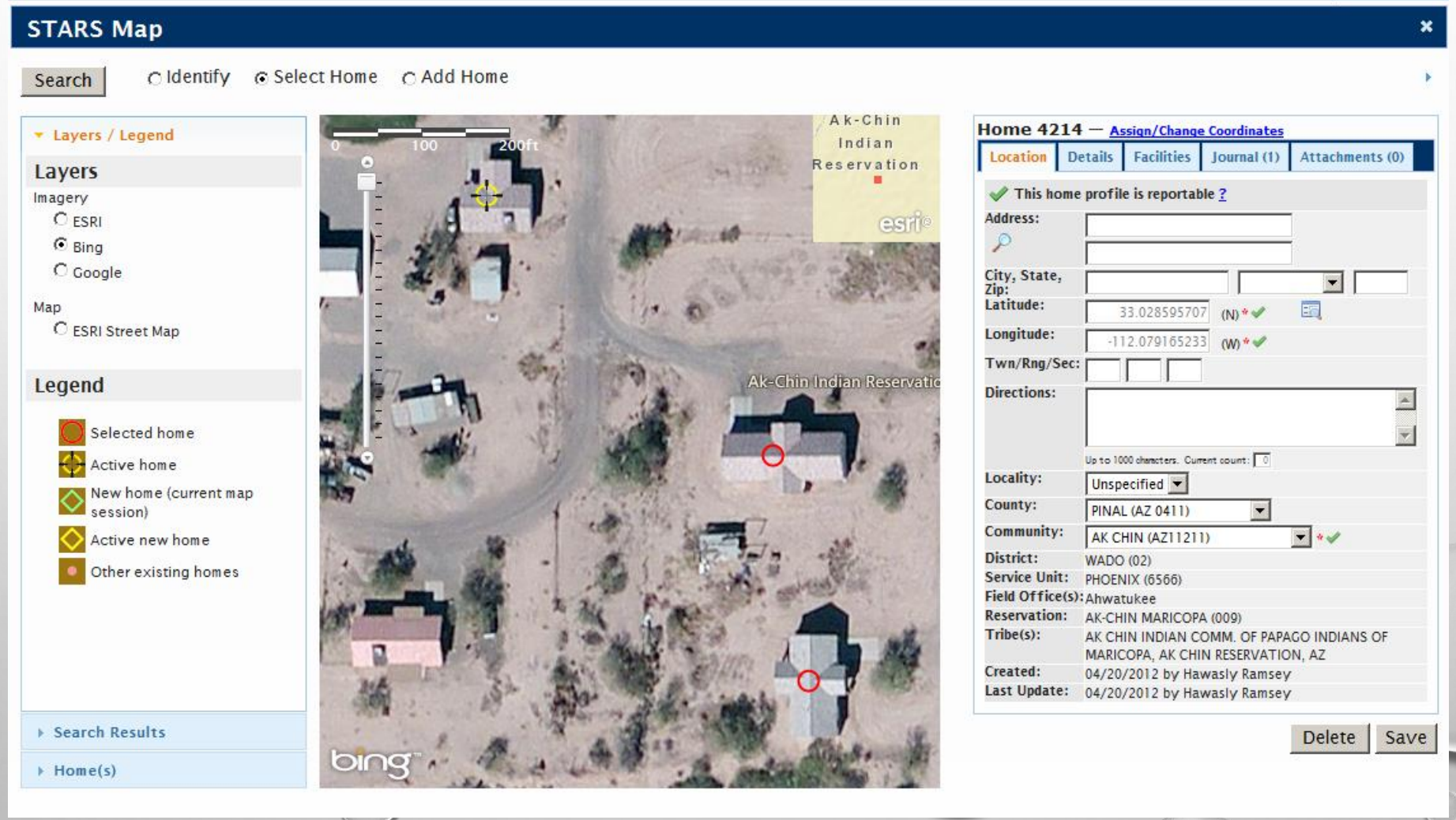
		Home	Home Type	Water DL	Sewer DL	Solid Waste DL	Latitude	Longitude	*Reportable	Last Update	Last Updated By
☐	1.	4210	E1 - Existing Homes	3	3	1	33.028136959	-112.078564418	Yes	04/20/2012	Hawasly Ramsey
☐	2.	4211	E1 - Existing Homes	3	3	1	33.028118968	-112.077840222	Yes	04/20/2012	Hawasly Ramsey
☐	3.	4212	E1 - Existing Homes	3	3	1	33.027741174	-112.078489316	Yes	04/20/2012	Hawasly Ramsey
☐	4.	4213	E1 - Existing Homes	3	3	1	33.027691701	-112.077566636	Yes	04/20/2012	Hawasly Ramsey
☐	5.	4214	E1 - Existing Homes	3	3	1	33.028595707	-112.079165233	Yes	04/20/2012	Hawasly Ramsey

* In order to be counted as **Reportable** a home must:

- Be associated with a community
- Have a home type assigned (not E2 or E3)
- Have deficiency levels assigned
- Have latitude and longitude specified
- *Not* have a "Non-Reportable" reason selected

HITS Initiative

HITS Initiative



HITS Initiative

- Reportable Home

> * In order to be counted as **Reportable** a home must:
>
> - Be associated with a community
> - Have a home type assigned (not E2 or E3)
> - Have deficiency levels assigned
> - Have latitude and longitude specified
> - *Not* have a "Non-Reportable" reason selected

- Non Reportable Conditions (Area Specific) – Makes a home non-reportable
  - Abandoned Home
  - Vacant Lot, etc..

- E2 – Non Indian
- E3 – Non Residential Units

HITS Initiative

Reportable

* In order to be counted as **Reportable** a home must:

- Be associated with a community
- Have a home type assigned (not E2 or E3)
- Have deficiency levels assigned
- Have latitude and longitude specified
- *Not* have a "Non-Reportable" reason selected

Adding - Lat/Long to what we already do

CDP Housing Groups:

Location Description	Home Type	Number Homes	Water I.D.L.	Sewer I.D.L.	Solid I.D.L.	Comments
Main Community	E1 - Existing Homes	242	3	1	1	
Farms	E1 - Existing Homes	5	3	3	1	
Main Community	H1 - HUD Housing	32	3	1	1	

Add CDP Homes Record

	ALL UNITS						INDIAN UNITS (No E2 or E3)					
	1	2	3	4	5		1	2	3	4	5	
Water	0	0	279	0		0	0	0	279	0		0
Sewer	274	0	5	0			274	0	5	0		
Solid Waste	279	0	0				279	0	0			
	Total Homes				279		Total Homes				279	

HITS Implementation Progress Report 7-28-2014

		Reportable Homes - Calculated DL's									
Area	Total HITS Homes	0	1	2	3	4	5	Total	% relative CDP to HITS total	% relative CDP Indian homes to HITS reportable	Regular Funds Allocation Factors (HITS Reportable Calculated/CDP)
AB	32,885	3,578	220	4,823	13,022	3,011	19	24,673	62%	98%	81%
AL	19,111	1,500		7,750	5,246	809	2	15,307	114%	97%	44%
AN	26,617	4,389	313	1,392	8,132	849	1,999	17,074	101%	98%	66%
BE	21,466	8,527	23	4,126	6,821	666	9	20,172	52%	53%	97%
BI	9,854	3,766		572	3,451	536		8,325	58%	55%	49%
CA	43,763	18,920		10,514	6,345	4,773	838	41,390	207%	307%	194%
NA	91,715	11,154	381	2,329	37,765	600	2,947	55,176	163%	100%	80%
NS	18,952	6,790	80	4,168	6,583	505	23	18,149	77%	79%	81%
OK	156,590	98,958	5	1,799	33,977	8,943	530	144,212	58%	88%	78%
PH	23,546	6,712	16	2,080	5,807	3,295	1,049	18,959	66%	72%	78%
PO	13,571	4,628	135	999	1,290	318		7,370	51%	48%	20%
TU	14,894	5,436		2,732	1,452	714	11	10,345	270%	207%	91%
Total	472,964	174,358	1,173	43,284	129,891	25,019	7,427	381,152	79%	92%	78%

Legacy CDP Homes Data 11/14/2013

		Indian Homes						
Area	Total CDP Homes	0	1	2	3	4	5	Total
AB	52,792	60	2,297	4,776	12,850	5,021	282	25,286
AL	16,775	44	1,290	4,404	4,283	5,541	209	15,771
AN	26,343	4	673	494	11,750	890	3,700	17,511
BE	41,049	53	24,355	5,477	7,350	527		37,762
BI	17,090	-	3,291	3,598	7,022	1,063	33	15,007
CA	21,127	-	4,410	2,320	4,420	1,921	393	13,464
NA	56,412	402	5,652	2,610	37,361	4,097	5,237	55,359
NS	24,699	2	5,911	7,906	8,840	223	50	22,932
OK	272,101	312	108,395	4,148	33,689	16,156	738	163,438
PH	35,735	2	5,289	7,866	7,644	4,787	719	26,307
PO	26,734	1	1,158	5,913	7,204	1,169	63	15,508
TU	5,520	-	25	2,169	2,442	337	35	5,008
Total	596,377	880	162,746	51,681	144,855	41,732	11,459	413,353

EOY 2013 Data

Area	Feasible Costs (IDL3 + IDL4 + IDL5)	% Costs	Homes IDL3 + 2(IDL4 + IDL5)	% Homes	Ave. %	Funds Allocated
AB	150,411,929	12.12	23,456	9.79	10.96	$4,645,000.00
AL	35,906,000	2.89	15,783	6.59	4.74	$2,010,000.00
AN	440,596,038	35.50	20,930	8.74	22.12	$9,378,000.00
BE	49,018,669	3.95	8,404	3.51	3.73	$1,581,000.00
BI	21,923,840	1.77	9,214	3.85	2.81	$1,190,000.00
CA	72,121,320	5.81	9,048	3.78	4.79	$2,033,000.00
NA	256,994,999	20.71	56,029	23.39	22.05	$9,349,000.00
NS	37,963,888	3.06	9,386	3.92	3.49	$1,479,000.00
OK	95,877,014	7.72	55,764	23.28	15.50	$6,573,000.00
PH	51,843,485	4.18	18,656	7.79	5.98	$2,537,000.00
PO	14,377,958	1.16	9,668	4.04	2.60	$1,101,000.00
TU	14,140,500	1.14	3,186	1.33	1.23	$524,000.00
Totals	1,241,175,640	100.00	239,524	100	100	$42,400,000.00

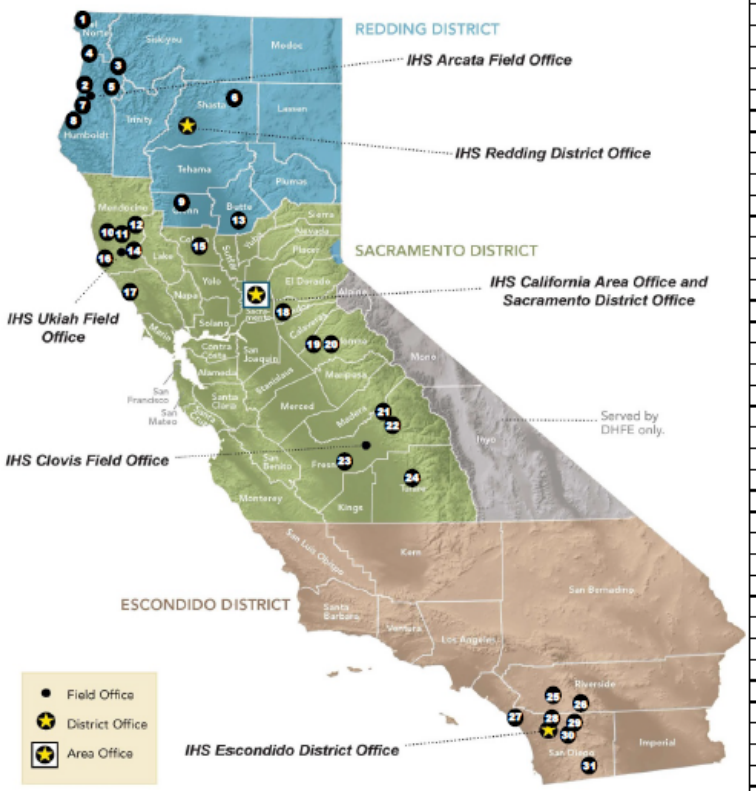
Current Data Using Calculated HITS Homes (Scenario)

Area	Feasible Costs (IDL3 + IDL4 + IDL5)	% Costs	Homes IDL3 + 2(IDL4 + IDL5)	% Homes	Ave. %	Funds Allocated	Difference
AB	164,037,588	11.68	19,082	9.80	10.74	$4,553,000.00	($92,000.00)
AL	28,776,000	2.05	6,868	3.53	2.79	$1,182,000.00	($828,000.00)
AN	447,803,949	31.89	13,828	7.10	19.49	$8,266,000.00	($1,112,000.00)
BE	61,561,906	4.38	8,171	4.19	4.29	$1,819,000.00	$238,000.00
BI	20,134,165	1.43	4,523	2.32	1.88	$796,000.00	($394,000.00)
CA	164,362,239	11.71	17,567	9.02	10.36	$4,393,000.00	$2,360,000.00
NA	267,775,411	19.07	44,859	23.03	21.05	$8,925,000.00	($424,000.00)
NS	48,896,128	3.48	7,639	3.92	3.70	$1,570,000.00	$91,000.00
OK	111,747,230	7.96	52,923	27.17	17.56	$7,447,000.00	$874,000.00
PH	57,755,445	4.11	14,495	7.44	5.78	$2,450,000.00	($87,000.00)
PO	13,012,218	0.93	1,926	0.99	0.96	$406,000.00	($695,000.00)
TU	18,334,000	1.31	2,902	1.49	1.40	$593,000.00	$69,000.00
Totals	1,404,196,279	100.00	194,783	100.00	100.00	$42,400,000.00	

2014 DROUGHT

Tribal water systems at highest risk due to drought conditions:

Updated June 20, 2014 – Updates will be made as conditions change and information becomes available.



Map #	Tribe	County	System Name	Source (GW,SW,IC)
1	Smith River Rancheria	Del Norte	Howonquet	SW
2	Trinidad Rancheria	Humboldt	n/a	SW, IC
3	Karuk Tribe	Siskiyou	Somes Bar	SW
3	Karuk Tribe	Siskiyou	Happy Camp CSD	SW
3	Karuk Tribe	Humboldt	Orleans CSD	SW
3	Karuk Tribe	Humboldt	Orleans Mutual Wtr Co	SW
4	Yurok	Humboldt	Kepel	SW
4	Yurok	Humboldt	Wautec	SW
4	Yurok	Humboldt	Weitchpec	SW
4	Yurok	Del Norte	Klamath	GW
5	Hoopa Valley Tribe	Humboldt	n/a	SW
6	Pit River	Shasta	Montgomery	GW
6	Pit River	Shasta	XL	GW
7	Wiyot Tribe	Humboldt	n/a	GW
8	Bear River Band	Humboldt	Old Rancheria	GW
9	Grindstone Rancheria	Glenn	n/a	SW
10	Sherwood Valley	Mendocino	City of Willits	IC
10	Sherwood Valley	Mendocino	Original Sherwood Valley Rancheria	GW
11	Sherwood Valley	Mendocino	Eastside Ranch-Lockhart	GW
12	Redwood Valley Rancheria	Mendocino	n/a	SW, IC
13	Enterprise Rancheria	Butte	n/a	GW
14	Coyote Valley	Mendocino	n/a	GW, IC
15	Cortina	Colusa	n/a	GW
16	Manchester/Pt Arena	Mendocino	Pt Arena Side	GW
17	Kashia Band of Pomo India	Sonoma	n/a	SW
18	Ione Band of Miwoks	Amador	n/a	GW
19	Chicken Ranch	Tuolumne	n/a	GW
20	Tuolumne	Tuolumme	n/a	GW, SW
21	Big Sandy	Fresno	n/a	GW
22	Cold Springs	Fresno	Coyote Drive system	GW
22	Cold Springs	Fresno	Main	GW
23	Santa Rosa Rancheria	Fresno	n/a	GW
24	Tule River	Tulare	Main	SW,GW
24	Tule River	Tulare	Apple Valley	GW
25	Torres Martinez	Riverside	Clinic System	GW
25	Torres Martinez	Riverside	Avenue 64 System	GW
26	Santa Rosa Reservation	Riverside	Santa Rosa Water System	GW
27	Pauma	San Diego	n/a	GW
28	San Pasqual	San Diego	Main	GW, IC
28	San Pasqual	San Diego	Western System District B	IC
29	Mesa Grande	San Diego	Main System	GW
30	Santa Ysabel	San Diego	Main System	GW
30	Santa Ysabel	San Diego	Ortega System	GW
31	La Posta	San Diego	Upper System	GW
31	La Posta	San Diego	Lower System	GW

Source: Indian Health Service California Area Office of Environmental Health and Engineering. Based on vulnerability and risk assessment scores.

Total Systems to Date = 45

2014 DROUGHT PROJECTS

Printed: 07/23/2014
04:31PM (Eastern)

STARS

SDS ONE-LINE LISTING - DRAFT

Project	Project Name	Tribe	Res.	Dist.	Office	Pri.	DL	DL	Score	Contributions	Cost (Eligible)
CA08360-0701	DRT YUROK Klamath Well Replacement	410	78	1	11	1	4	1	84	0	125,000
CA37466-1201	DRT LA JOLLA Water Main Red Gate Rd	303	997	3	30	3	4	1	84	0	219,300
CA37472-1201	DRT PAUMA Small Tank Replacement	305	130	3	30	4	4	1	84	0	275,576
CA37474-0901	DRT SAN PASQUAL - Dist A Well #3 Treatment	337	164	3	30	5	4	1	84	0	577,300
CA25416-0301	DRT PR XL Rancheria Back-up Water Source	383	210	1	10	7	4	1	82	0	186,000
CA37471-0501	DRT PALA NORTH Water Main Replacement	304	997	3	30	8	4	1	82	0	415,300
CA37475-2201	DRT SANTA YSABEL Main System Connection	338	171	3	30	9	4	1	82	0	307,000
CA25413-0701	DRT FT Bidwell Watermeter, Watermain, and We	347	57	1	10	11	4	1	80	0	544,000
CA11346-1101	DRT Grindstone Renovate Upper Tank	435	74	1	10	12	4	1	80	0	66,700
CA37474-0401	DRT SAN PASQUAL Dist. A New Well	337	164	3	30	13	4	1	80	0	968,100
CA11346-0701	DRT Grindstone Backup Water Source Phase 2	435	74	1	10	15	4	1	78	0	473,000
CA12392-0701	DRT YUROK Weitchpec Water Station	410	78	1	11	16	4	1	78	201,770	270,205
CA54512-1101	DRT Tule River - Water Well	162	197	2	22	17	4	1	78	0	189,400
CA33442-1301	DRT TORRES-MARTINEZ 64th AVENUE WATE	262	194	3	30	18	4	1	78	0	74,000
CA37473-0801	DRT RINCON Water Service Replacement	307	148	3	30	19	4	1	78	0	449,000
CA11346-0501	DRT Grindstone Water Storage Tank	435	74	1	10	20	3	1	78	0	291,000
CA33440-0301	DRT SANTA ROSA Water Storage Tank	427	168	3	30	23	4	1	76	0	399,000
CA37477-0201	DRT VIEJAS AC Water Main Replacement	340	252	3	30	24	4	1	76	0	136,300
CA45214-0401	DRT Redwood Valley Community Well	399	291	2	21	26	4	1	75	0	405,000
CA12393-0502	DRT Orleans CSD Water Storage	216	79	1	11	28	4	1	74	483,000	230,000
CA12352-0501	DRT Blue Lake Water Storage	421	278	1	11	29	3	1	74	452,000	141,000
CA47815-9002	DRT Happy Camp Water Storage	216	997	1	10	30	4	1	73	718,000	298,000
CA18839-0501	DRT Susanville Upper Sys. Water Meter and PR	430	188	1	10	33	3	1	72	0	465,000
CA12353-2601	DRT URGENT YUROK Potable Water Truck	410	78	1	11	38	4	1	70	0	224,442
CA12353-2901	DRT URGENT YUROK Emergency Water Ratior	410	78	1	11	39	4	1	70	34,500	54,500
CA12393-0501	DRT Orleans MWC Water Meters	216	79	1	11	40	4	1	70	89,000	46,000
CA08333-1601	DRT Smith River Water System Inter-Tie	429	293	1	11	41	4	1	70	22,000	152,000
CA37467-0201	DRT LA POSTA Upper Sys Tank Rehabilitation	334	96	3	30	43	4	1	69	34,857	87,143
CA11346-0901	DRT Grindstone Lower Tank - Altitude Valve Rer	435	74	1	10	44	3	1	68	4,000	64,600
CA37462-1501	DRT CAMPO SOUTH SYSTEM NEW WELL	331	998	3	30	45	4	1	68	0	345,800
CA37466-1101	DRT LA JOLLA Lower Sys WM Replacement	303	997	3	30	46	4	1	68	0	260,000
CA12515-0901	DRT Trinidad Water Storage	422	195	1	11	49	3	1	67	36,000	516,000
CA10341-0501	DRT Big Sandy Water Well	417	238	2	22	54	4	1	66	0	198,200
CA37471-0701	DRT PALA SOUTH Water Main Replacement an	304	997	3	30	56	4	1	65	0	457,500
CA08360-1201	DRT YUROK Klamath Regional Water InterTie	410	78	1	11	61	4	1	64	0	2,422,226
CA10342-0101	DRT Cold Springs Water Well	418	239	2	22	66	4	1	62	0	172,500
CA16376-0401	DRT Santa Rosa Water Well	261	169	2	22	67	4	1	62	0	211,400
CA55516-0101	DRT Tuolumne Water Well	324	198	2	22	68	4	1	62	0	179,400
CA06327-0101	DRT Cortina Well Water	407	37	2	20	70	4	1	61	0	165,100
CA17410-0501	DRT-Big Valley Water Treatment Improvements	420	277	2	21	71	3	1	61	0	398,148
CA37464-0401	DRT EWIIAAPAAYP CWS Ph 1	333	41	3	30	75	4	1	60	0	60,900
CA37464-0402	DRT EWIIAAPAAYP CWS Ph 2	333	41	3	30	77	4	1	59	0	43,900
CA12356-0801	DRT Wiyot-Table Bluff Well Improvements	431	274	1	11	79	3	1	59	31,000	357,000
CA23487-0201	DRT Manchester/Point Arena Water	395	107	2	21	83	4	3	59	0	120,000
CA08332-1401*	DRT RESIGHINI Water Improvements	409	147	1	11	86	4	1	58	0	318,800
CA23406-0401	DRT-Sherwood Valley (old) - Water Main	401	295	2	21	89	3	1	58	0	269,000
CA23509-0101	DRT-Sherwood Valley - Water	401	295	2	21	93	3	1	58	0	150,000
CA12373-0501	DRT YUROK Kep'el Water Station	410	78	1	11	96	4	1	57	0	604,300
CA49505-0401	DRT-Stewarts Pt Water	394	184	2	21	124	3	1	53	0	80,000
CA99210-0101	DRT Chicken Ranch Water Well Project	321	281	2	22	126	4	0	51	0	163,600
CA12353-2801	DRT YUROK Upriver Water Main Replacement	410	78	1	11	194	4	1	44	0	2,654,000
CA12355-0301*	DRT Rohnerville-Old Rancheria Water Supply Im	426	292	1	11	198	3	1	44	143,000	239,000

Questions